



**TOWN OF HARTFORD
SELECTBOARD AGENDA**

Tuesday, June 29, 2021, 6:00pm

Hartford Town Hall

171 Bridge Street, White River Junction, VT 05001

**This meeting will be conducted in person at Town Hall
Masks for people that have not been vaccinated are required**

The meeting will also be available on Zoom

<https://zoom.us/j/549799933> - Please mute your microphone.

[youtube.com/catv810](https://www.youtube.com/catv810) – click “live now”.

If you're calling in from phone dial:

(415) 762-9988 Type in the Room ID: 549-799-933 followed by #

Press # a second time

Press *9 to raise your hand for public comment

I. Call to Order of the Selectboard Meeting (6:00)

II. Pledge of Allegiance (6:05)

III. Order of Agenda (6:05)

IV. Local Liquor Control Board (6:10)

River Roost Brewery LLC 230 South Main St White River Jct NEW First Class

V. Selectboard

1. Public Comments (6:15)

2. Selectboard Comments and Announcements (6:30)

3. Appointments (6:45)

- a. Consider the re-appointment of Tobias Dayman to the Planning Commission beginning July 29, 2021 and ending July 28, 2024.

4. Town Manager's Report: Significant Activity Report (6:50)

5. Board Reports, Motions & Ordinances:

- a. Climate Action Plan – Climate Action Committee – Information (7:00)
b. Dispatch console – Police – Motion (7:30)
c. Assessment and Grand List Update – Assessor – Information (7:45)
d. Sludge Hauling & Grease Removal – DPW – Motion (8:00)
e. Wastewater Collection Line Cleaning, TV Inspection, and Inspection Reporting – DPW – Motion (8:05)
f. 2022 Dump Truck Bid Award – DPW – Motion (8:10)
g. Invoice Cloud Fees – Town Manager – Motion (8:15)

- h. Covid Committee – Town Manager – Motion (8:30)
- i. Construction Line of Credit – Town Manager for Treasurer— Motion (8:45)
- j. Currier Street Closure – Town Manager – Motion (9:00)
- k. Special Election Warning – Town Manager – Motion (9:15)
- l. Strategic Equity and Inclusion Plan – Selectboard – Information (9:30)

VI Commission Meetings Reports (9:40)

VI Executive Session: N/A

VI Consent Agenda (9:55)

Approve Payroll Ending: 6/26/2021

Approve Meeting Minutes of: 6/15/2021

Approve A/P Manifest of: 6/25/2021 & 6/29/2021

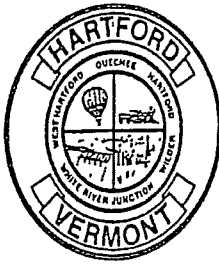
Selectboard Meeting Dates of:

Already Approved: 7/6/2021, 7/13/2021 and 7/27/2021

Approve Date 8/17/21

IX Adjourn the Selectboard Meeting

All Meetings of the Hartford Selectboard are open to the public. Persons who are seeking action by the Selectboard are asked to submit their request and/or materials to the Selectboard Chair or Town Manager's office no later than noon on the Wednesday preceding the scheduled meeting date. Requests received after that date will be addressed at the discretion of the Chair. Citizens wishing to address the board should do so during the Citizen Comments period.



TOWN OF HARTFORD

MUNICIPAL OFFICES

171 Bridge Street

White River Junction, Vermont 05001

Telephone: 802/295-9353 • Fax: 802/295-6382

website: www.hartford-vt.org



Serving the Villages of Hartford ♦ West Hartford ♦ White River Junction ♦ Wilder ♦ Quechee

2021 LIQUOR LICENSE-ADDITIONAL INFORMATION

ALL information must be completed (use separate sheet, if necessary).

Incomplete applications will be returned.

Date: 6/15/21 Applicant: River Roost Brewery
Doing Business As: _____
Mailing Address: 230 South Main St, White River Jct, VT 05001
Telephone Number(s): 802 734-8282
Other Contact Name: (if applicable) MARK BABSON

Please list below ALL licensees, directors, owners, stockholders name & dates of birth: Mark Babson - 2/18/1984

Malt Manufacturer, 4th Class Liquor License, Distribution License, Solicitor License

Please list violations any licensee, director, owner, stockholder has been charged with (See Hartford Liquor Policy for Details). If no violations, please answer "None".

Warning - No Violation

Liquor/Tobacco License Violations (See Hartford Liquor Policy for Details).

(including violations taking place on licensee's premises and/or charges against employee, etc.): If unsure of violations, contact DLC and obtain your records of violations. If no violations, please answer "None".

Warning - No Violation

I/We certify, under pains and penalties of perjury, that the above information is true and complete, and that if after execution of this record any such violations do occur, the Town of Hartford will be duly notified.

M. Blum

Licensee's Signature

MARK BABSON

Printed Name

6/15/21

Date

Licensee's Signature

Printed Name

Date

FIRST/SECOND/THIRD CLASS LIQUOR LICENSE AND TOBACCO APPLICATION

(License year is May 1ST through April 30TH of the following year)

River Roost Brewery, LLC

Print Name of Person, Partnership, Corp., Club or LLC

Doing Business as – Trade Name

230 South Main Street

Street

White River Jct, VT 05001

Town or City & Zip Code

802 734-8282

Telephone Number

Mailing Address (if different from above)

Email address: **mark@riverroostbrewery.com**

APPLICATION FEES:

FIRST CLASS LICENSE - \$115.00 to DLC and \$115.00 to Town/City

SECOND CLASS LICENSE- \$70.00 to DLC and \$70.00 to Town/City

SECOND CLASS RETAIL DELIVERY PERMIT - \$100.00 to DLC

THIRD CLASS LICENSE - \$1,095 for a full year to DLC
\$550 for 6 or fewer months to DLC

TOBACCO LICENSE- (there is no application fee for tobacco if
applying for second class)

TOBACCO ENDORSEMENT PERMIT - \$50.00 to DLC

**If applying for Tobacco only license, please use the Tobacco Only form.*

Please check appropriate categories

☒ FIRST CLASS

☐ SECOND CLASS

☐ THIRD CLASS

☐ TOBACCO

☐ Retail Delivery Permit

☐ Tobacco Endorsement

☐ Restaurant

☐ Hotel

☐ Club

☐ Commercial Kitchen (a Liquor Control Commercial
Caterer's License is needed with this license)

TO THE CONTROL COMMISSIONERS OF THE TOWN/CITY OF Hartford

Application is hereby made for a license to sell malt and vinous beverages under and in accordance with Title 7, Vermont Statutes Annotated, as amended, and certify that all statements, information and answers to questions herein contained are true; and in consideration of such license being granted do promise and agree to comply with all local and state laws; and to comply with all regulations made and promulgated by the Board of Liquor and Lottery. Upon hearing, the Board of Liquor and Lottery may, in its discretion, suspend or revoke such license whenever it may determine that the law or any regulations of the Board of Liquor and Lottery have been violated, or that any statement, information or answers herein contained are false.

MISREPRESENTATION OF A MATERIAL FACT ON ANY LICENSE APPLICATION SHALL BE GROUNDS FOR SUSPENSION OR REVOCATION OF THE LICENSE, AFTER NOTICE AND HEARING.

If this premise was previously licensed, please indicate name Class 4 & Manufacturer - River Roost Brewery, LLC - Current

I/we are applying as (please check one):

☐ INDIVIDUAL

☒ LIMITED LIABILITY COMPANY

☐ PARTNERSHIP

☐ CORPORATION

Please fill in name and address of individual, partners, directors or members.

LEGAL NAME

STREET/CITY/STATE

Mark Babson - 2002 Goshen Road, Bradford, VT 05033

Are all of the above citizens or lawful permanent residents of the UNITED STATES? ☒ Yes ☐ No

If naturalized citizen or lawful permanent resident of the United States, please provide a copy of the naturalization or lawful permanent resident documentation.

CORPORATE INFORMATION:

If you have checked the box marked CORPORATION, please fill out this information for stockholders (attach sheet if necessary).

LEGAL NAME

STREET/CITY/STATE

River Roost Brewery, LLC - 230 South Main Street, White River Jct, VT 05001

Date of incorporation 4/14/15

Is corporate charter now valid? Yes ☒ No ☐

Corporate Federal Identification Number 47-3783088

Have you registered your corporation and/or trade name with the Town/City Clerk? Y ☐ N ☐ and/or Secretary of State? Y ☒ N ☐
(as required by VSA Title 11 § 1621, 1623 & 1625).

ALL APPLICANTS

HAVE ANY OF THE APPLICANTS EVER BEEN CONVICTED OR PLED GUILTY TO ANY CRIMINAL OR MOTOR VEHICLE OFFENSE IN ANY COURT OF LAW (INCLUDING TRAFFIC TICKETS) AT ANY TIME? ☐ YES ☒ NO

If yes, please complete the following information: (attached sheet if necessary)

Name	Court/Traffic Bureau	Offense	Date

Do any of the applicants hold any elective or appointive state, county, city, village/town office in Vermont? (See VSA, T.7, Ch. 9, §223)
If yes, please complete the following information:

Name	Office	Jurisdiction

Please give name, title and date attended of manager, director, partner or individual who has attended a Liquor Control Licensee Education Seminar, as required by Education Regulation No. 3:

Name: Mark Babson
Title: Owner
Date: July 18, 2019

If you have not attended an Education Seminar prior to making application, please visit www.liquorcontrol.vermont.gov and click on Seminar Schedule for a list of Seminars in your area.

FOR ALL APPLICANTS: DESCRIPTION /LOCATION OF PREMISES (Section 4)

Description of the premises to be licensed: Outdoor tent area and indoor tasting room

Does applicant own the premises described? YES ☒ NO ☐ If not owned, does applicant lease the premises? YES ☐ NO ☐

If leased, name and address of lessor who holds title to property: _____

Are you making this application for the benefit of any other party? YES ☐ NO ☒

FIRST CLASS APPLICANTS ONLY: No first-class license may be issued without the following information.

HEALTH LICENSE #: Food NA - VT H.313 - July 1st Lodging (if licensed as a Hotel) _____

VERMONT TAX DEPARTMENT: Meals & Rooms Certificate/Business Account# MRT-10082819

Business is devoted primarily to (please check one):

☐ **FOOD (restaurant)** ☐ **HOTEL** ☐ **CLUB** ☐ **COMMERCIAL CATERING**

If you are considering **Outside Consumption** service on decks, porches, cabanas, etc. you must complete an Outside Consumption Permit. This form can be found on our website at www.liquorcontrol.vermont.gov and then click on licensing and then forms.

ALL APPLICANTS MUST COMPLETE AND SIGN BELOW

The applicant(s) understands and agrees that the Board of Liquor and Lottery may obtain criminal history record information from State and Federal repositories prior to acting on this application.

I/We hereby certify, under pains and penalties of perjury, that I/We are in good standing with respect to or in full compliance with a plan approved by the Commissioner of Taxes to pay any and all taxes due the State of Vermont as of the date of this application. (VSA, Title 32, §3113).

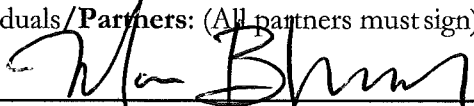
In accordance with 21 VSA, §1378 (b) I/We certify, under pains and penalties of perjury, that I/We are in good standing with respect to or in full compliance with a plan to pay any and all contributions or payments in lieu of contributions due to the Department of Employment and Training.

If applicant is applying as an individual: I hereby certify that I/We are not under an obligation to pay child support or that I/We are in good standing with respect to child support or am in full compliance with a plan to pay any and all child support payable under a support order. (VSA, Title 15, §795).

Dated at 06/14/2021 in the County of Windsor and State of VT,
this 14th day of June, 2021

Corporations/Clubs: Signature of Authorized Agent

Individuals/Partners: (All partners must sign)


MARK BABSON - OWNER

TOWN/CITY APPROVAL/DISAPPROVAL

Upon being satisfied that the conditions precedent to the granting of this license as provided in Title 7 of the Vermont Statutes Annotated, as amended, have been fully met by the applicant, the commissioners will endorse their recommendation on the back of the applications and transmit both copies to the Board of Liquor and Lottery for suitable action thereon, before any license may be granted. For the information of the Board of Liquor and Lottery, all applications shall carry the signature of each individual commissioner registering either approval or disapproval. Lease or title must be recorded in town or city before issuance of license.

_____, Vermont, _____
Town/City Date

APPROVED

DISAPPROVED

Please check one: ☐ Approved ☐ Disapproved

by the Board of Control Commissioners of the City or Town of _____

Total Membership _____ Members present _____

Attest, _____
City or Town Clerk

TOWN OR CITY CLERK SHALL MAIL ONE APPLICATION DIRECTLY TO THE DIVISION OF LIQUOR CONTROL, 13 Green Mountain Drive, Montpelier, VT 05602. If application is disapproved, local control commissioners shall notify the applicant by letter.

No formal action taken by any agency or authority of any town board of selectmen or city board of aldermen on a first or second-class application shall be considered binding except as taken or made at an open public meeting. VSA Title 1 §312.

SECTION 5111 AND 5121 OF THE INTERNAL REVENUE CODE OF 1954 REQUIRE EVERY RETAIL DEALER IN ALCOHOLIC BEVERAGES TO FILE A FORM ANNUALLY AND PAY A SPECIAL TAX IN CONNECTION WITH SUCH SALES ACTIVITY. FOR FURTHER INFORMATION, CONTACT:

**THE BUREAU OF ALCOHOL, TOBACCO & FIREARMS (TTB)
DEPARTMENT OF THE TREASURY
550 MAIN STREET, CINCINNATI, OH 45202
(513) 684-2979**

NOTICE: All new applications are investigated by the Enforcement and Licensing Division prior to approval/disapproval of the license by the Board of Liquor and Lottery. Please note that this process can take anywhere from 2 weeks to 6 weeks to complete once Liquor Control receives the application.

**Personal Information Form
To Accompany License Applications**

Complete for all Owners, Partners, or Corporate Officers

Legal Name: Mark Babson

Telephone: 802 734-8282 Email: mark@riverroostbrewery.com

Address: 2002 Goshen Road, Bradford, VT 05033
Street City/Town State Zip Code

Date of Birth: 02/18/1984 Place of Birth: Burlington. VT Gender: Male

Drivers License #: 31968615 State: VT

Legal Name: _____

Telephone: _____ Email: _____

Address: _____
Street City/Town State Zip Code

Date of Birth: _____ Place of Birth: _____ Gender: _____

Drivers License #: _____ State: _____

Legal Name: _____

Telephone: _____ Email: _____

Address: _____
Street City/Town State Zip Code

Date of Birth: _____ Place of Birth: _____ Gender: _____

Drivers License #: _____ State: _____

Use additional forms if necessary.

Send completed form with application to:

Vermont Department of Liquor and Lottery
Division of Liquor Control
Attention: Licensing
13 Green Mountain Drive
Montpelier, VT 05602

Phone (802) 828-2345
FAX (802) 828-1031
Email DLC.EnfLic@vermont.gov

Confidential

Rev. 08/09//2019

OUTSIDE CONSUMPTION PERMIT

Application Fee \$20.00

Name of Licensed Premise (Corporation/Partnership/Individual, d/b/a)

River Roost Brewery, LLC

d/b/a

Address 230 South Main Street

Town/City White River Jct

License Number 8826-001 & 8826-002

Email or Fax # mark@riverroostbrewery.com

Outside consumption would be in the area described below: (describe fully, including size, physical barriers, etc.)

The large evealed grass area between the brewery building at 230 South Main Street and South Main Street. There is roughly a 20ft x 60ft space defigned by a hedge row and large rocks. I would like to put a tent in this area, create consumption barriers with access at the brewery overhead door.

* The tent setup would be temporary but a building expansion will include a patio to be completed by Spring *

Please remember that this outside consumption permit is an extension of your license to serve alcohol beverages, and that the same rules apply in this area as do in the regularly licensed premise area.

Outside Consumption time period (hours) from 11 am to 10pm

Permanent Use ☒ (Permanent use will be considered year round use)

Occasional Use

Day(s) Requested

Hours Requested

Signature of Licensee

 - **MARK BABSON**
OWNER

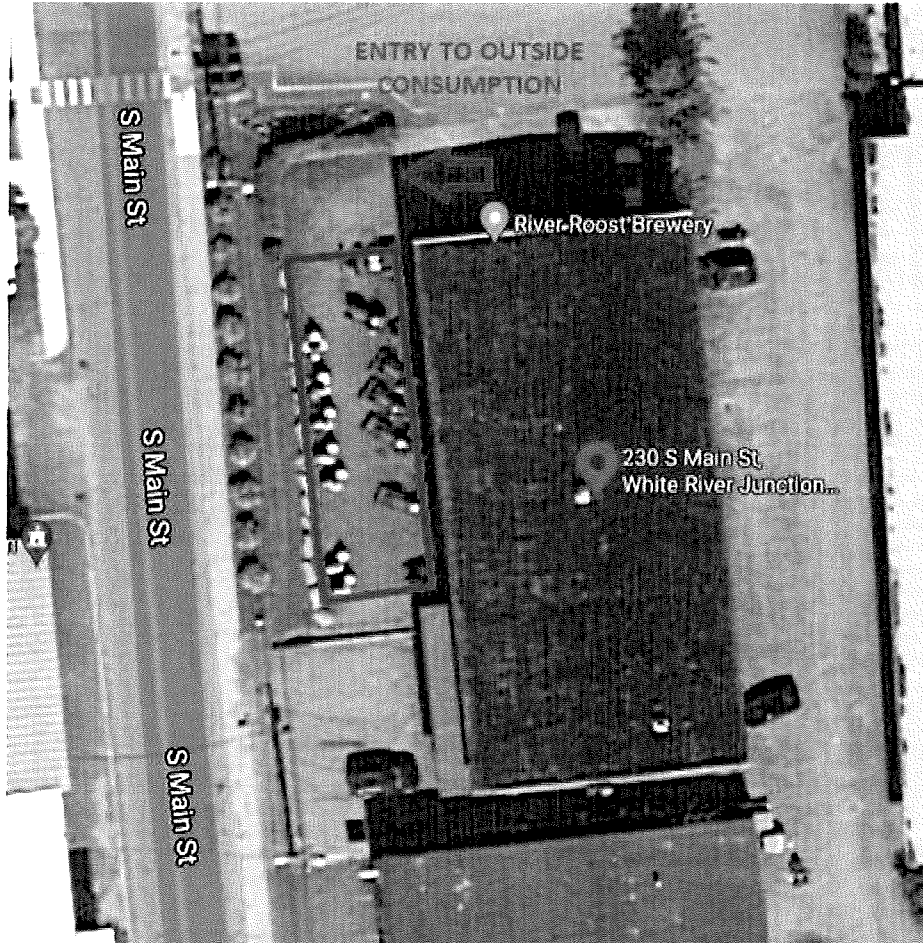
OUTSIDE CONSUMPTION PERMITS MUST FIRST BE APPROVED BY YOUR TOWN/CITY CLERK

Please check one: ☐ **APPROVED** ☐ **DISAPPROVED**

Town/City Clerk Signature

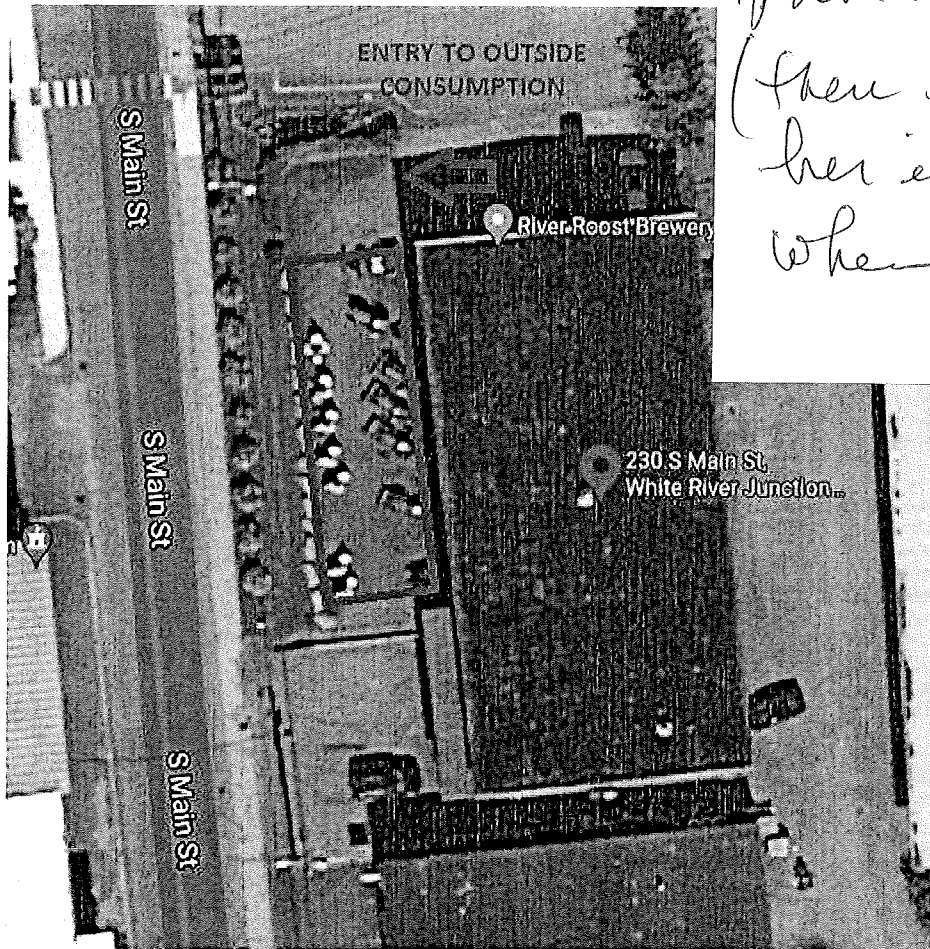
Date

River Roost Brewery - Proposed Outside Consumption Area



I'd like to put a tent on the elevated flat green space pictured above. There is a natural barrier with the hill, rocks, and hedge that would be labeled with "no beverages past this point". I'd make the entry to the outside consumption area between the hedge and the building as pictured above (where the grain totes are pictured).

River Roost Brewery - Proposed Outside Consumption Area



Ashed have to
print in color
Apple ppt
(then scan to
her in color)
when HPD + HFD
reply



I'd like to put a tent on the elevated flat green space pictured above. There is a natural barrier with the hill, rocks, and hedge that would be labeled with "no beverages past this point". I'd make the entry to the outside consumption area between the hedge and the building as pictured above (where the grain totes are pictured).

Inspection Summary

Hartford Fire Department

Inspection 4941



Inspection

Type Liquor License
Status Pending
Inspector Thomas Peltier
Unit Number HFM3
Shift FM

Scheduled 06/21/2021 10:00
Inspected On 06/21/2021 10:00
Finished At 06/21/2021 11:00
Next Inspection
Scheduled Peltier
Inspection Length 1.00

Occupant

Occupant Name River Roost Brewery
Building Name Outdoor Event Area - Assembly
Contact Name Mark Babson
Address 230 S MAIN ST
City, State and Zip White River Junction, VT 05001-
Phone 802-734-8282

Owner

Owner / Company River Roost Brewery LLC
Contact Name Mark Babson
Address 230 South Main Street
City, State and Zip White River Junction, VT 05001-
Phone 802-734-8282

Comments

Please contact me by phone 802-299-7013 or by email at tpeltier@hartford-vt.org when site plan is completed.

Violation Summary

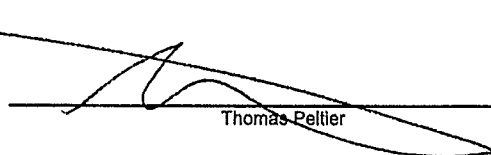
Status	Violation	Location
Hold	- Liquor License Inspection Outdoor Event Area - Assembly - Proposed area for review shall have a final inspection and be approved by the Hartford Fire Marshal upon completion.	Outdoor Event Area

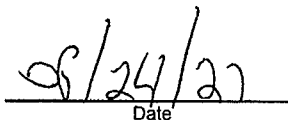
Tickler History

Date	Type	Inspector	Narrative
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Signatures

Inspector


Thomas Peltier


Date

Hartford Police Department

Memo



To: Lisa O'Neil, Sherry West

From: Deputy Chief Braedon S. Vail

CC:

Date: June 15, 2021

Re: Liquor Licenses

The following establishment and subsequent person(s) listed on the application have been checked through the Hartford Spillman RMS system as well as the Vermont Spillman RMS system. This check did not reveal any recent activity that would negatively impact their respective application.

River Roost Brewery, LLC
230 South Main St

Mark Babson

From: tobiasdayman@gmail.com
To: [Lana Livingston](#)
Cc: [Jo-Ann Ells](#)
Subject: FW: PC Appointment
Date: Tuesday, June 8, 2021 9:30:28 AM

[**EXTERNAL EMAIL: DO NOT CLICK** on **links** or open **attachments** unless you are sure the content is safe.]

Lana:

I see I am up for reappointment for the Planning Commission, which is acceptable to me. Please let me know if you need anything from my end.

Toby

Tobias Dayman
PO Box 1487
Quechee, VT 05059-1487
t: 802-296-6934
e: tobiasdayman@gmail.com

From: Jo-Ann Ells <jells@hartford-vt.org>
Sent: Tuesday, May 25, 2021 5:57 PM
To: Toby Dayman (tobiasdayman@gmail.com) <tobiasdayman@gmail.com>
Cc: Lana Livingston <llivingston@hartford-vt.org>
Subject: PC Appointment

Hi Toby,

Hope you are doing well!

Your appointment to the Planning Commission is up on July 30th

If you want to be reappointed (I hope you do!) then you just need to let Lana know. (She is copied here)

Take care,
Jo-Ann

Jo-Ann Ells
Zoning Administrator
Department of Planning & Development
Town of Hartford, Vermont
171 Bridge Street

White River Junction, VT 05001
P: 802-295-3075; F: 802-295-6382
Visit us at www.hartford-vt.org

Please note that any response or reply to this electronic message may be subject to disclosure as a public record under the Vermont Public Records Act.

In compliance with Vermont's COVID-19 stay-at-home requirement, Town of Hartford staff members are working remotely. Addressing residents' and businesses' concerns and questions remains a high priority. We appreciate your patience as we adapt to virtual communications.

Please note that any response or reply to this electronic message may be subject to disclosure as a public record under the Vermont Public Records Act.



This email has been checked for viruses by Avast antivirus software.
www.avast.com

To: Town of Hartford Selectboard
From: Tracy Yarlott-Davis, Town Manger
Meeting Date: June 29, 2021
Subject: Town Manager Report

Speed Study Completed

Two-Rivers-Ottawaquechee Regional Planning Commission performed a speed study on Quechee Main Street and Summer Street between June 3, 2021 and June 15, 2021. The study uses automatic traffic counters which can record traffic volume, direction of traffic, speed, and classification of the vehicle.

The average daily volume for Quechee Main is 4,601 vehicles, which indicates that Quechee Main is a high volume road. For Summer Street the average daily volume was 226 – which is considered a low volume road.

The speed study showed that the 85th percentile of vehicles traveling on Quechee Main Street road are going at (25 miles per hour), or slightly above (32 miles per hour), the speed limit. For Summer Street, the 85th percentile is 25 miles per hour, which is the speed limit. The Federal Highway Administration uses the 85th percentile as a criteria for setting speed limits and determining the need for traffic calming solutions.

The speed study allows us to better understand how people are using the roads and if there's a need to further investigate traffic calming or speed mitigation techniques. Right now, since it's within the 85 percentile parameters, we will not attempt any additional traffic calming or mitigation on these roads.

Christian Street Cemetery

On Thursday morning, the Town will officially take over the administration of the Christian Street cemetery. Technically, it's the Selectboard that is authorize to sell and convey lots in burial grounds but at this time, the administration can reside in my office.

My staff has completed an initial review of the current processes and identified areas where we need to develop procedures or clarify the process with Henry Hazen, who has administered the cemetery for a number of years.

In order to ensure that we are in compliance with state regulations, my staff will be continuing to develop policies and procedures to govern the Town's administration of the Christian Street cemetery, including accounting for services and perpetual care, maintaining records, and how to assist those purchasing or using plots. Another item my staff is researching is mapping and database systems that will allow us to have more complete and searchable records. I anticipate that we will be bringing some of these items forward as part of the FY23 budget.

Homeless Encampment Clean-Up

Barring any unforeseen staffing issues, our contractor will be mitigating both sites the week of June 28, 2021. The total costs depends on how much waste they remove as we are charged by the amount and then time to dispose of it at the Lebanon Solid Waste facility. *South Main Street Lot*: This one is on Town property and we will be removing all debris and temporary structures. *Prospect Street*: I was corrected by my amazing staff. Thank you team Hartford! VTrans has remained generally unhelpful and non-communitive on cleaning their property. Some of the biohazard waste is on VTrans and other is on private property. Since we have the contractor coming, we're going to go in and remediate all the health and safety hazards. That includes food waste, standing water, anything that may include biohazards. If it looks like what we remediated is on VTrans property, we will document it and reengage with VTrans. Ultimately, we need to get this cleaned up and they are making it harder. I haven't been down there since it got warm, but we all know how wet and hot trash begins to smell and attract vermin.

I'm working with my staff and connecting with our community-based organizations to make sure this is not a regular issue.

New Town Website – Kick Off

I've opened an internal Website Team with representatives from Parks and Recreation, Public Works, IT, and my office to work with our vendor, Revize, on a new Town website. The entire project deadline takes about six months and staff will be providing feedback on the site map, style mock-ups, and participating in training. I'm especially excited with how clearly laid out the back-end of the website is, which will make it easier for staff to update the site. Revize also offers staff training, online support, and tutorial videos.

Significant Activity Report

June 15 to June 29, 2021

Parks & Recreation Program and Park Highlights

- Summer Camp Ventures is off to a great start with 80 campers total with 40 Campers at each site. Councilors and CIT's (Councilors in Training) bring the total on campus population to just over 100. The camp took field trips to Silver Lake and VINS with each being a huge success. Friday Fun Day at Maxfield is back and campers are loving it!
- Summer Concert Series performance on June 16th with Never Too Late was well attended with just under 100 participating. The Kapps performed on June 23rd.
- Our first Movie in the Park was held on June 11th featuring the Croods New Age. There was over 100 in attendance. The next movie will be held at the West Hartford Library on Friday, June 25. The movie will be a collaboration with the Hartford Community Coalition and West Hartford Library.
- Summer baseball started with 29 players. Hartford will have two teams.
- Members of the Pool Review Group met at the pool for a site tour on June 16th to see the pools progress. The Department sends out weekly updates on the pool. Most of the site conditions for the pool floor is complete and getting ready for rebar. The pool walls are being framed in for the gunite application.
- The Tree Board met in person for the first time since the pandemic. They are busy with the oversite of Emerald Ash Borer treatments of Ash Trees in Veterans and Ratcliffe Park.
- The Park Crew continues to maintain our facilities with mowing, trimming and general maintenance. Over the past two weeks the park use included 36 permits with 520 hours of usage which included the State of Vermont Cal Ripken Regional Baseball Tournament held at Maxfield. The tournament continues through the weekend and ends June 27th.

Finance Department

1. 2021 Fiscal Year End Close Out
 - a. Provided close out checklist to staff and board chair
2. Providing list of items to Town Manager required to close out fiscal year 2021 and open fiscal year 2022
 - a. Encumbrance requests & reviews
 - b. Tax Rate Setting & Special Check Run
 - c. Construction Line of Credit renewal with assistance by Town Treasurer John Clerkin
 - d. American Recovery training for board

- e. Vermont Bond Bank Presentation on Debt Benchmark to board
 - f. Invoice Cloud Fees
 - g. Budget Cycle FYE 2022
3. Prepared & Distributed May Financials
 4. May Bank reconciliations
 5. Opening new fiscal year 2022
 6. Preparing for generation and distribution of tax bills in July
 7. Assisting Department Heads in project funding guidelines and steps

Assessor

- Grievance period ended June 16th
- Scheduled and Conducted grievance hearings
- Conducted property inspections associated with grievances
- Reviewed grievance documents and developed value opinions
- Continual entry of permit information for the 2022 Grand List
- Continual processing of homestead declarations
- Attended Axiomatic software input sessions

Police Department

The police department has begun the process of ordering two new vehicles for the next fiscal year budget, one marked police cruiser and one administrative car which will be a hybrid vehicle.

Police Officer Joshua Reyes left the department and moved out of the area to pursue education in his interest of computer coding.

To address staffing issues in the interim, two detectives began working 12-week rotating assignments covering patrol.

Officers received annual legal update training from the Windsor County State Attorney's Office.

Officers participated in the funeral service for retired Hartford Police Sergeant Thomas Lyman

During this reporting period, the department handled 335 incidents with 17 arrests. The breakdown is as follows:

Animal Problem – 7

Arrest on Warrants – 3

Assault – 1

Citizen Dispute – 5

Death Investigation – 1

Disorderly Conduct – 3

DLS – 3

Domestic related – 1

Drug Possession – 4

DUI – 2

Larceny – 5

Motor Vehicle Disturbance – 3

Noise Disturbance – 1

Suspicious Person or Circumstance – 20

Traffic Accident – 5

Trespassing – 2

Vandalism – 4

All other – 265

Town Clerk

The Clerk's office has been busy processing the continued high volume of recording; preparing for the upcoming Special Election; processing Liquor License applications for Special Events/Request to Cater as well as a few NEW applications; as well as assisting the public with various requests (and, welcoming them back into the building for in-person service) including preparing marriage licenses, DMV renewals, issuing Green Mountain Passport; records research and more.

Fire Department

1. The fire departments calls for service are now connected to CityProtect by Motorola. Now Police/Fire/EMS emergencies are posted to the Town map display. You can access CityProtect at : <https://cityprotect.com/agency/hartfordvt>
2. Fire Department members are completing Phase 2 of their annual Fit for Duty evaluations at APD-Occupational Health.
3. Participated in the planning process for July 4th Fireworks at Kilowatt
4. The Fire Prevention Office completed a temporary CO inspection at 132 South Main. The Southblock Apartments have occupancy on floors 5, 4 and 3. The remaining floors are continuing the finishing process.
5. The department responded to 110 calls for service during this period.

Public Works

Our Water Department has started to replace the problematic water line on West Gilson Avenue ahead of paving.

Our Highway Department has been busy with roadside mowing and assisting with the West Gilson Avenue project as needed.

The Quechee Wastewater team has been diligently researching internet replacement (to more capably support our needs) and finishing the work at the Mill Run Pump Station.

The White River Wastewater team has been dedicated to eliminating the plugs in our Bridge Street Pump Station this week.

Department of Planning and Development

- Upper Valley semi-annual Housing Solutions Meeting – Matt Osborn was one of five presenters for a discussion of example solutions identified in the “Keys to the Valley” housing report. Matt spoke about recent changes to Hartford’s Zoning regulations to add residential uses to some commercial zoning district.
- Town Forest Trails Day - On Saturday, June 19th, 30 Hartford volunteers joined together to make needed improvements to bridges and trails. Thank you to Tim Schaal who donated several hours of time to help prepare the day so other volunteers could jump in and get right to work.

- Property Development – Continued being a busy two weeks responding to inquiries related to improvements to properties, reviewing and processing permits, and issuing permits and Certificates of Occupancy.
- Climate Action Plan – Lots of work was done over the past two week by the Climate Advisory Committee, the Consultant, Hartford volunteers and staff on reviewing, and preparing the draft Plan for presentation and discussion at the June 29th SB meeting.
- Reviewed and provided information for closeout of Fiscal Year 2021.



AGENDA MEMORANDUM
June 29, 2021
Town Selectboard Meeting Item: 5a

Submitted By: Tracy Yarlott-Davis, Town Manager

Subject: Climate Action Plan Overview and Update

Background:

In December of 2019, the Selectboard and School Board voted unanimously to pass a Joint Resolution Declaring a Climate Emergency (“the Resolution”). By declaring an emergency, the Resolution makes climate change a defining focus for Town planning, funding, and action, and resolves the Town to achieve net-zero greenhouse gas (GHG) emissions town-wide by 2030, while ensuring the response is “just and equitable, especially with respect to the most vulnerable and impacted members of society.” The Resolution led to pursuing development of a plan that “identifies action steps in response to the climate emergency and explains how progress will be tracked and measured”. In March of 2020, Hartford voters passed Article 25, requiring the development, operation, and maintenance of the Town’s municipal infrastructure and equipment achieve carbon neutrality by 2027. The Town budgeted \$30,000 in FY 2021 to hire a consultant to develop an action plan for achieving these goals. In September of 2020, the Selectboard contracted with paleBLUEdot (pBd) to assist the Town in the plan development.

Discussion:

The Climate Advisory Committee, pBd, Town staff and many community members have been working diligently for the past several months to gather and analyze data, and translate this information into goals, strategies and actions. Erik Krauss, Chair of the Climate Advisory Committee, and Ted Redmond from pBd, will provide the draft plan (see attached), and next steps.

Financial Impact:

The financial impact of the plan varies widely for both short- and long-term costs, as well as considerations for the long term impacts of environmental sustainability in our community

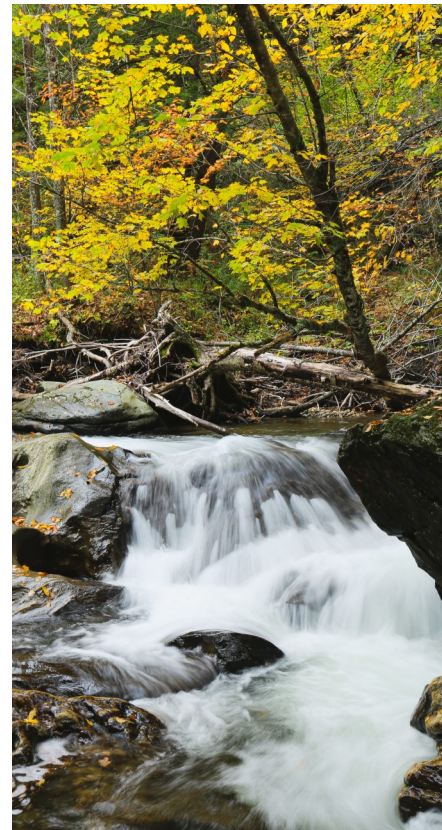
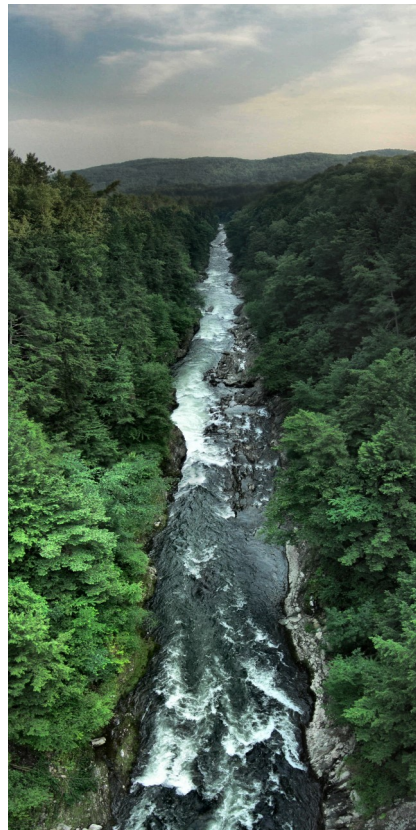
Action Requested:

Information Only. The final plan will go before the Board for approval in late August 2021.

Attachments:

Hartford Climate Action Plan and Public Review Comment Summary

Town of Hartford Climate Action Plan



Hartford

Vermont



June 23, 2021

Prepared by:



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Carbon Neutral Pathways and Strategic Goals

Climate Vulnerability Assessment

Community Wide GHG Inventory

Community Wide Solar Energy Potentials Study

Appendix 4 **Cumulative Potential Cost Savings Assumptions**

Hartford's Future Climate

By 2050, Hartford's climate can be expected to be:



+3-5°F

warmer average annual temperature than now.



+5-10 more days

annually with a high temperature over 95°F.



+25% more

air conditioning demand and energy needed than now.



+8% higher

annual average rainfall than now.



+15% more

Heavy precipitation events annually.



+20-25 days longer

growing, allergy, and mosquito season.

The time is right for Hartford's first
Climate Action Plan.

Executive Summary

The Town has been dedicated to climate and energy issues for many years, and its focus on these topics has become increasingly strong in recent years. In 2007, Hartford became one of the first towns in the State of Vermont to form an Energy Commission, dedicated to reducing energy consumption and increasing Hartford's share of renewable energy. In 2019 as part of a Town Plan update, the Town completely overhauled its Energy Chapter to create a plan to meet or exceed the State of Vermont's energy goals and achieved a Determination of Energy Compliance from the Two-Rivers Ottauquechee Regional Commission (TRORC).

In October 2020, the Town of Hartford engaged paleBLUEdot for the development of a Climate Action Plan outlining strategies and actions to support achieving Carbon Neutral for Town of Hartford Municipal Operations emissions as well as Town-Wide emissions. This report plan is the result, developed in collaboration with the Town's Climate Action Planning Team.

Our Challenge

The complex systems that make up modern civilization result in stressors on the delicate balance of our ecosystems. The combustion of fossil fuels is warming earth's atmosphere and changing our climate. Climate change is already affecting Hartford and its impacts are projected to become much more severe in the coming decades. These impacts also contribute to additional strain on vulnerable populations, social systems, and overall community resilience.

Our Opportunity

Transformation of our energy system is essential in order to stop burning fossil fuels. This transition presents an opportunity for Hartford. Directing our energy investments into renewable sources will make them more resilient and provide for local job creation. Innovation, technology, and collective social change inherent in climate action can also support greater community abundance and shared equity.

Hartford CAP Guiding Principals:

The Climate Advisory Committee established guiding principals by which the development and implementation of the Climate Action Plan are to be evaluated:

- The impact on the 7th generation, the wellbeing of people worldwide, and the health of the planet; and
- Leaving our community and the world better than we found it; and
- Fostering innovation and creativity; and acting in ways that respect the most vulnerable and impacted members of our society.

The Process

The work that went into developing the Hartford Climate Action Plan

8 month
planning timeframe

32
planning team
members

4
foundational research
study documents



Executive Summary

GHG Emission Reduction Goal in Global Context

Reviewing the Town's Climate Action Plan emissions reduction goal within a global context can help validate the appropriateness of the goal. The International Panel on Climate Change (IPCC) is the United Nations Environment Programme (UNEP) body for assessing the science related to climate change and providing support in climate action policy making. IPCC science has guided a number of international agreements to address climate change, most recently the Paris Agreement.

The Paris Agreement is a landmark international accord that was adopted by nearly every nation in 2015 to address climate change and its negative impacts. The agreement affirms IPCC recommendations by aiming to limit global warming to 1.5°C to 2°C above pre-industrial levels, considered to be the threshold for dangerous climate impacts. The agreement includes commitments from all major emitting countries to cut their climate pollution and to strengthen those commitments over time.

Our Carbon Reduction Goal

The Hartford Selectboard and School Board formed the Ad-Hoc Climate Advisory Committee in 2019 and subsequently voted unanimously to pass a Joint Resolution Declaring a Climate Emergency, making climate change a defining focus for Town planning, funding, and action. The action resolves that:

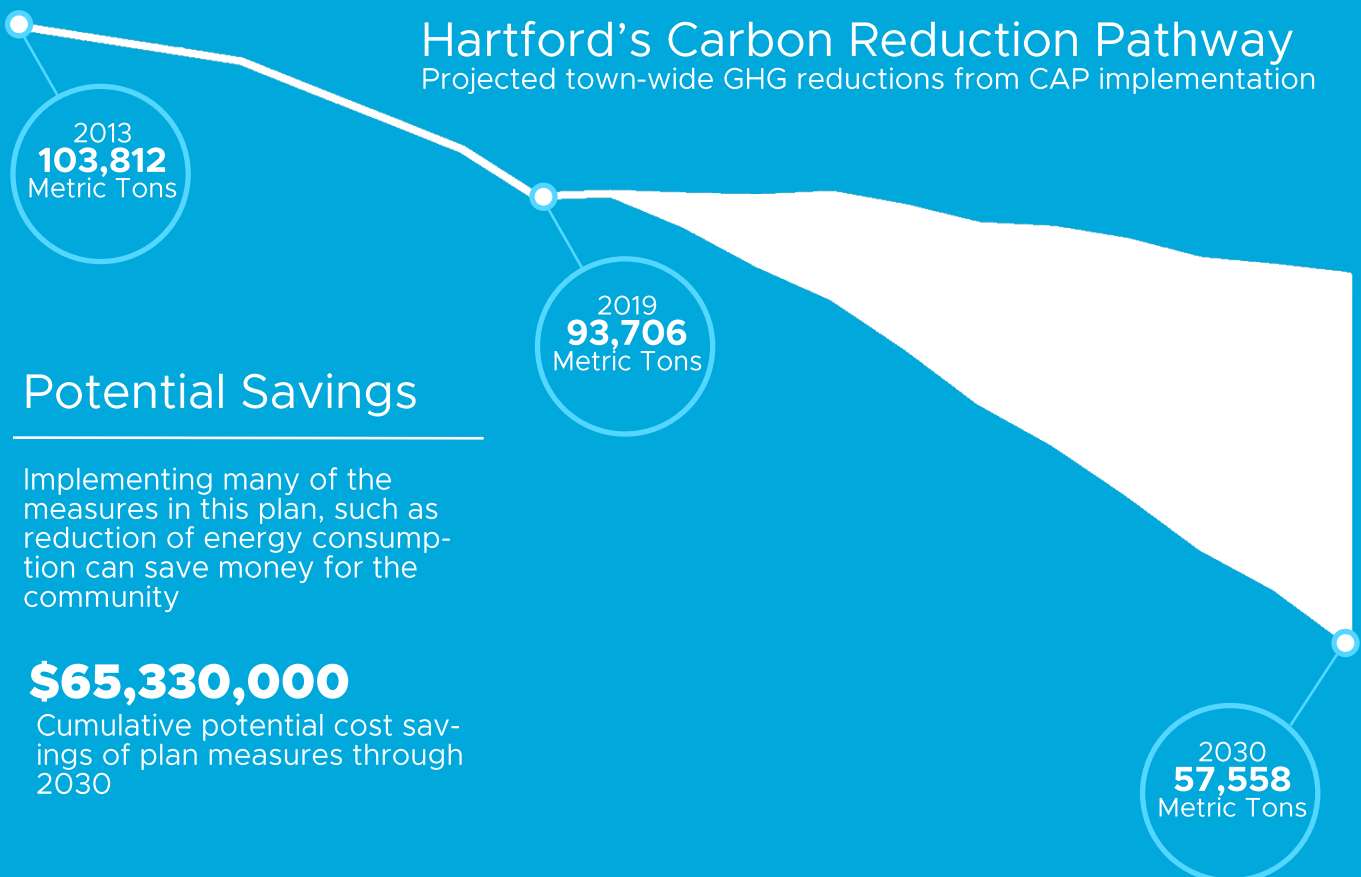
The Town shall achieve net-zero greenhouse gas (GHG) emissions town-wide by 2030 and that "Hartford's response to the climate emergency be just and equitable, especially with respect to the most vulnerable and impacted members of society."

Following the passage of the Resolution, an additional ballot resolution ("Article 25") passed with 65% of the vote, requiring the Town to lead by example and that:

The operation and maintenance of the Town of Hartford's municipal infrastructure and equipment shall achieve carbon neutrality by 2027.

Hartford's Carbon Reduction Pathway

Projected town-wide GHG reductions from CAP implementation



Executive Summary

Climate Action Plan as Living Plan

This Climate Action Plan is intended as a “living plan” rather than a static document. This means that the implementation phase of this plan should be characterized by intermittent measurement of progress and plan adjustments. Plan adjustments should look towards increasing implementation goals for actions which illustrate success, modify goals for actions which may fall short of desired outcomes, and identifying additional action opportunities.

As a “living plan,” the 2030 emission reduction goal should be seen as a guiding constant and recognition should be given that initial implementation actions may not yet fully achieve plan goals. Intermittent plan progress measurements and adjustments should identify additional actions, or increases in action implementation targets as needed to meet the ultimate 2030 GHG reduction goal.

Next Steps and Implementation

This Hartford Climate Action Plan is only the beginning of an on-going process of evaluating and advancing the Town’s climate resilience, GHG emissions reductions, and overall sustainability. The plan includes a Climate Action Implementation section providing a framework for launching, guiding, monitoring, and evaluating the execution of this plan. The implementation section outlines specific next steps, and important implementation considerations and recommendations. As details and outcomes are uncovered during the implementation phase, adjustments to quantitative goals, milestones, and detailed actions will be made responsively.

The Plan

The Hartford Climate Action Plan:

addresses **9 sectors**
of GHG emissions and
climate vulnerabilities

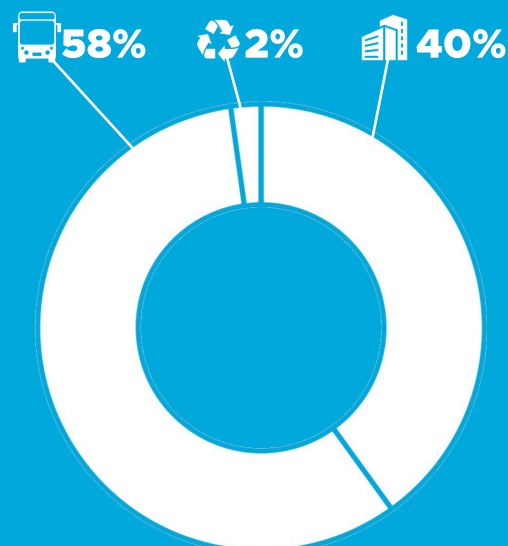
through **37 strategies**
addressing climate
goals

supported by **176 actions**
detailing steps to be
taken

during a **9 year**
implementation
timeframe

Reduction Share by Sector

Share of Total 2030 Reductions of
Climate Action Plan actions by Sector:



Acknowledgements

We are deeply grateful for the community collaboration and input that went into this plan. Below are some of the main contributors that made Hartford's first CAP possible:

Town of Hartford Project Leads

Erik Krauss	Hartford Climate Advisory Committee, Chair
Lori Hirshfield	Town of Hartford, Director, Planning and Development

Selectboard Members

Dan Fraser, Chair
Joe Major, Vice-Chair
Rachel Edens
Kim Souza
Ally Tufenkjian
Julia Dalphin
Dennis Brown

Community Climate Action Planning Team

Ashley Andreas	Vermont	Kyle MacLaury	Resident, Solution Architect, Landis + Gyr
Ariel Arwen	Hartford Energy Committee	Meg MacLaury	Resident, Hartford Highschool
Liane Avery	Sustainable Lebanon	Ron McGarvey	Vermont Interfaith Power and Light
Jon Bouton	Conservation Commission, Resident	Ana Mejia	Hartford Climate Advisory Committee
Jennie Chamberlain	Hanover Bike/Ped Committee	Cynthia Monroe	Wilder Resident, Dartmouth College Lecturer
Rachel Edens	Selectboard, Liason to Hartford Climate Advisory Committee	Matt Osborn	Town of Hartford, Assistant Zoning Administrator and Planner
Alice Ely	UV Public Health Council	Rebecca Owens	Planner for City of Lebanon
Lucas Gilbert	Climate Advisory Committee	Laura Perez	Special Needs Support Center
Linda Gray	Norwich Energy Committee	John Reid	Planning Commission, Vice Chair
Carolyn Hooper	Executive Committee of the Upper Valley Sierra Club chapter, Resident	Bruce Riddle	Planning Commission, Chair
Mary Hutchins	Resident, Conservation Commission	Laura Simon	Resident, member: Resilient Hartford Committee
Ralph Hybels	Hartford Resident, Owner of Leadership in Medicine, Inc	Molly Smith	Energy Commission, Chair
Karl Kemnitzer	Sierra Club, VBike	Jack Spicer	Hartford Climate Advisory Committee
Toby Kravitz	Resident	Liz Storn	Wilder resident, University of Florida Office of Sustainability
Aaron Lamperti	Norwich Energy Committee	Courtney Williamson	Hartford Climate Advisory Committee, Vice Chair

Section 01

Introduction



[Click here to
return to TOC](#)





GHG Emissions

generated community-wide
in Hartford



46,470

Metric tons CO₂e in 2019
from vehicle use.



45,810

Metric tons CO₂e in 2019
from building energy.



1,009

Metric tons CO₂e in 2019
from solid waste



446

Metric tons CO₂e in 2019
from water and wastewater

Introduction

Hartford, Vermont is located at the confluence of the White and Connecticut Rivers and includes a third river, the Ottauquechee. Hartford is part of a thriving Upper Valley region. The quality of life, jobs, and a well-managed Town with abundant educational, recreational and cultural resources are some of the assets that draw people and businesses to the Town. What makes Hartford special is shaped in part by its rich history and its ability to adapt to changing conditions over time. The Town was established by Charter in 1761 as an agricultural community with several settlement areas. Today, the Town is principally comprised of five Towns (White River Junction, Wilder, Quechee, West Hartford and Hartford Town) each with its unique character and identity, heritage and a strong sense of place.

The Town has been dedicated to climate and energy issues for many years, and its focus on these topics has become increasingly strong in recent years. In 2007, Hartford became one of the first towns in the State of Vermont to form an Energy Commission, dedicated to reducing energy consumption and increasing Hartford's share of renewable energy. In 2019 as part of a Town Plan update, the Town completely overhauled its Energy Chapter to create a plan to meet or exceed the State of Vermont's energy goals and achieved a Determination of Energy Compliance from the Two-Rivers Ottauquechee Regional Commission (TRORC).

In October 2020, the Town of Hartford engaged paleBLUeDot for the development of a Climate Action Plan outlining strategies and actions to support achieving Carbon Neutral for Town of Hartford Municipal Operations emissions as well as Town-Wide emissions. This report plan is the result, developed in collaboration with the Town's Climate Action Planning Team.

In support of establishing the goals, strategies, and actions included in this plan, paleBLUeDot also produced a Greenhouse Gas Inventory, a Climate Vulnerability Assessment, a town wide Solar Renewable Energy Potentials Study, and a town wide Carbon Neutral Pathways and Strategic Goals recommendations report. These assessments created the foundation of the Climate Action Planning process.

Why Create a Climate Action Plan

The creation and dedicated implementation of a Climate Action Plan (CAP) is an organized way for a town to contribute to solving the global climate crisis while helping its resident and business communities create improved resilience to the current and future impacts and risks of climate change. Climate action can also create investment in innovation, jobs and actions that save households and businesses money.

What is a Climate Action Plan (CAP)

Climate action plans are comprehensive road maps that outline the specific Strategies and Actions that a Town will implement to reduce greenhouse gas emissions and build resilience to related climatic impacts. The Hartford CAP addresses both climate mitigation and climate adaptation actions.

The Role of Communities in Climate Action

With a large majority of Americans living in urban areas, municipalities play a key role in addressing climate change. While each individual community's impact on global GHG emissions is relatively small, the leadership municipalities provide in motivating change can be extremely significant. According to a survey by the US Conference of Mayors, more than half (53%) of the communities they represented had committed to reducing greenhouse gas emissions.



Introduction

Climate Action as a Journey

The Climate Action Plan represents a robust vision of the future with a comprehensive scope of actions befitting the magnitude of our collective climate challenge ahead. This Climate Action Plan establishes a long-term climate resilience vision and mitigation goal for the community. The plan itself, its strategies, and detailed actions, are intended as a 9 year plan. It is anticipated that this plan would be updated by 2030 to outline the next phase of action towards achieving the long-term community-wide goals.

The Hartford Climate Action Plan should be seen as a living document. Action progress and effectiveness should be reviewed at regular intervals through the plan's implementation and adjustments should be made to expand or modify the scope of individual actions and to augment the plan with new actions as appropriate to respond to ever-changing market and community conditions.

Benefits of Climate Action

The strategies and actions contained in this plan seek to reduce Hartford's dependence on fossil fuels, prioritize sustainable uses of land and water, reduce waste, and support improved equity and livability. The actions outlined in this plan will reduce Hartford's GHG emissions. In addition to reducing the community's contribution to climate change this plan strives to identify how climate change will increasingly impact the community. The Climate Action Plan addresses next steps for Hartford to adequately respond to climate change. If implemented successfully the plan will enhance Hartford's economic vitality, resilience, and viability as a healthy, livable community.



Introduction

Hartford's Vulnerability to Climate Risks:

Climate change is a global phenomenon that creates local impacts. It presents one of the most profound challenges of our time. A broad international consensus exists among atmospheric scientists that the Earth's climate system is being destabilized in response to elevated levels of greenhouse gas emissions in the atmosphere.

Two changes to Vermont's climate are occurring already: shorter winters with fewer cold extremes, and more heavy and extreme precipitation. Increases in the global surface temperature and changes in precipitation levels and patterns are expected to continue and intensify for decades. In turn, these changes in climate have impacts on the economy and health of local communities.

The following highlight the vulnerabilities to climate risks facing Hartford, excerpted from the 2020 Hartford Climate Vulnerability Assessment:

Heat Stress (Medium)



Warmer temperatures and more extreme heat may lead to higher risk of heat-related illness.

Air Quality (Medium-low)



Increased heat may result in more days of poor air quality and exposure to allergens, impacting respiratory illnesses.

Vector-Borne Disease (Medium-high)



Longer growing seasons and higher temperatures may increase vector-borne diseases like West Nile Virus and Lyme disease.

Mental Health (Medium)



Exposure to increased climate impacts and disasters may lead to increased anxiety and other mental health ramifications.

Housing

(High)



Warmer temperatures will increase demand for air conditioning and weatherization needs. Energy costs may be difficult for vulnerable populations to meet. Heavier rains coupled with higher risk of surface drought conditions may cause more local flooding, particularly "flash flooding" which could cause damage to housing and reduce mobility for portions of the community.

Stormwater Management (High)



Heavier rains coupled with higher risk of surface drought conditions may significantly increase demand on stormwater management. The Town's stormwater infrastructure may not be capable of handling the amount of runoff during more frequent heavy down pours, requiring resources to make needed upgrades.

Trees, Greenspace, and Agriculture (High)



Increased temperatures and changes to precipitation will stress trees, greenspace, and agriculture. Conditions may be more favorable for disease, pests, and invasive species. Trees and crop species which formerly thrived in the area's climate may be less suited for future climate conditions.

Surface Water Quality (Low)



Increases to heavy rain events and flooding/flash flooding risk may negatively impact water quality in the Town's lakes, streams, and rivers. Increased pollutants and contamination potential, combined with increased annual water temperatures could increase risk to algal and bacterial growth, harming habitats and limiting recreation.



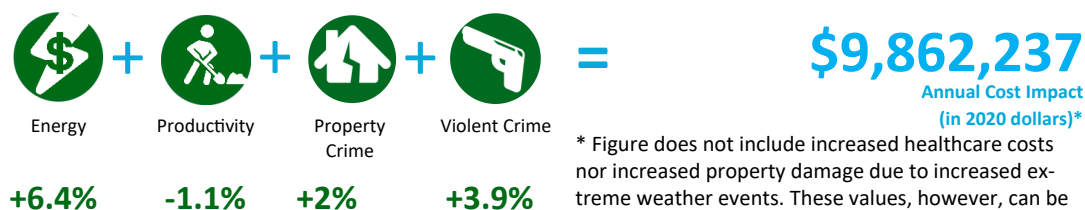
Introduction

Estimated Economic Risk of Climate Change to Hartford by 2100

Incidents of severe weather in the United States, such as significant storms and flooding in the Northeast are tangible examples of the types of economic impacts of projected climate trends. Future economic and social impacts of climate change include impacts to agriculture, energy costs, labor impacts, death rates, and crime impacts among others. “Estimating Economic Damage from Climate Change in the United States,” a study by Solomon Hsiang et al from the Goldman School of Public Policy at the University of California Berkeley, was a comprehensive effort at quantifying the economic impacts for every county within the United States. (<https://science.sciencemag.org/content/356/6345/1362>)

The study collected national data documenting the responses in six economic sectors to short-term weather fluctuations. These data were integrated with probabilistic distributions from a set of global climate models and used to estimate future costs during the remainder of this century across a range of scenarios. In terms of overall effects on gross domestic product, the authors predict negative impacts in the southern United States and positive impacts in some parts of the Pacific Northwest and New England.

The sectors assessed, and the findings for annual economic impact as a percentage of GDP for the Town of Hartford based on a pro rata share of Windsor County estimates are:



* Figure does not include increased healthcare costs nor increased property damage due to increased extreme weather events. These values, however, can be significant. Damages from hurricane Sandy, for instance, have been calculated at over \$14 Billion for the State of Vermont alone.

Estimated Social Cost of Carbon

“Social Cost of Carbon” is an effort to properly account for the damages caused by greenhouse gas emissions and the resulting climate change impacts. By including the social cost of carbon in planning efforts, agencies and business can properly evaluate policies and decisions that affect greenhouse gas emissions. The “Social Cost of Carbon” is measure of the share of climate change economic harm and impacts from emitting one ton of carbon dioxide into the atmosphere. For Hartford it can be calculated as follows:

Estimated Economic Risk of Climate Change:

\$9,862,237 ÷
Annual Cost Impact

Current Annual GHG Emissions:

93,735
Metric Tons

Current Estimated Localized Social Cost of Carbon:

\$105
Per Ton

Cumulative Economic Savings Potential of Implementing the Climate Action Plan Through 2030

Transportation Savings Potential:

\$33,700,000

Energy Efficiency and Renewable Energy Savings Potential:

\$10,530,000

Waste Reduction Savings:

\$6,780,000

Social Cost of Avoided Carbon:

\$13,880,000

Cumulative Community-Wide Savings Potential:
= \$64,890,000*

* Value does not include economic potential of job creation and new business potential represented in the Climate Action Plan actions. (see Appendix for more)

Introduction

What Are GHG's?

A greenhouse gas is a molecule in the atmosphere which does not react to light energy in the visible range (like sunlight), but does react to light energy in the infrared range -like that which is emitted from the Earth after being warmed by the sun. The most common greenhouse gases include carbon dioxide (CO₂), methane (CH₄), and nitrous oxide (N₂O).

Why do GHG's Matter?

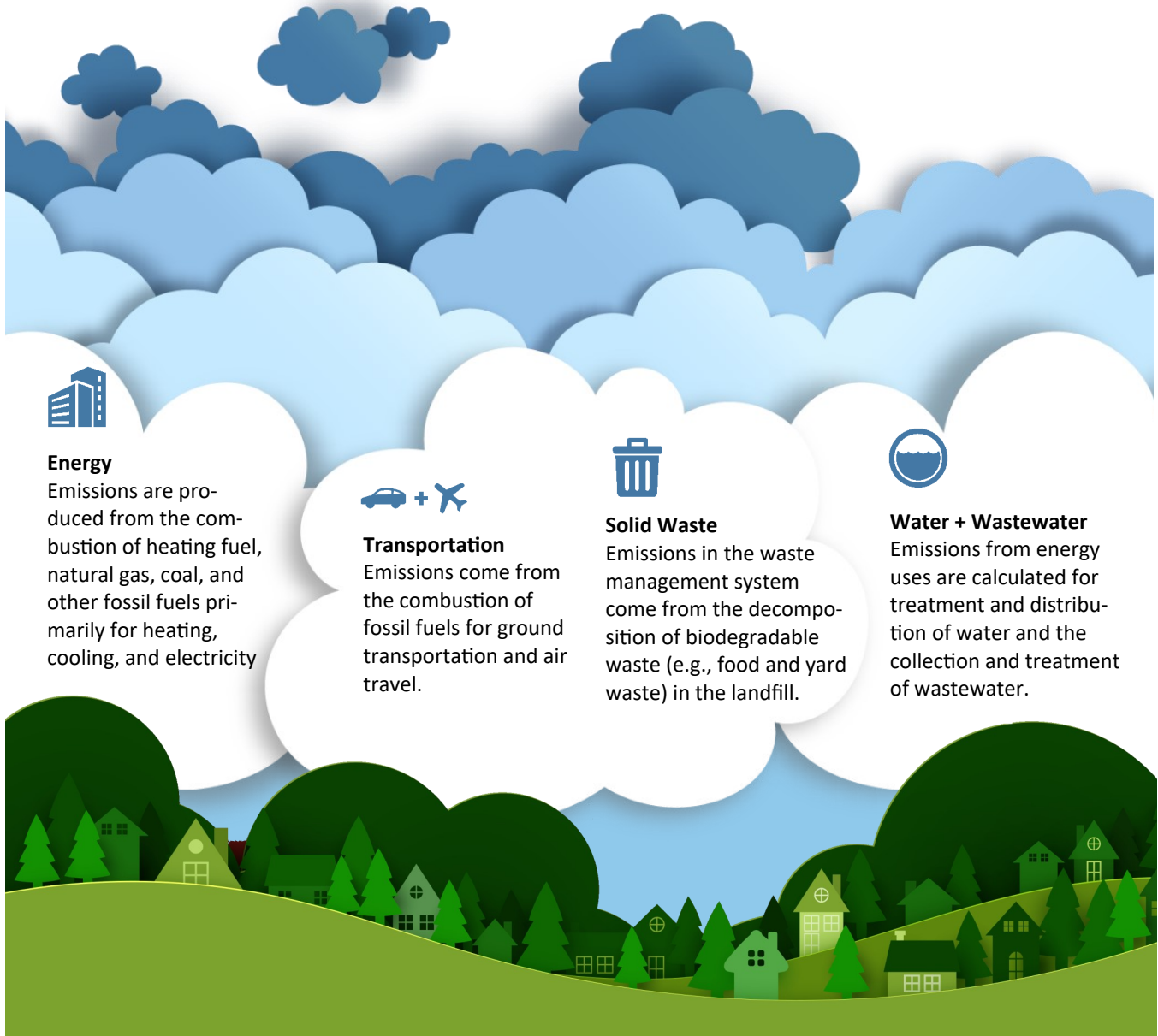
GHG's let the sun's light shine onto the Earth's surface, but they trap the heat that reflects back up into the atmosphere. In this way, they act like the insulating glass walls of a greenhouse. The more GHGs there are, the more heat that is trapped in our atmosphere and the more we experience the impacts of global warming.

What can we do to reduce GHG's?

Greenhouse gases can be reduced by making changes within the key greenhouse gas sectors within our community—particularly through the reduction and elimination of fossil fuel combustion and the advancement of clean energy sources.

Key Greenhouse Gas Sectors

Where do town wide GHGs come from?



Hartford Community Wide GHG Emissions Trends

2013 By The Numbers

GHG Emissions

103,940

10.51 MT Per-Capita

9.41 MT / Job

0.2497 MT / \$1,000 GDP

Population

9,893

GDP

415,775,971

\$42,027 GDP Per-Capita

Employment

11,043

2019 By The Numbers

GHG Emissions

93,735

9.72 MT Per-Capita

8.11 MT / Job

0.1958 MT / \$1,000 GDP

Population

9,643

GDP

478,504,672

\$49,622 GDP Per-Capita

Employment

11,554

6 Year Trend Dashboard

GHG Emissions

-10,205

-9.82%

-0.79 MT Per-Capita

-1.30 MT / Job

-0.05 MT / \$1,000 GDP

Population

-250

-2.53%

GDP

+\$62,728,701

+15.09%

+\$7,595 GDP Per-Capita

Employment

+511

+4.63%

Is Economic Development Tied To Increased Emissions?

No! Between 2013 and 2019 the Town was able to decrease it's GHG emissions by 9.82% while growing it's economy by 15.09% (pro rata share of County reporting) and adding 4.63% more jobs!

How Large Are Town Wide GHG Emissions?

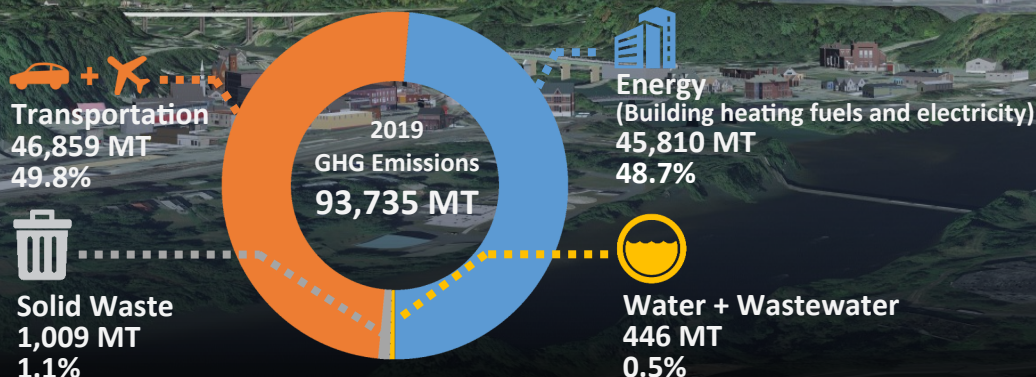
The community's total emissions for 2019 are equal to **1.85 Billion** cubic feet of man-made greenhouse gas.

This volume of atmosphere is equal to a cube **1,227** feet on each face.

Change in \$

Change in 

Community Wide GHG Emissions By Sector

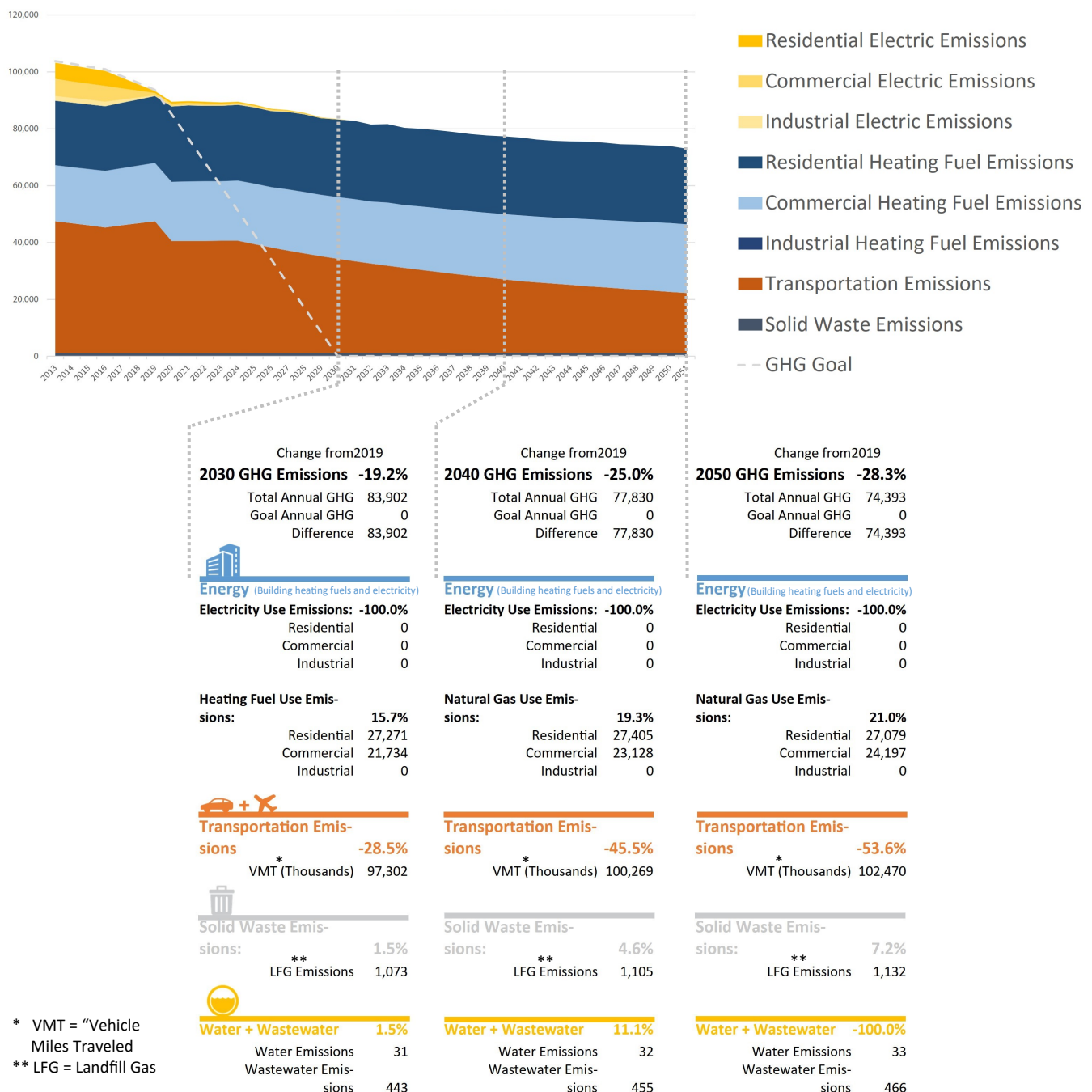


Introduction

Townwide GHG Emissions Forecast

A GHG emission forecast supports GHG reduction planning efforts by anticipating what emissions may be like if actions are not taken. Emissions are typically forecast under a business-as-usual (BAU) scenario. The Intergovernmental Panel on Climate Change (IPCC) defines a “business-as-usual” baseline case as the level of emissions that would result if future development trends follow those of the past and no changes in policies take place.

The Town of Hartford GHG forecasts included here were based on population, employment, and vehicle use growth estimates determined by the State of Vermont. In addition to these data, the BAU draws from information from the US Environmental Protection Agency, US Department of Transportation, and US Energy Information Agency. The full assumptions used for the Business-as-usual GHG Emissions Forecast model are outlined in detail in the appendix of this plan.



Introduction

Our Carbon Reduction Goal

The Hartford Selectboard and School Board formed the Ad-Hoc Climate Advisory Committee in 2019 and subsequently voted unanimously to pass a Joint Resolution Declaring a Climate Emergency, making climate change a defining focus for Town planning, funding, and action. The action resolves that:

The Town shall achieve net-zero greenhouse gas (GHG) emissions town-wide by 2030 and that “Hartford’s response to the climate emergency be just and equitable, especially with respect to the most vulnerable and impacted members of society.”

Following the passage of the Resolution, an additional ballot resolution (“Article 25”) passed with 65% of the vote, requiring the Town to lead by example and that:

The operation and maintenance of the Town of Hartford’s municipal infrastructure and equipment shall achieve carbon neutrality by 2027.

These goals are reflected in strategies established for individual sectors which seek to both support the Town’s Climate Action Plan in creating a climate resilient community and to reduce town wide GHG emissions in line with the above goal. Sector goals related to GHG emissions reductions are designed to balance reduction across all sectors and achieve the overall emissions goals set forth for the community. The goals seek to strike a balance between achievability and support of the Town’s bold emission reduction targets.

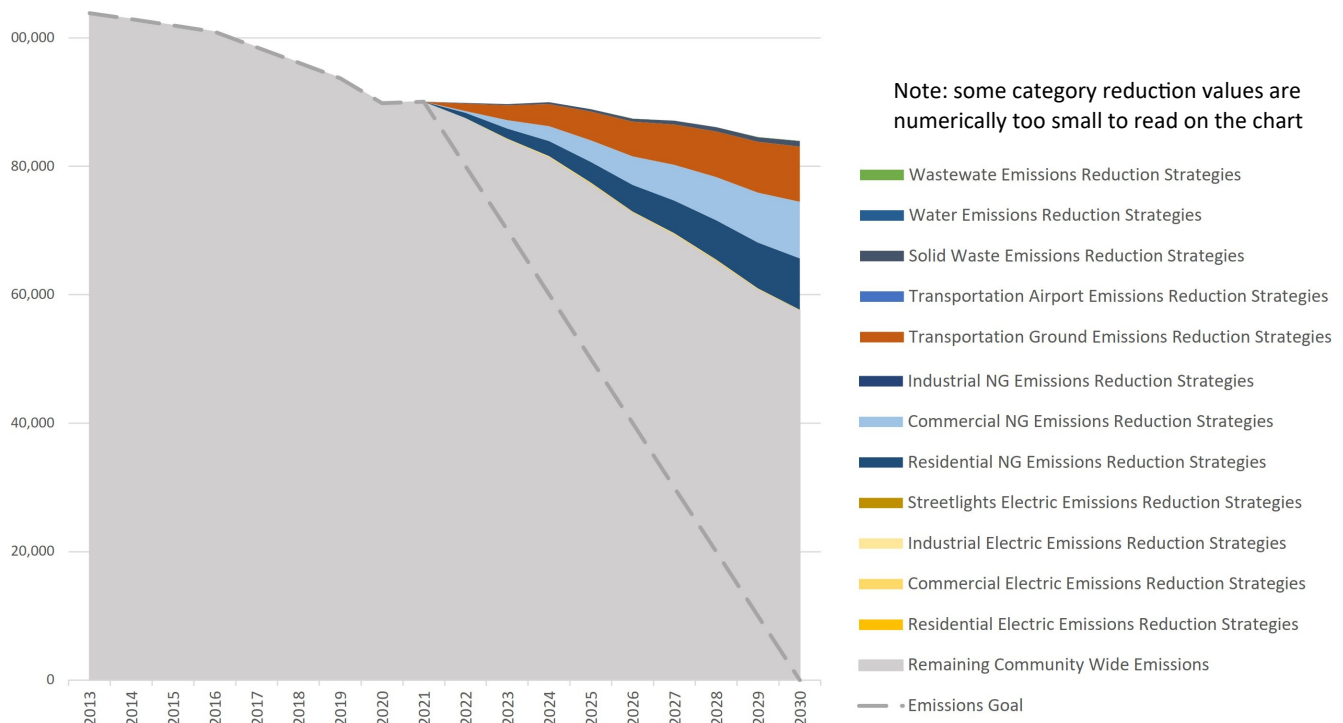


Introduction

Estimated Town Wide GHG Reductions Included in This Plan

Long-term emission reduction potentials of the strategies and actions included in this plan have been modeled based on projected energy and fuel reductions and adoption rates of renewable energy and low/no emission transportation modes outlined in the strategies and actions. From this modeling, we know that with the successful implementation of this climate action plan, by 2030 Town wide annual GHG emissions are projected to be 46,383 metric tons below 2013 levels and 36,177 metric tons below 2019 levels. The potential cumulative GHG emissions reductions over the 10 year implementation period are estimated at over 131,959 metric tons - an elimination of over **2.6 billion cubic feet** of man made greenhouse gas atmosphere resulting from this climate action plan.

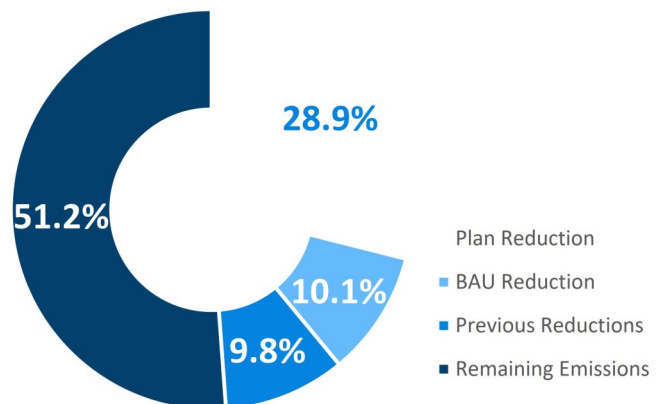
Town Wide GHG Emission Reductions Wedge Diagram



Breakdown of Town Wide GHG Emissions Reductions From 2013 to 2030

Total anticipated GHG emissions reductions by 2030 include emissions reductions which have already occurred since 2013, reductions which are anticipated within the Business-as-Usual forecast, and the reductions resulting from the strategies and actions included in this plan.

As illustrated in the chart to the right, town-wide emissions in 2030 are anticipated to be 48.8% less than they were in 2013.



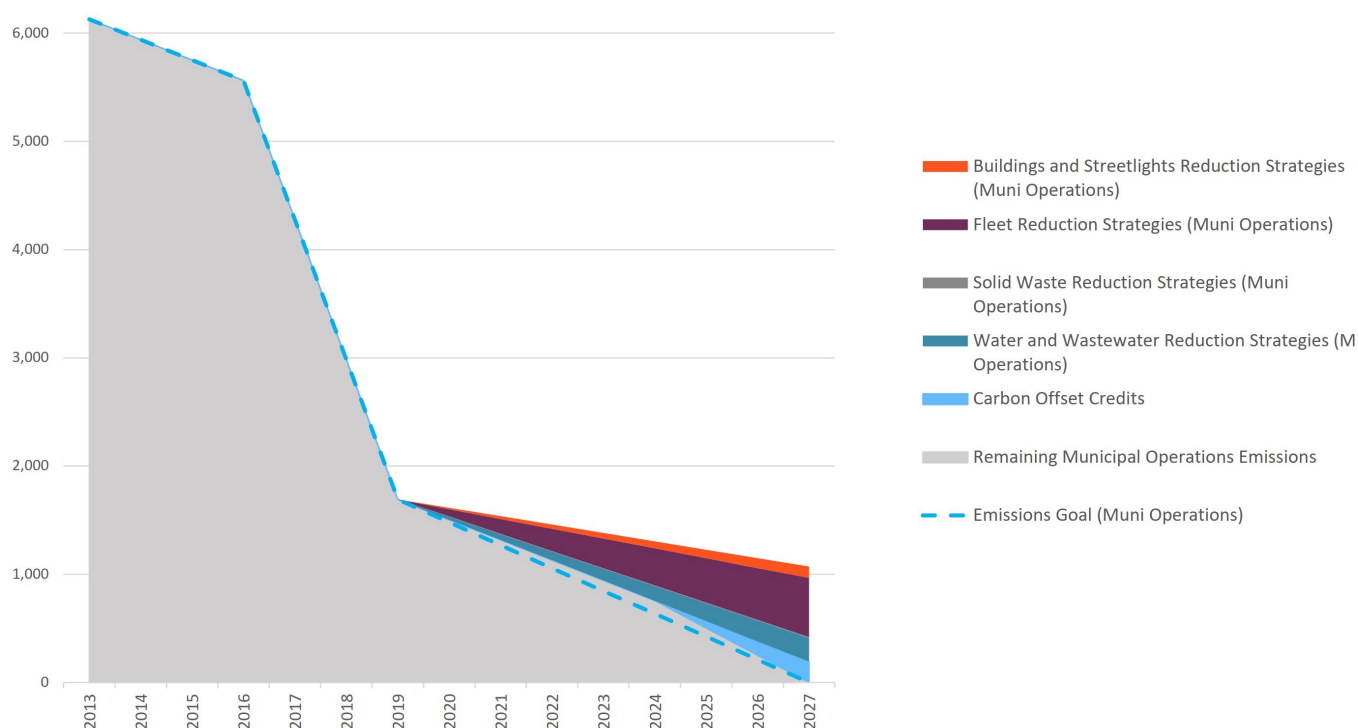
Introduction

Estimated Town Operations GHG Reductions Included in This Plan

By 2027, the modeled emissions reductions associated with Town Operations reductions strategies and actions are projected to be 5,935 metric tons below 2013 levels and 1,499 metric tons below 2019 levels prior to purchase of carbon offsets (Strategy MO 6). It is projected that potentially 3.2% of Town Operations emissions may remain by 2027. These potentially remaining emissions include an estimated 191 metric tons of biogenic emission from municipal wastewater treatment and 2 metric tons from solid waste.

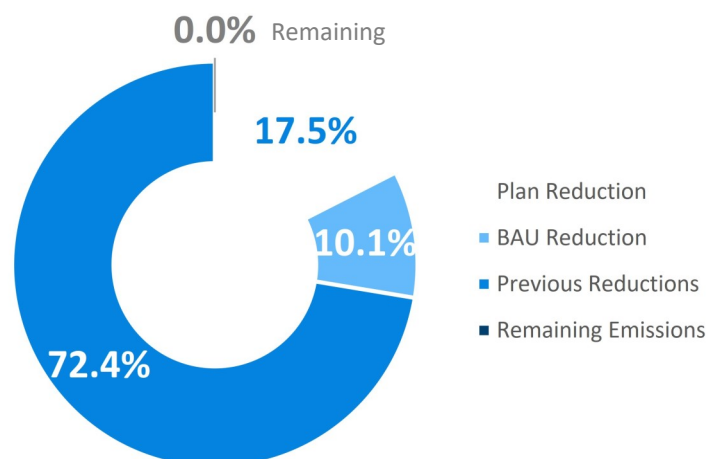
Town Operations GHG Emission Reductions Wedge Diagram

(note: sharp emission reduction shown between years 2016 and 2019 primarily reflect a significant change in the emissions factor—emissions per kWh of electricity consumed—associated with grid purchased electricity in Hartford.)



Breakdown of Town Municipal Operations GHG Emissions Reductions From 2013 to 2030

Total anticipated GHG emissions reductions by 2030 include emissions reductions which have already occurred since 2013, reductions which are anticipated within the Business-as-Usual forecast, and the reductions resulting from the strategies and actions included in this plan.



Introduction

The Process

The plan was developed in collaboration with a 32 person planning team of community members, business community members, non-profit organizations, Town commissions, and Town of Hartford staff. The planning team was organized into sub-teams aligned with each of the community-wide climate action sectors included in this plan (see Plan Framework). The plan was developed through a number of planning workshops from January 2021 through May 2021.

Development and implementation of the Hartford Climate Action Plan are opportunities for the Town of Hartford government and partners in the community to research and articulate some of Hartford's most pressing resilience challenges; identify specific, multi-benefit actions that contribute to solutions to those challenges; and secure additional resources, technical assistance, and partnerships to accelerate next steps.

The goals and actions identified in the Climate Action Plan are grounded in community input, expert analysis, and best practices from other cities throughout the United States. Strategic goals and detailed actions were developed by the Planning Team through a series of workshop meetings. A preliminary draft of actions were reviewed against action screening criteria which enabled the Planning Team to evaluate, refine, finalize, and prioritize the actions to be incorporated in the final Climate Action Plan.

Hartford Action Screening Criteria

Support: How likely is it to be adopted by the municipality or community-wide? Is it politically feasible? Is there community support? Is it consistent with the municipal or community priorities and readiness to implement?

Impact of Implementation: How likely is it to achieve the goal? Will it impact a large portion of the targeted emissions sector or population? What are the potential impacts to the 7th generation? the wellbeing of people worldwide? and the health of the planet? How likely is it to address the goal?

Equity of Implementation: Will it positively support advancing equity within the community? Address an existing inequity in the community, such as disproportionate poor air quality, access to transit, flood risk, etc? Does it address the needs of vulnerable and historically marginalized populations? Does it reduce vulnerability for all populations? Is it fair? Does it avoid having a negative impact on people outside our community?



Introduction

Climate Action Plan Framework

This Climate Action Plan includes an implementation framework designed to achieve community-wide goals for greenhouse gas reduction and climate adaptation and resilience. The plan is organized around a unifying framework organized by sector as illustrated to the right. Each sector has over-arching Strategies established to meet 2030 goals and detailed Actions for implementation. Sector actions include a focus on Climate Mitigation, Climate Adaptation, or both.

Climate Mitigation: addresses the root causes of climate change through the reduction or prevention of greenhouse gas (GHG) emissions. Sectors with this as a significant focus are shown to the right with this symbol:



Climate Adaptation: seeks to lower the risks posed by the impacts of climate change which are now inevitable or likely. Sectors with this as a significant focus are shown to the right with this symbol:



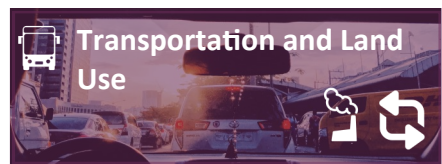
Emissions associated with all electricity and heating fuel/propane consumption within the Town. Approaches to this sector area include improved energy efficiency and resilience. Sector strategies include:

Strategy BE 1: Improve total Community wide residential, commercial, and industrial building energy efficiency by 10% Electricity and 10% Thermal Fuel by 2030.

Strategy BE2: Increase Net Zero buildings within the community to 5% of building stock by 2030.

Strategy BE 3: Achieve 30% residential, commercial and industrial building thermal "fuel switching" (to renewable source) to reduce on-site fossil fuel use by 2030.

Strategy BE 4: Increase on-site distributed renewable energy from 3% to 15% of Residential and Commercial electric use by 2030.



Emissions from on-road vehicle traffic occurring in the community. Approaches to this sector area include reductions in vehicle miles traveled as well as shifts to public transit and alternative modes of transportation like biking and walking. Sector strategies include:

Strategy TL 1: Decrease community wide VMT by 2.9% by 2030.

Strategy TL 2: Increase average population per developed acre by 5% by 2030.

Strategy TL 3: Increase battery electric vehicle (BEV, eBike, etc) utilization to 21.5% of community wide rolling stock by 2030 (for autos, this requires an increase from approximately 25 vehicles in 2019 to 2,333 vehicles in 2030 community-wide).

Strategy TL 4: Establish viable biodiesel sources to serve community by 2025. Achieve 25% diesel consumption replacement with biodiesel by 2030.



Introduction



All solid waste generated by residents and businesses within the community and their associated emissions. Approaches in this sector focus on diversion of food, consumer, and construction waste.

Sector strategies include:

Strategy WM 1: Achieve 100% organics landfill waste diversion by 2023.

Strategy WM 2: Increase recycling from 5% to 20% of total MSW handled by 2030 in an energy efficient, low emission manner.

Strategy WM 3: Decrease total per capita municipal solid waste handled by 5% by 2030.



Resilience of urban tree canopy, ground cover, greenspace, parks, and ecosystems. Focus includes expansion of tree canopy coverage, improvement of beneficial use of lawn areas, and mitigation of heat island impacts.

Sector strategies include:

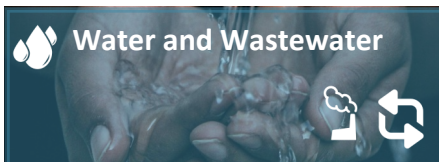
Strategy GT 1: Increase Tree Cover and Diversity, achieve an increase of 90 acres by 2030.

Strategy GT 2: Increase the use of Native Species and Pollinator Restorations Areas with a targeted conversion of 10% of Town-wide lawn coverage.

Strategy GT 3: Reduce Micro-Heat Island Effect through Town-Wide impervious surface reduction of 2% by 2030.

Strategy GT 4: Care for forest and wildland ecosystem health to enhance their resilience to climate change and capacities for carbon sequestration.

Strategy GT 5: Increase the resilience of the urban tree canopy and greenspaces to climate change impacts.



All potable water, wastewater collection and treatment, flood mitigation, and surface water health. Approaches to this sector focus on water conservation, wastewater reduction, flood mitigation, and stormwater management.

Sector strategies include:

Strategy W 1: Promote increased water conservation Town Wide with a targeted reduction of 6% (water and wastewater) by 2030.

Strategy W 2: Mitigate the projected increased flood hazards and impacts due to climate change.

Strategy W 3: Increase stormwater and wastewater treatment capacity to meet newly defined criteria of major storm and climate events by 2027.



Community health impacts and resilience in the face of current and projected climate impacts & risks. Approaches in this sector focus on community resilience and connections.

Sector strategies include:

Strategy HS 1: Educate, engage, and empower the public on health and safety risks of climate change impacts.

Strategy HS 2: Assist the Town's vulnerable populations in preparing for and mitigating climate change impacts from extreme heat, flooding, storm, and vector borne disease.

Strategy HS 3: Maintain updated plans to address climate risks and impacts.

Strategy HS 4: Strengthen community response capacity and support networks.



Food cultivation and distribution, nutrition insecurity, and food waste. Approaches to this sector include reduction of food waste, food system resilience, strengthening of local food production, and equitable access to healthy food. Sector strategies include:

Strategy LF 1: Increase production of local food, particularly serving low income and food insecure individuals.

Strategy LF 2: Increase access to local food.

Strategy LF 3: Reduce food waste and hunger, achieve a 50% reduction in food insecurity community-wide by 2030.

Strategy LF4: Increase local agricultural resilience to climate shocks.



Economic development, jobs, and business creation potential represented by the actions and goals of all sectors in this Climate Action Plan. Approaches include workforce and economic development, and resilience of businesses. Sector strategies include:

Strategy CE 1: Capture local economic potential of climate action.

Strategy CE 2: Increase workforce development and retention for the climate economy.

Strategy CE 3: Build marketplace climate resilience.

Strategy CE 4: Establish sustainable financing for the Town's climate action implementation.



Introduction

Addressing Municipal Operations Reductions

This plan includes six strategies focused on achieving the established Municipal Operation GHG reduction goals. These strategies include five which relate directly to the eight sectors outlined in the Climate Action Plan Framework outlined on the previous page and an additional strategy addressing potential carbon offsetting required to achieve full carbon neutrality of Municipal Operations by 2027.



Municipal Operations



Strategy MO 1: Improve total Municipal building energy efficiency by 15% Electricity and 15% Thermal Fuel by 2030.



Strategy MO 2: Achieve 100% Municipal building thermal "fuel switching" to reduce on-site fossil fuel use by 2027.



Strategy MO 3: Achieve 100% conversion of municipal operations gasoline and e10 gasoline fleet vehicles and equipment within municipal fleet to EV's by 2027. Achieve 100% conversion of all municipal fleet vehicles and equipment to EV's by 2040.



Strategy MO 4: Convert all remaining municipal operations diesel fuel utilization to biodiesel fuel by 2027.



Strategy MO 5: Achieve 100% organics landfill waste diversion, 10% increased recycling diversion, and 5% overall waste reduction for municipal operations by 2027.



Strategy MO 6: Achieve Carbon Neutral Municipal Operations by 2027.





Section 02 Buildings and Energy



[Click here to
return to TOC](#)



Buildings + Energy

In Hartford



104,919,000

kWh of electricity in 2019



680,489

Million BTU of heating energy



+3.9%

Change in community-wide
heating fuel consumption
since 2013



+8.4%

Change in residential electricity
consumption since 2013



+33.8%

Change in commercial elec-
tricity consumption since 2013

Buildings and Energy

Why Buildings and Energy Is Important

Building construction and operations can have extensive direct and indirect impacts on the environment, society, and economy. Buildings use significant resources (energy, water, raw materials, etc.), generate waste (occupant, construction, and demolition), emit potentially harmful atmospheric emissions, fundamentally change the function of land, and the ability of that land to absorb and manage water.

Building energy use is a major contributor to greenhouse gas (GHG) emissions. The Building Energy sector includes all residential, commercial, and industrial buildings. Greenhouse gas emissions from this sector come from **direct emissions** – from fossil fuels burned *on-site* for heating or cooking needs – as well as **indirect emissions** – from fossil fuels burned *off-site* in order to supply that building with electricity. Building design plays a large role in determining the future efficiency and comfort of facilities. Increasing energy efficiency can help reduce GHG emissions and result in significant cost savings for both homes and businesses. The Hartford community can also achieve environmental, social, and economic benefits through enhancements to the built environment. The Buildings and Energy sector is 49% of Townwide GHG emissions for the Town of Hartford. Within this sector, the share of residential consumption is 53%, commercial/industrial and government buildings are 47%.

Hartford Energy Use Profile

Residential:

According to 2019 community wide data, the residential sector in Hartford consumes nearly 40.3 million kWh of electricity annually. This is equal to 8,679 kWh per household. The sector also consumes over 378.5 billion BTU's of heating energy annually primarily from heat oil, propane, and wood.

Commercial:

The Hartford commercial and industrial sector in 2019 consumed nearly 64.6 million kWh, equal to 5,590 kWh per job. These sectors also consume over 302 billion BTU's of heating energy from heat oil, propane, and natural gas.

Climate Change Considerations



Climate Impacts

This sector impacts climate change through the combustion of fossil fuels (coal, natural gas, heating oil, propane) to generate electricity and heat/cool our buildings.



Climate Hazards

Hazards to Buildings and Energy include damage to buildings and energy grid infrastructure from extreme weather and flooding, increased power outages, and increased energy demand and cost expenditure due to rising temperatures and weather variability.

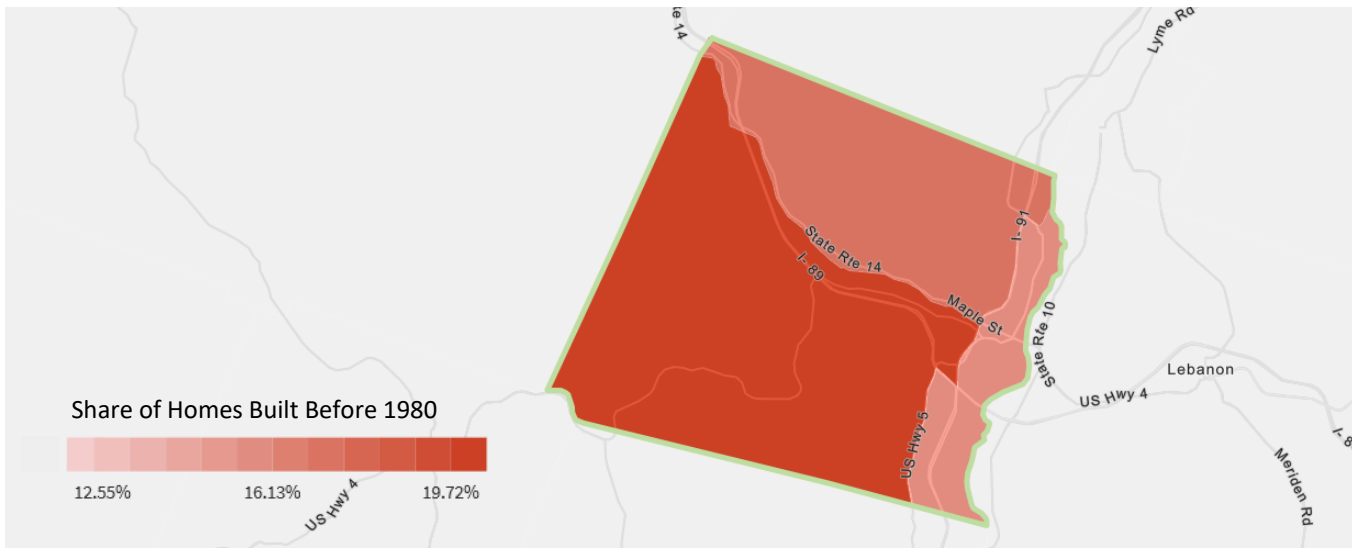


Buildings and Energy

Hartford Building Stock Efficiency

The measure of a community's existing building stock, certified high performance buildings, and housing characteristics provides a basis for determining the current and potential energy efficiency gains for the community. Energy and water efficiency upgrades are one of the simplest and most effective ways to conserve resources, save money, and reduce greenhouse gas emissions. New building technology has increased energy efficiency significantly in recent decades. Although newer U.S. homes are 30 percent larger, they consume a similar amount of total energy as older homes - meaning they are more energy efficient per square foot of space. According to the US Energy Information Administration, homes built between 2000 and 2009 used 15% less energy per square foot than homes built in the 1980s, and 40% less energy than homes built before 1950. This means that retrofitting older homes with some of these technologies provides ample opportunity to improve energy efficiency throughout the community. Below is a map of the distribution of homes built before 1980 in Hartford and a chart outlining the estimated annual energy savings potential for households built before 1980:

Hartford Homes Built Before 1980



Energy Savings and Thermal Fuel Switching Potential of Hartford Homes Built Before 1980

	Estimated Units	Est Thermal Energy Consumption (Billion BTU)	Targeted Energy Improvement Participation by 2030*	Anticipated Annual Electric Savings by 2030 (MMkWh)	Anticipated Annual Thermal Energy Savings by 2030 (Billion BTU)	Targeted Fuel Switching Participation by 2030 by sf	Combined Estimated GHG Reduction by 2030
Total Households	4,340		2,920				
Owner Occupied	2,750	251.78	1,851	3.17	25.43	550	(4,855)
Built 1980 to 1999	857	78.63	229	0.39	3.16	63	(600)
Built 1960 to 1979	746	68.31	746	1.28	10.25	224	(1,900)
Built 1940 to 1959	261	23.83	261	0.45	3.57	78	(663)
Built 1939 or Earlier	615	56.39	615	1.05	8.46	185	(1,568)
Renter Occupied	1,590	145.35	1,069	1.82	14.64	318	(2,800)
Built 1980 to 1999	513	46.86	125	0.21	1.71	35	(328)
Built 1960 to 1979	473	43.29	473	0.81	6.49	142	(1,204)
Built 1940 to 1959	162	14.69	162	0.27	2.20	49	(409)
Built 1939 or Earlier	309	28.20	309	0.53	4.23	93	(784)
Total Reduction Potential				5.00	40.07	868	(7,655)

Hartford Heating Fuel Switching Potential

According to data collected for the Hartford Greenhouse Gas Inventory, approximately 42% of residential heating is provided by fuel oil, 38% from propane/tanked natural gas, and 11% by electricity, 7.8% by fire wood or wood pellet fuel, and approximately 1% by solar thermal. Similarly, 61% of commercial and industrial heating is provided by fuel oil and the remaining 39% from propane/tanked natural gas (note, extent of electric heating for commercial and industrial properties is unknown). As Hartford's electric grid nears carbon neutrality, building heating fuel will become an increasingly important target for emission reductions. Consequently, reduction, and ultimately the elimination of all fossil fuel heating (oil, propane, natural gas) will be required in order to achieve community wide carbon neutrality.

	Estimated Units		Heating Fuel Emissions Remaining Following Energy	Targeted Fuel Switching Participation by 2030 by sf	Estimated GHG Reduction by 2030 Metric Tons
Total Households	4,340				
Owner Occupied	2,750	63.4%	15,543	688	(3,886)
Built 2010 or Later	18	0.4%	109	5	(27)
Built 2000 to 2009	253	5.8%	1,582	63	(395)
Built 1980 to 1999	857	19.8%	5,183	214	(1,296)
Built 1960 to 1979	746	17.2%	3,987	187	(997)
Built 1940 to 1959	261	6.0%	1,391	65	(348)
Built 1939 or Earlier	615	14.2%	3,292	154	(823)
Renter Occupied	1,590	36.6%	8,976	398	(2,244)
Built 2010 or Later	0	0.0%	0	0	0
Built 2000 to 2009	133	3.1%	845	33	(211)
Built 1980 to 1999	513	11.8%	3,101	128	(775)
Built 1960 to 1979	473	10.9%	2,527	118	(632)
Built 1940 to 1959	162	3.7%	858	41	(214)
Built 1939 or Earlier	309	7.1%	1,646	77	(411)
Total Reduction Potential			24,519	1,085	(6,130)

Hartford Renewable Energy Market Potential

As outlined in the Hartford Renewable Energy Potentials Study, a number of scenarios for potential future market absorption of on-site solar installations exist. Scenario B outlined below, is the recommended scenario:

Scenario B: This scenario anticipates the Town's share of the projected future Vermont solar pv installation rates to match the Town's current share of the State population. This scenario would mean an increase of approximately 2,074 KW of installed capacity within the Town by 2025, approximately 11.25% annual increase over that timeframe. This would result in around 5,974 KW of installed capacity, equivalent to approximately 20% of the total rooftop technical capacity potential.

NOTE: This projection does not include distributed ground-mounted solar pv potentials nor utility scale solar pv installation potential.

The chart below shows projections through 2040 using the assumptions outlined above.

Scenario B: Hartford Rooftop Solar PV Share of Statewide Projections Based on Population Share (11.25% Initial Annual Increase)

Year	Cumulative Installed (KW)	Annual Generation (KWH)	% of Townwide Electric Consumption	This is Equivalent to adding (x) Average Residential Arrays Annually:	Or Equivalent to adding (x) Average Commercial Arrays Annually:
2025	5,974	6,476,800	8.92%	61	10.4
2030	10,180	11,037,242	15.20%	144	18
2040	17,597	19,077,778	26.27%	145	19



Buildings and Energy

Equity Considerations

- Often, families that live in properties that are not energy efficient are also those that can least afford high-cost utility bills. These households may lack the ability to pay for energy efficiency improvements or access renewable energy options.
- Renters of both single family homes as well as multi-family housing usually do not have the ability to implement energy efficiency measures to the buildings they live in to gain the benefits of energy efficiency.
- Families with fewer resources must dedicate a disproportionately larger share of their income towards energy costs, which exacerbates other vulnerabilities including exposure to heatwaves and other climate vulnerabilities. These same families are sometimes forced to forego basic access to service altogether - an estimated 66 households in Hartford go without heating fuel of any type (US Census heating fuel utilization data).

Town-Wide Buildings and Energy Targets Supporting Sector Goals

Sector goals are established to both support the Town's Climate Action Plan in creating a climate resilient community and to reduce Town-wide GHG emissions.

	Townwide Renewable Energy (% of total consumption)	Townwide Electricity Consumption	On-Site Thermal Fuel Consumption	Structures Weatherized	Structures with Electrified Heating
					
Today	3%	105 _{GWH}	680 _{Billion BTU}	134	10%
2030 Targets	15%	94 _{GWH}	612 _{Billion BTU}	2,910	30%

Strategies Supporting Sector Goals

Sector goals related to GHG emissions reductions are designed to balance reduction across all sectors and achieve the overall emissions goals set forth for the community. The goals seek to strike a balance between achievability while also reaching -for improvement beyond business-as-usual.

As indicated in the introduction, the Climate Action Plan is intended to be a 9 year plan to be updated at the completion of that time. Consequently, the goals and strategies outlined in this section are intended to be achieved by 2030 (or earlier) unless otherwise noted.

Implementation of actions are anticipated to be initiated over 3 phases: phase 1 within 1-2 years, phase 2 within 2-5 years, and phase 3 within 3-7 years of CAP approval.

- Strategy BE 1:** Improve total Community wide residential, commercial, and industrial building energy efficiency by 10% Electricity and 10% Thermal Fuel by 2030.
- Strategy BE2:** Increase Net Zero buildings within the community to 5% of building stock by 2030.
- Strategy BE 3:** Achieve 30% residential, commercial and industrial building thermal "fuel switching" (to renewable source) to reduce on-site fossil fuel use by 2030.
- Strategy BE 4:** Increase on-site distributed renewable energy from 3% to 15% of Residential and Commercial electric use by 2030.

1

Strategy BE 1:

Improve total Community wide residential, commercial, and industrial building energy efficiency by 10% Electricity and 10% Thermal Fuel by 2030.

Actions	Implementation Phase
BE 1-1 Work with Green Mountain Power and other local partners to establish or expand and promote a residential and multi-family energy efficiency audit and upgrade program similar to Xcel Energy's "Home Energy Squad Visits". Target 200 households per year (https://www.homeenergysquad.net/)	1
BE 1-2 Establish a policy or ordinance requiring landlords to provide an energy disclosure, a statement of previous occupants' energy usage and expenses, when advertising and leasing properties. https://palebluedot.llc/hartford-cap-policy-examples	1
BE 1-3 Work with Green Mountain Power and other partner organizations to establish and promote building retro commissioning program to identify energy efficiency upgrades and operation and maintenance practices that improve affordability, comfort, indoor air quality and energy efficiency in all commercial and multifamily buildings. Goal 40 businesses commissioned annually	1
BE 1-4 Partner with Efficiency VT and other energy efficiency programs to develop, implement and moderate energy efficiency programs serving hard-to-reach segments of commercial properties (e.g., commercial rental, restaurants, large scale manufacturing, offices, affordable multifamily housing)	1
BE 1-5 Work with partner organizations to promote building retro-commissioning and operation and maintenance practices that improve affordability, comfort, indoor air quality and energy efficiency in all commercial and multifamily buildings.	1
BE 1-6 Work with school district to encourage and support energy efficiency programs, geo-thermal energy and solar energy installations at all school district facilities and to promote these strategies through curricula with students and communications with families.	1
BE 1-7 Develop and adopt a rental housing energy efficiency policy by 2025 requiring single family and multi-family rental housing properties to meet minimum energy efficiency level to qualify for rental licensing. Program to include an energy efficiency rating system (ENERGY STAR or HERS) or a Town "Green Landlords" certification program based on the energy efficiency of their rental units. Example program: https://boulder.colorado.gov/plan-develop/smartregs . https://palebluedot.llc/hartford-cap-policy-examples	2
BE 1-8 Establish new incentives and expand and promote existing incentives for energy and efficiency, weatherization, energy storage, renewable energy, and water efficiency (e.g. expedited permitting, rebates, property tax incentives, utility programs, etc) for all public and private buildings. Re-instate impact fees and increase impact fees over 5 years and add rebates for projects that meet Town CAP objectives for increased building efficiency and greenspace.	2
BE 1-9 Establish a Cool Roof policy to promote and advance the development of cool roofs on existing buildings and new construction. For information on cool roofs: https://cutt.ly/in3Q7M2 https://palebluedot.llc/hartford-cap-policy-examples	2
BE 1-10 Create a motivational program that provide incentives based on energy use reduction in addition to demand reduction (e.g., initiate a competition and offer prizes/ incentives based on energy use reduction by groups of residents, schools, businesses, municipal buildings, etc)	3
BE 1-11 Explore introducing an energy audit at the home point-of-sale or through the building permitting process, while making the audit an entry-point into all available efficiency products and services.	3



2

Strategy BE 2:

Increase Net Zero buildings within the community to 5% of building stock by 2030.

Actions		Implementation Phase
BE 2-1	Complete the pilot Net Zero / Net Zero Ready new construction program initiated in 2019.	1
BE 2-2	Establish a Net Zero Ready ordinance for new commercial buildings, multi-family residential buildings, and residential subdivision construction that improves energy efficiency and supports increased adoption of net zero construction techniques. Ordinance should include a "solar ready" requirement. Collaborate with the four core towns to establish similar ordinances/policies. Reach for best practices such as Living Building Challenge, Architecture 2030, LEED, Passive House, net zero, etc. for new residential, commercial, and municipal buildings. Goal: achieve ordinance and compliance by 2025 with an anticipated average of 15 new single family residents annually and 17 multi-family units annually by 2026 (based on permit history from 2017 through 2020). https://palebluedot.llc/hartford-cap-policy-examples	1
BE 2-3	Establish a Net Zero Energy Building Guide providing building owners, renters, developers, designers, and contractors with detailed information on strategies to make new construction or significant renovation projects Net Zero Energy or Net Zero Energy ready. https://view.publitas.com/palebluedot/bloomington-net-zero-energy-building-guide/	1
BE 2-4	Establish an education and communication campaign to promote use of Green Appraisals (i.e. what is a green appraisal? Their value and why you should get one? When and how do you get one? Etc)	1
BE 2-5	Develop standard deep retrofit specifications and incentives for existing residential building owners to reduce the carbon footprint of the building to zero.	2
BE 2-6	Build market demand for net-zero energy buildings through incentives, education, demonstration projects, partnerships and recognition.	2

Buildings and Energy

3 Strategy BE 3: Achieve 30% residential, commercial and industrial building thermal "fuel switching" (to renewable source) to reduce on-site fossil fuel use by 2030.	
Actions	Implementation Phase
BE 3-1 Coordinate and promote a residential and small business "Electrification and Energy Efficiency/Weatherization" group purchase campaign annually to help reduce the costs of energy efficient heating systems such as air source heat pumps and ground source heat pumps through volume purchasing power (goal, 150 households and 20 businesses annually). Program design to focus on improved equity (residential and commercial) in its implementation and explore strategies to support local small business contractors such as being set up to enable small contractors to collaborate or having a competitive "marketplace" approach with more than one contractor to choose from. NOTE: Action may be implemented in combination with the renewable energy group purchase program action.	1
BE 3-2 Implement a policy or sales license requiring fuel dealers to report sales within Hartford annually. https://palebluedot.illc/hartford-cap-policy-examples	1
BE 3-3 Deploy an incentive program for electrification for switching building space heating and water heating from fossil fuel-based to electric. Collaborate with Green Mountain Power and other regional partnerships to create financial incentives to electrify new and existing buildings. For example, rebates for electric heat pumps, panel upgrades, and electric appliances can encourage the transition to electric energy use in homes and businesses.	2
BE 3-4 Adopt regulations to require all-electric buildings for new construction and major remodels/redevelopment by 2027. Options such as building code updates and ordinances should be explored as tools for transitioning new construction to all-electric. https://palebluedot.illc/hartford-cap-policy-examples	2
4 Strategy BE 4: Increase on-site distributed renewable energy from 3% to 15% of Residential and Commercial electric use by 2030.	
Actions	Implementation Phase
BE 4-1 Coordinate and promote a residential Solar Group Purchase Campaign annually to help reduce the costs of solar installation through volume purchasing power (goal, 80 households annually). Program design to focus on improved equity (residential and commercial) in its implementation and explore strategies to support local small business solar installers such as being set up to enable small installers to collaborate or having a competitive "marketplace" approach with more than one installer to choose from. NOTE: Action may be implemented in combination with the electrification and energy efficiency group purchase program action.	1
BE 4-2 Identify the "Solar Top 50" commercial/industrial properties within the Town and produce detailed solar feasibility assessments for each site. Assessments should focus on Hartford's Hierarchy of Suitability and on the State's preferred siting locations (e.g. parking lot and rooftop solar PV capacity). Assessments to include potential solar generation and economic performance and return on investment estimates, information on financing and ownership models, and next step resources. Provide solar assessment reports to properties and conduct an informational workshop to assist building owners and businesses in understanding the assessments and next step potential. "Solar Top 50" assessment effort could be repeated annually, particularly through 2025.	1



Actions	Implementation Phase
BE 4-3 Coordinate and promote a commercial Solar Group Purchase Campaign annually to help reduce the costs of solar installation through volume purchasing power (goal, 860KW installed annually). Group purchase campaign could include/focus on properties identified in the "Solar Top 50" assessment effort and should include both direct purchase/ownership as well as 3rd party ownership options like Solar Lease and Power Purchase Agreements. Program design to explore strategies to support local small business solar installers and strategies to support local workforce development.	1
BE 4-4 Incentivize local renewable energy projects. Explore leveraging existing incentives to increase renewable energy utilization and generation throughout the entire Town. These incentives would include support for solar installation, low-income housing, and the creation of green jobs	1
BE 4-5 Establish a Solar Ready Guide providing building owners, renters, developers, designers, and contractors with detailed information on strategies to make new construction or significant renovation projects fully Solar Ready enabling more cost efficient and easier installation of on-site solar arrays. https://view.publitas.com/palebluedot/llbo-solar-ready-guidelines/	2
BE 4-6 Establish a clean energy fund to invest in energy efficiency and renewable energy projects. Develop and expand financing tools such as Clean Energy Works and commercial Property Assessed Clean Energy that are broadly accessible to households and building owners, including rental properties, throughout the community. Remove financial barriers to building retrofits, including limiting property tax increases due to completed energy projects.	2
BE 4-7 Review the solar process including permitting, and planning, zoning and development regulations to identify and reduce barriers to installing solar through the national SolSmart designation program. Become a SolSmart Gold community by 2025.	2
BE 4-8 Collaborate with Green Mountain Power and solar developers to offer community solar subscription opportunities for Hartford residents and businesses. Support program offerings through communications and promotions.	3

Buildings and Energy

Planned Buildings and Energy GHG Emission Reductions

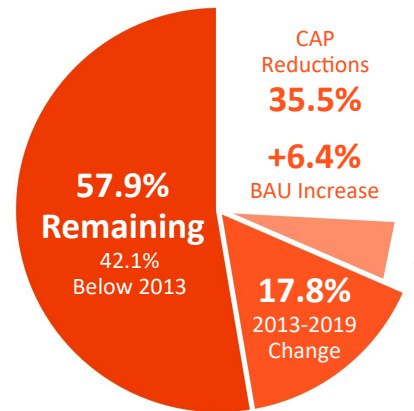
Planned Sector Emission Reductions Through 2030

The strategies and actions included in this section of the Climate Action Plan are projected to reduce the Town's annual GHG emissions by 16,908 metric tons (MT) by 2030 - a 35.5% reduction over 2013 levels. Changes in business-as-usual impacts over the same period are anticipated to increase emissions by an additional 3,559 metric tons and previous changes between 2013 and 2019 decreased emissions in this sector by 9,924 metric tons. The result is a total community wide Buildings and Energy sector reduction of 42.1% over 2013 levels.

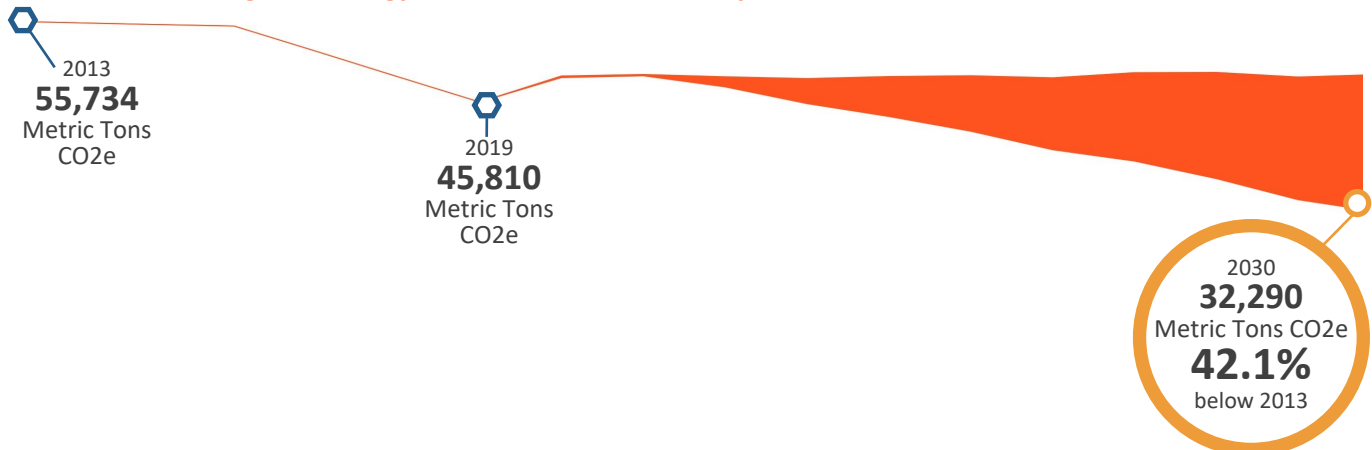
When compared to 2013 emissions, this is equivalent to eliminating 5,061 cars from the road, or **460 million** cubic feet of man-made greenhouse gas atmosphere annually by 2030.

Sector Emissions Reduction below 2013 by 2030

The total change to sector emissions include CAP Plan reductions, BAU emission changes, and previous changes between 2013 and 2019 as follows:



Hartford's Buildings and Energy Carbon Reduction Pathway



Estimated Cumulative Economic Savings

Implementing many of the measures in this plan, such as increased energy efficiency and renewable energy, can save money for the community. The estimated community savings of the goals for this section include:

Residential Energy Efficiency and Renewable Energy Savings:

\$2,230,000
\$452
per household

Commercial/Industrial Energy Efficiency and Renewable Energy Savings:

\$8,300,000
\$675
per job

Estimated Cumulative Savings Potential*

\$10,530,000
\$1,022
per capita

* Savings for residential and commercial/industrial energy efficiency are based on current average energy rates applied to projected energy reductions. Savings for residential and commercial/industrial renewable energy are based on an estimated 15 year ROI on solar installations with an average solar array design life of 30 years. See Appendix for Cumulative Potential Cost Savings Assumptions and data sources.



What You Can Do

You can support the goals of the Buildings and Energy section of the Hartford Climate Action Plan as an individual, household, or a business. Here are just a few things you can do:

- Schedule a home energy audit with a licensed contractor or Efficiency Vermont.
<https://www.efficiencyvermont.com/>
- Properly insulate your home — or work with a licensed contractor.
- Install energy-efficient windows and doors, working with a licensed contractor.
- Install solar panels at your home, working with a licensed contractor. If possible, participate in Hartford's residential solar group purchasing program.
- If you don't own your home but support clean, renewable energy, talk to Green Mountain Power to see if community solar is available. <https://cutt.ly/RbC6wa0>
- Convert 3 or more lights or lamps to LED bulbs.
- Set your thermostat 2 or more degrees higher during cooling season, lower during heating season.
- Turn down your water heater to 120°.
- Replace an older home thermostat with a “smart,” programmable model.
- Replace a major appliance (e.g., refrigerator, air conditioner, furnace) with a newer, energy-efficient model.
- Replace a gas range or clothes dryer with an electric model—or better yet line dry your clothes outside!
- Unplug 2 or more electricity “vampires” in your home or apartment.
<https://www.comed.com/News/Pages/NewsReleases/2019-10-30B.aspx>
- • Learn about adding solar panels to your home.



Section 03 Transportation and Land Use



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Transportation

In Hartford



91,566,000

Vehicle Miles Driven (VMT)
in 2019



+3.4%

Increase in VMT since 2013



77.1%

Commuters drive alone



25

Electric vehicles currently
registered

Transportation and Land Use

The design of a Town can limit or expand the choices and opportunities available to its residents. Where and how we live, our mobility to and from the places in our community we visit daily, and the related global impact of those decisions are all influenced by how our community is designed. The transportation systems we have access to and choose to use—including private and public vehicles, trains, and planes - can have significant impacts on the environment.

In Hartford, the transportation sector accounts for 49.6% of Town wide greenhouse gas emissions (2019 GHG Inventory). According to the US Bureau of Transportation Statistics, the average household in the United States have daily trips totaling 33,600 miles annually. Over 77% of those miles are trips associated with shopping, family, recreation, and other non-work related trips. The remaining 23% are for commuting to work and other business related trips.

In Windsor County, there are over 230,000 daily trips conducted. The majority of those (61.6%) are 5 miles or less in distance and nearly 23% are less than 1 mile. For work related trips in Hartford, the average commute-to-work time is 19 minutes. Over 22% of commuters have a commute of less than 10 minutes. The majority (77.1%) of Hartford residents drive to work alone. The remaining car-pool (14%), use public transit (1.7%), walk /bicycle (1.5%), or telecommute (5.5%). These statistics illustrate a significant opportunity for converting trip modes for personal and work related trips from driving to public transit, biking, or walking – representing a large annual GHG reduction potential.

Continuing to improve the equity and sustainability of Hartford’s land use and transportation systems requires a focus on developing systems and networks that allow for greater choice in where residents live and work, as well as how they commute. Implementation of Complete Streets and a connected system of transit, bike and pedestrian infrastructure along with emphasis on neighborhood design that supports well designed density and walkability. These strategies are lower cost solutions that will save households money while helping Hartford reach its goal to reduce Town wide GHG emissions by 2030.

Climate Change Considerations

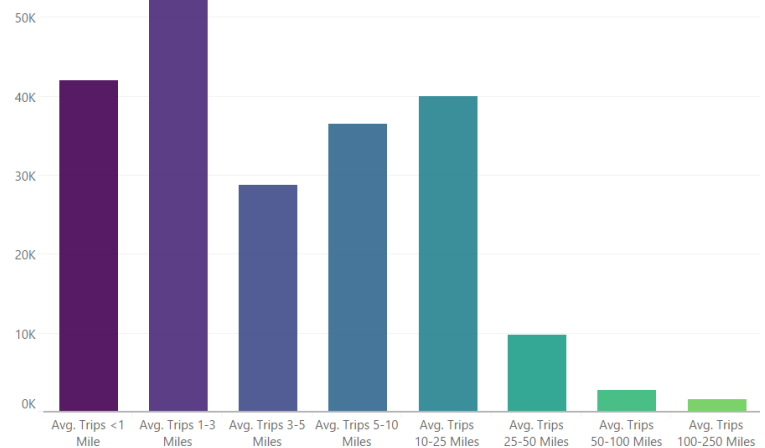


This sector impacts climate change through the combustion of fossil fuels (gasoline, diesel, propane) for on-road cars and trucks and off-road vehicles and equipment.

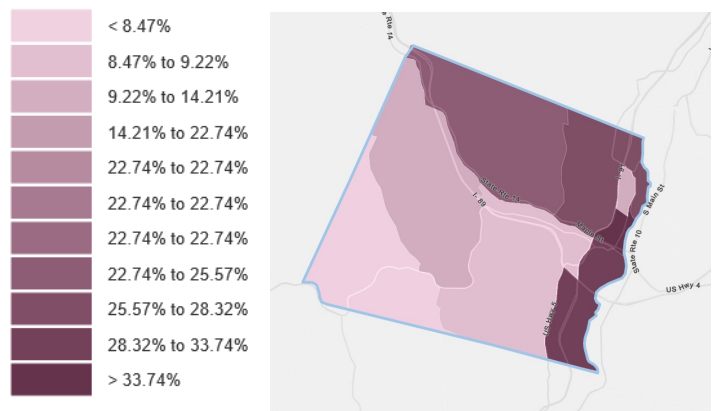


Hazards to transportation and land use include increased damage to roads and transportation infrastructure due to increased freeze and thaw cycles, flooding, and extreme weather and temperatures.

Average Trips per Day by Distance in Windsor County (June 2021)



Commuters with <10 Minute Commute in Hartford



Transportation and Land Use

Equity Considerations

- Increased opportunities for public transit and active transportation can help address health disparities for many at-risk populations.
- Affordable and reliable options for mobility for people with special transportation needs can significantly improve transportation equity. Populations with special transportation needs include older adults, youth, persons with disabilities, and persons with reduced incomes.
- Improving the accessibility (ADA) of reliable and affordable transportation allows people with disabilities and mobility restrictions important opportunities in education, employment, healthcare, housing and participation in community life
- Some portions of Hartford have fewer housing and transportation options than others. This can limit people's choices in where they live and how they get to work or other activities. According to the US Census, 7.3% of Hartford households have no vehicles. Households that rely on public transit service or who rent their home will be limited in where they may find housing that meets both needs.

Mode Shift Targets Supporting Sector Goals

	Vehicle Miles Traveled (VMT)	Population Density Per Acre	Electric Vehicles	Biodiesel Replacement of Diesel use
	 -	 +	 +	 +
Today	91.6 MVMT	3.16/acre	25	0%
2030 Targets	88.8 MVMT	3.32/acre	825	25%

Strategies Supporting Sector Goals

Sector goals related to GHG emissions reductions are designed to balance reduction across all sectors and achieve the overall emissions goals set forth for the community. The goals seek to strike a balance between achievability while also reaching -for improvement beyond business-as-usual.

As indicated in the introduction, the Climate Action Plan is intended to be a 9 year plan to be updated at the completion of that time. Consequently, the goals and strategies outlined in this section are intended to be achieved by 2030 (or earlier) unless otherwise noted.

Implementation of actions are anticipated to be initiated over 3 phases: phase 1 within 1-2 years, phase 2 within 2-5 years, and phase 3 within 3-7 years of CAP approval.

- ① **Strategy TL 1:** Decrease community wide VMT by 2.9% by 2030.
- ② **Strategy TL 2:** Increase average population per developed acre by 5% by 2030.
- ③ **Strategy TL 3:** Increase battery electric vehicle (BEV) utilization to 21.5% of community wide rolling stock by 2030 (from approximately 18 vehicles in 2019 to 825 vehicles in 2030 community-wide).
- ④ **Strategy TL 4:** Establish viable biodiesel sources to serve community by 2025. Achieve 25% diesel consumption replacement with biodiesel by 2030.

Transportation and Land Use

1

Strategy TL 1:

TL 1: Decrease community wide VMT by 2.9% by 2030.

Actions		Implementation Phase
TL 1-1	Create mobility hubs for enhanced mobility options such as ride share, car share, and bike share.	1
TL 1-2	Modify zoning codes to reduce or eliminate Townwide minimum parking requirements and set parking maximums for most land-use types and require developers and landlords to “unbundle” parking from rent. https://palebluedot.llc/hartford-cap-policy-examples	1
TL 1-3	Continue to support Safe Routes to Schools programs.	1
TL 1-4	Collaborate with upper valley employers to encourage and incentivize work-at-home adoption.	1
TL 1-5	Support a new regional (Vermont and New Hampshire) multimodal transportation funding source for transit, bicycle and pedestrian services and facilities. Advocate for including provisions that prioritize transit and multimodal designs for facilities.	1
TL 1-6	Develop an Active Transportation Plan (ATP) to facilitate the expansion of strong bicycle and transit connections within and between villages. The ATP will serve as the basis for expanding and establishing safe, convenient and complete alternative transportation networks in Hartford for pedestrians, bicycles, eBikes, and transit. ATP to identify prioritized active transportation projects in the Town, emphasizing multimodal transportation, access to transit, pedestrian safety, bike racks and lockers, beautification, green infrastructure, and a seamless regional bike network that favors protected bike lanes particularly on high-traffic streets without the potential for bicycle facilities on parallel streets (e.g. Sykes Mt. Ave.). Resource: https://atpolicy.org/active-transportation-plans-index/	2
TL 1-7	Create park'n ride lot at Exit 1 to encourage use of buses and car-pool.	2
TL 1-8	Expand rapid transit serving job centers.	2
	Prioritize transportation funding for Vision Zero engineering improvement projects to create safe streets for people walking, biking and riding transit. Resource: https://visionzeronet.org/about/what-is-vision-zero/	2



Transportation and Land Use

2

Strategy TL 2:

Increase average population per developed acre by 5% by 2030.

Actions	Implementation Phase
TL 2-1 Amend the zoning ordinance to allow higher density development. These amendments should include increasing building heights, allowing projects to build out to approved densities, and should consider opportunities for mixed land use. Increased density can minimize vehicle miles travelled and increase quality of life. https://palebluedot.llc/hartford-cap-policy-examples	1
TL 2-2 Encourage development of accessory dwelling units ("ADU") to create additional legal ADUs compatible with residential neighborhoods. This will add additional housing options for the town's workforce, seniors, families with changing needs, and others for whom ADUs present an affordable housing option.	1
TL 2-3 Conduct a Development Study to identify and prioritize available sites for redevelopment and in-fill development to advance town's walkability, bikeability, and transit utilization. Study should include a review of under utilized surface parking infrastructure capable of being redeveloped.	1
TL 2-4 Issue competitive redevelopment Request for Proposals based on findings of Development Study to encouraging high quality mixed use redevelopment on redevelopment, infill properties and existing surface parking lots within village downtown districts. RFP's should focus on equity, affordability, livability, and compliance/support of Climate Action Plan goals.	2
TL 2-5 Incentivize infill and mixed-use developments which result in increased density and improved mobility (e.g., through alternative code compliance, fee waivers, density bonuses, investment prioritization, development impact fees, tax benefits).	2

Transportation and Land Use

3	Strategy TL 3: Increase battery electric vehicle (BEV, eBike, etc) utilization to 21.5% of community wide rolling stock by 2030 (for autos, this requires an increase from approximately 25 vehicles in 2019 to 2,333 vehicles in 2030 community-wide).	
	Actions	Implementation Phase
TL 3-1	Create an Electric Vehicle Action Plan (EVAP) to guide access to chargers town-wide on public and private property. EVAP should Explore alternative technologies like Smart Cable technology and streetlight/EV charger integration, address barriers to charging for garage-free homes and rental properties, increase use of EVs in car sharing programs, assess options to lower EV and EV charger implementation costs, and recommend EV charging station requirement amendments to zoning ordinances to support EVAP. EVAP should also consider EV charging needs for town residents and businesses as well as consider opportunities to support EV charging for travelers in ways which support the community as well as the traveler. Resource: https://palebluedot.illc/llbo-ev	1
TL 3-2	Implement an "EV Ready" building ordinance that requires new developments to have wiring capacity to charge electric vehicles and establish minimum parking requirements for exclusive EV use. https://palebluedot.illc/hartford-cap-policy-examples	1
TL 3-3	Educate the public on existing state, federal, and utility incentives for efficient and electric vehicles, including tax incentives and at-home electric vehicle charging outlet incentives.	1
TL 3-4	Build public awareness of EV options through communications, Ride-And-Drive events, etc (Example: Columbus OH https://cutt.ly/bbwUKu8)	1
TL 3-5	Establish and promote a regional EV group-buy program.	2
TL 3-6	Encourage car dealers to to retain EVs for resale here by demonstrating market for used EVs and work with Upper valley towns to create list of preferred dealers.	2
TL 3-7	Evaluate, monitor, and promote incentive programs to expand EV charger deployment on private property, including rebates and financing options (e.g. on-bill financing, etc.).	2



Transportation and Land Use

4 Strategy TL 4: Establish viable biodiesel sources to serve community by 2025. Achieve 25% diesel consumption replacement with biodiesel by 2030.	
Actions	Implementation Phase
TL 4- 1 Conduct a Biodiesel Source Feasibility study to identify viable sources and outlets for increasing biodiesel availability and utilization. Study to include analysis of efficiency chain and impact on land use and other communities. Study may include exploration of existing supply chains as well as potential new sources such as through a locally operated biodiesel plant or plasma gasification plant.	1
TL 4- 2 Collaborate with existing fuel retailers to establish, increase, and promote use of bio-diesel in lieu of fossil fuel diesel (minimum B20 level).	2
TL 4- 3 Establish communication and education campaign to encourage the use of biodiesel for vehicles unable to be replaced with electric or zero/low emission alternatives.	2

Transportation and Land Use

Planned Transportation and Land Use GHG Emission Reductions

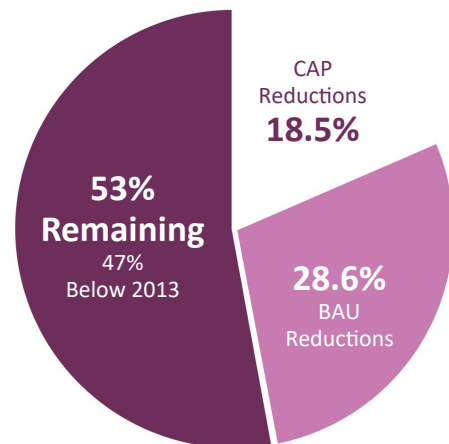
Planned Sector Emission Reductions Through 2030

The strategies and actions included in this section of the Climate Action Plan are projected to reduce the Town's annual GHG emissions by 8,603 metric tons (MT) by 2030 - an 18.5% reduction over 2013 levels. Changes in business-as-usual impacts over the same period are anticipated to reduce an additional 13,265 metric tons. The result is a total community wide Transportation sector reduction of 47% over 2013 levels.

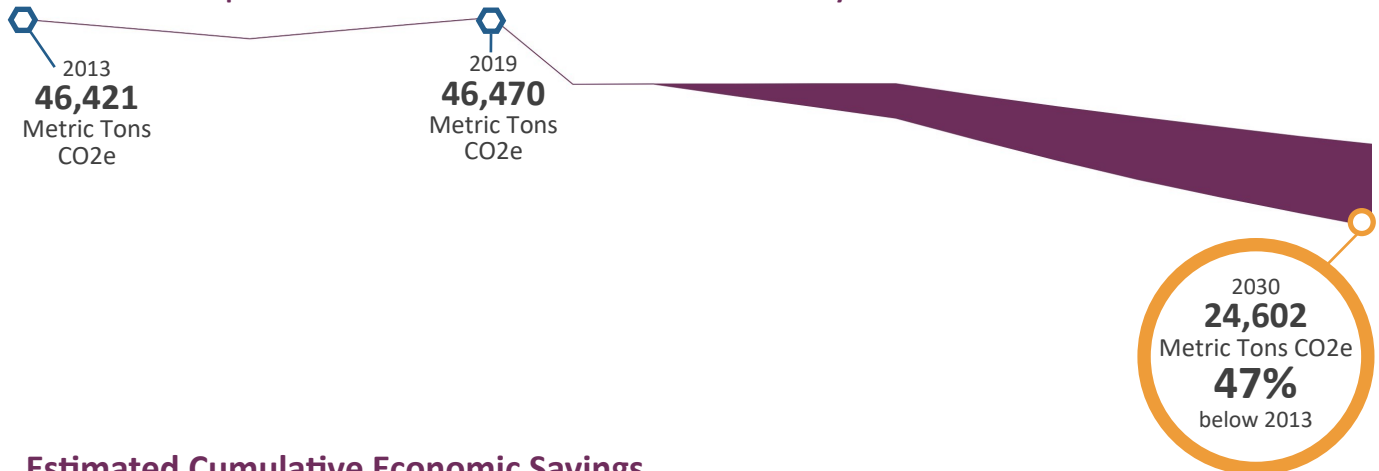
When compared to 2013 emissions, this is equivalent to eliminating 4,756 cars from the road, or **428 million** cubic feet of man-made greenhouse gas atmosphere annually by 2030

Sector Emissions Reduction below 2013 by 2030

The total change to sector emissions include CAP Plan reductions, BAU emission changes, and previous changes between 2013 and 2019 as follows:



Hartford's Transportation and Land Use Carbon Reduction Pathway



Estimated Cumulative Economic Savings

Implementing many of the measures in this plan, such as reduction of single-occupancy auto use, can save money for the community. The estimated community savings of the goals for this section include:

Decrease VMT by 2.9%:

\$25,000,000
\$2,593
per capita

Increase EV utilization to 21.5% of VMT

\$8,700,000
\$901
per capita

Estimated Cumulative Savings Potential*

\$33,700,000
\$3,494
per capita

* Savings for VMT reductions are based on multiplying the estimated vehicle miles saved by AAA calculated auto use cost per mile and 2020 PACE transit pass costs. Savings for EV utilization are calculated based on multiplying the estimated vehicle miles switching from gas/diesel fuel vehicle by the sum of the AAA calculated gas/diesel auto use cost per mile subtracting the EPA estimated EV auto use cost per mile. See Appendix for Cumulative Potential Cost Savings Assumptions and data sources.



Transportation and Land Use

What You Can Do

You can support the goals of the Transportation and Land Use section of the Hartford Climate Action Plan as an individual, household, or a business. Here are just a few things you can do:

- Join a carpool or use ridesharing to get to work, a group activity or event.
- Take public transit to work, an appointment, a group activity or event. Plan your trip here: <https://advancetransit.com/>
- Buy or lease an electric or hybrid vehicle.
- Walk to work, an appointment, a group activity or event.
- Ride a bike, electric bike or scooter to work, an appointment, a group activity or event.
- Merge two or more errands into a single driving trip.
- With a family member or friend, take public transit to a group activity or event.
- Buy or tune up a used bike.
- Sell or donate a bike (in good condition) you aren't using.





Section 04

Waste Management



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Solid Waste

In Harford



371

tons of recycling in 2019



6,468

tons of landfill waste in 2019



4.9%

Decrease in total waste
collected since 2013

casella

Waste Management

Why Waste Management Is Important

In Harford, solid waste contributed 1.1% of Town-wide greenhouse gas emissions in 2019. Town-wide municipal solid waste (MSW) handled in 2019 totaled 6,839 tons. Of the MSW handled an estimated 371 tons (5.4% of total) was recycled and the remaining 6,468 tons (94.6%) was landfilled. Municipal solid waste sector has great potential to avoid emissions throughout the economy thanks to waste reduction and waste recovery.

Food discards and residuals that decompose in landfills release methane, a greenhouse gas that is at least 28 times more potent than carbon dioxide. This fact makes food wasting a significant contributor to solid waste greenhouse gas emissions. Habitat destruction, global warming, and resource depletion are some of the effects of our materials consumption.

Waste Management Hierarchy

Important strategies to reducing our solid waste impacts on the environment include reduction, reuse, recycling, and composting.

Most preferred environmental option
↑
Least preferred environmental option



Hartford Recycled Material Breakdown

According to data collected by the Hartford Department of Public Works, the breakdown of community wide recycled materials includes aluminum, steel, and glass containers, mixed paper, cardboard, metal, plastics, tires, and used motor and heating oil. See the chart to the right for breakdown by type.

Hartford Landfill Waste by Material

The Vermont Department of Environmental Conservation Solid Waste Program prepared a State-wide Waste Characterization Study in 2018. Based on that study, reasonable assumptions can be made regarding the likely breakdown of municipal solid waste (MSW) landfilled from Hartford community-wide collection. We have organized the characterization study categories based on their potential for waste diversion as follows (see chart on next page):

Organics

(food waste, yard waste)

Potentially Recyclable Materials

(paper, plastics, glass, and metal)

Potentially Recoverable Materials

(C&D, textiles and leather, electronics)

Other Materials

(hazardous waste, all other waste)

MSW Breakdown by Type

Climate Change Considerations



Climate
Impacts

This sector impacts climate change through combustion of fossil fuels in the collection and processing of materials, as well as the generation of methane from anaerobic decomposition of organic materials in landfills.



Opportunities

As indicated in the Waste Diversion Potential Estimate diagram, a significant portion of Harford's waste stream has the potential for being put to beneficial use while avoiding GHG emissions.



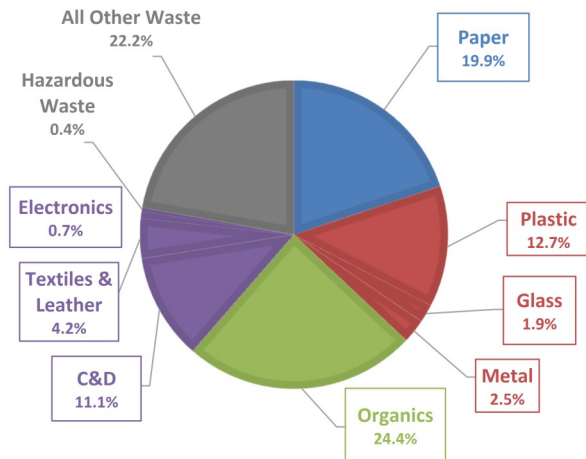
Climate
Hazards

Hazards to the waste management system include damage to infrastructure from extreme weather and flooding.



Waste Management

MSW Breakdown by Type



Harford Solid Waste Per Capita Trends

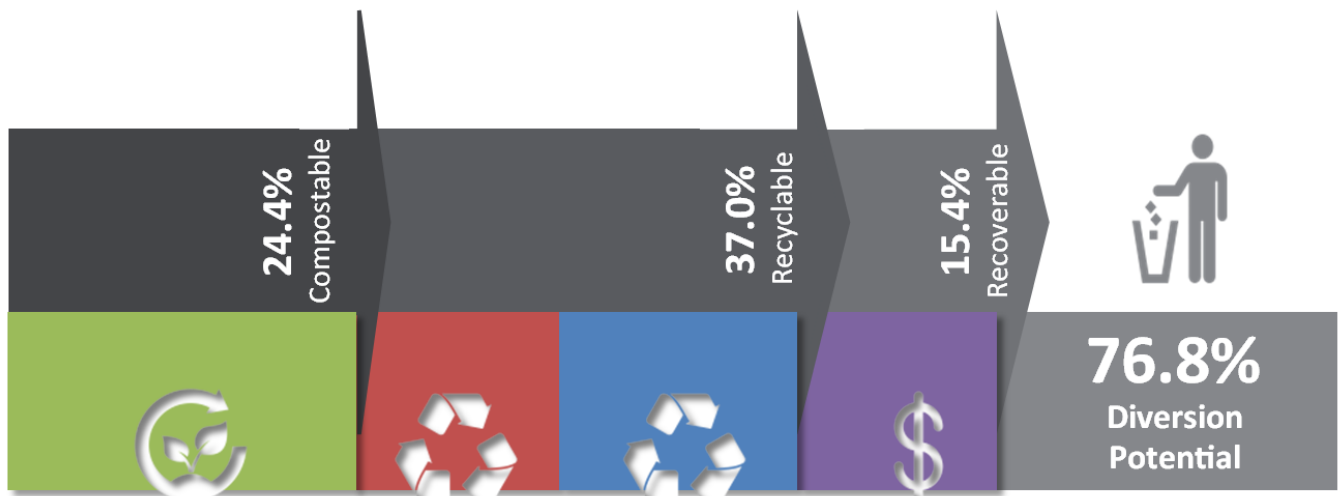
According to data collected by the Hartford Department of Public Works, total community-wide MSW handled in 2013 was equivalent to 3.98 pounds per person per day with recycling comprising 0.25 pounds and the remaining 3.73 pounds being landfilled waste. By 2019 the community-wide MSW handled reduced to 3.89 pounds per person per day with recycling comprising 0.21 pounds and the remaining 3.68 pounds being landfilled waste. The Hartford per capita landfill waste compares to the State-wide average of 3.7 pounds as reported by the State's 2018 Waste Characterization Study.

According to these numbers, the total per capita MSW handled reduced 2.43% from 2013 to 2019. Meanwhile, the total existing diversion rate (solid waste diverted from landfills) in Hartford was 5.4% in 2019 a drop from 6.3% in 2013.

Waste Diversion Potential

Based on the State-wide Waste Characterization Study, there may be waste diversion potential of up to 76.8% in the current landfilled materials (idealized maximum). Below is the breakdown of the estimated total potential waste diversion:

Organics	24.4%
Potentially Recyclable Materials	37.0%
Potentially Recoverable Materials	15.4%
Other Materials (remaining landfill waste)	23.2%



Waste Management

Equity Considerations

- Accessibility to recycling and composting programs may not be equally and readily available to all community residents and may also be impacted by other participation-related barriers, including awareness of programs, user fees, accessibility based on housing type, and language barriers.
- Populations that are situated very close to the landfill or composting facility may experience nuisance issues like bad odors and potential health issues unless mitigation actions are implemented.

Town-Wide Solid Waste Targets Supporting Sector Goals

Sector goals are established to both support the Town’s Climate Action Plan in creating a climate resilient community and to reduce Town-wide GHG emissions.

	Organics Diversion	Recycling Diversion	Total MSW Handled
			
Today (% of total waste)	25%*	5%	6,839 tons
2030 Targets (% of total waste)	100%	15%	6,497 tons

*Estimated

Strategies Supporting Sector Goals

Sector goals related to GHG emissions reductions are designed to balance reduction across all sectors and achieve the overall emissions goals set forth for the community. The goals seek to strike a balance between achievability while also reaching -for improvement beyond business-as-usual.

As indicated in the introduction, the Climate Action Plan is intended to be a 9 year plan to be updated at the completion of that time. Consequently, the goals and strategies outlined in this section are intended to be achieved by 2030 (or earlier) unless otherwise noted.

Implementation of actions are anticipated to be initiated over 3 phases: phase 1 within 1-2 years, phase 2 within 2-5 years, and phase 3 within 3-7 years of CAP approval.

- 1 Strategy WM 1:** Achieve 100% organics land-fill waste diversion by 2023.*
- 2 Strategy WM 2:** Increase recycling from 5% to 20% of total MSW handled by 2030 in an energy efficient, low emission manner.
- 3 Strategy WM 3:** Decrease total per capita municipal solid waste handled by 5% by 2030.

* Note: Vermont Universal Recycling Law (Act 148) which went into effect bans food scraps and other organics from the trash. This strategy looks to reinforce and support implementation of that requirement.





Waste Management

1 Strategy WM 1: **Achieve 100% organics landfill waste diversion by 2023.**

Actions	Implementation Phase
WM 1-1 Offer curbside compost collection to all residential properties (e.g., single-family and multifamily) for yard waste, food waste and certified compostable products. This service is optional for all residential properties. Provide information on the value and methods for composting.	1
WM 1-2 Examine options for expanding commercial and residential composting; assess the feasibility of establishing a permitted facility to compost or anaerobically digest organic materials and food waste.	2
WM 1-3 Offer five days a week (Monday through Friday) collection for food waste and certified compostable material at businesses. Change the type of compost operation or increase land allocation to handle additional feedstock, as needed.	2
WM 1-4 Expand networks for food rescue efforts to connect to hunger services.	2

2 Strategy WM 2: **Increase recycling from 5% to 20% of total MSW handled by 2030 in an energy efficient, low emission manner.**

Actions	Implementation Phase
WM 2-1 Develop and enforce ordinances requiring commercial customers to recycle material streams like cardboard, paper, beverage containers, etc https://palebluedot.llc/hartford-cap-policy-examples	1
WM 2-2 Expand community-wide educational efforts on available services, incentives, and facilities as well as proper recycling/ composting/source reduction methods.	1
WM 2-3 Add more recycling options and info on recycling outside of town's system; example: Tetra paks can be recycled for just cost of shipping - closest location VA. Facility in MA that will accept Styrofoam. Sponsor a Terracycle box for hard-to-recycle items.	2
WM 2-4 Increase outreach and education to residents and businesses on proper recycling	2



3

Strategy WM 2:

Decrease total per capita municipal solid waste handled by 5% by 2030.

Actions	Implementation Phase
WM 3-1 Establish a policy to make zero and reduced waste events standard for large community events. Implementation to focus initially on Town of Hartford events with community-wide events as a second phase. https://palebluedot.llc/hartford-cap-policy-examples	1
WM 3-2 Launch a zero waste comprehensive planning process to identify strategies and actions to move the town toward zero-waste.	1
WM 3-3 Expand consumer education on sustainable consumption and materials management, including prevention of wasted food in households and businesses and low-carbon food consumption.	1
WM 3-4 Identify and promote reuse and repair businesses and opportunities which can reduce the disposal of used goods.	1
WM 3-5 Implement town-wide pay-as-you-throw requirement for all curbside trash pickup.	1
WM 3-6 Eliminate petroleum-based, single-use products through phasing out the use of single-use plastics by 2025. Require food service retailers to use biodegradable, compostable or recyclable packaging. Explore the feasibility of establishing a reusable takeout container service	2
WM 3-7 Explore "rating" system or certifications for businesses (especially restaurants) based on waste (and other sustainability) practices. Creates better disclosure for consumer choice and encourages consumers/employees to get involved in seeing where we are now and encouraging even better practices.	2
WM 3-8 Encourage, incentivize, and reward sustainable behaviors (refuse, reduce, reuse) through campaigns and competitions. In addition to general efforts, target high impact times/events such as holidays and weddings. Encourage local businesses to run their own campaigns and competitions for employees.	2
WM 3-9 Promote or require the reduction of resource consumption of the waste collection fleet through efforts such as alternative fuel, fuel efficiency, vehicle optimization, and other new technologies.	2

Waste Management

Planned Waste Management GHG Emission Reductions

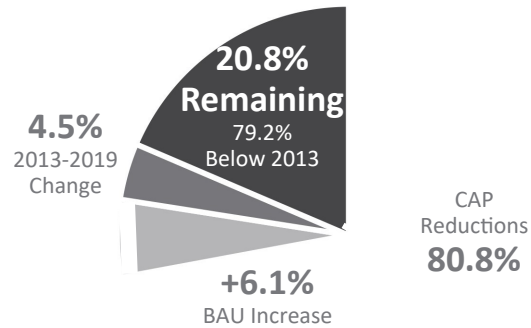
Planned Sector Emission Reductions Through 2030

The strategies and actions included in this section of the Climate Action Plan are projected to reduce the Town's annual GHG emissions by 853 metric tons (MT) by 2030 - an 80.8% reduction over 2013 levels. Previous changes between 2013 and 2019 decreased emissions in this sector by 47 metric tons. Changes in business-as-usual impacts in the future, however, are anticipated to *increase* 64 metric tons. The result is a total community wide Waste Management sector reduction of 79.2% when compared to 2013 levels.

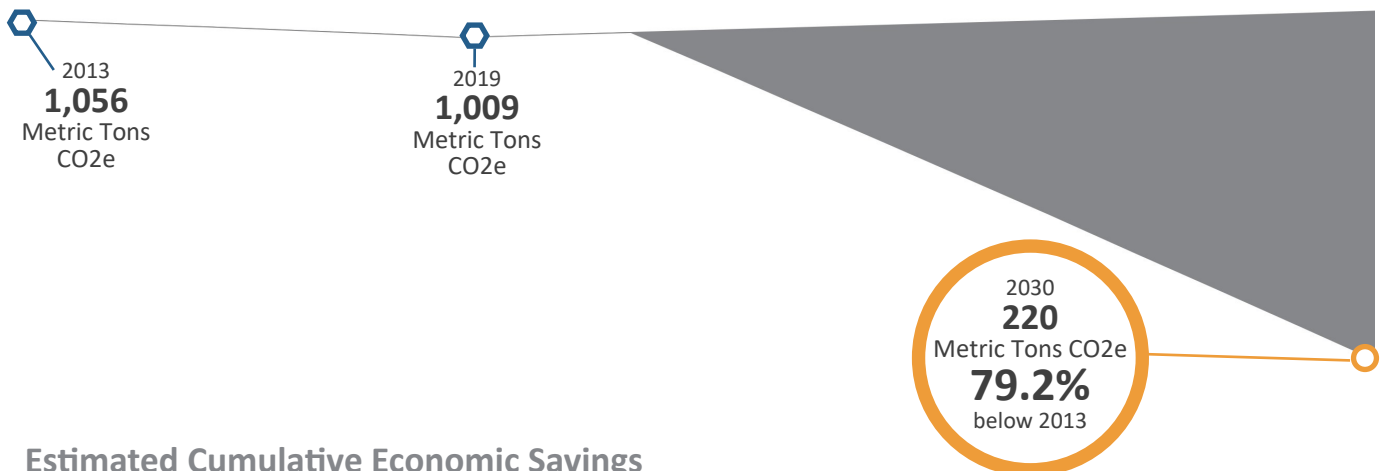
When compared to 2013 emissions, this is equivalent to eliminating 182 cars from the road, or **16.4 million** cubic feet of man-made greenhouse gas atmosphere annually by 2030

Sector Emissions Reduction below 2013 by 2030

The total change to sector emissions include CAP Plan reductions, BAU emission changes, and previous changes between 2013 and 2019 as follows:



Hartford's Waste Management Carbon Reduction Pathway



Estimated Cumulative Economic Savings

Implementing many of the measures in this plan, such as reduction of food waste, material waste, and overall consumption, can save money for the community. The estimated community savings of the goals for this section include

Residential Organics/Food Waste Diversion Savings:

\$5,450,000
\$1,174
 per household

Commercial/Industrial Waste Reduction Savings:

\$1,330,000
\$115
 per job

Estimated Cumulative Savings Potential

\$6,780,000
\$703
 per capita

*Savings for organics/food waste diversion are based on multiplying the estimated pounds of food waste reduced by an estimated value per pound based on "A Roadmap to Reduce US Food Waste" by ReFED. Savings for commercial waste reduction are calculated based on multiplying the estimated number of participating organizations by the average savings per company reported by the MN WasteWise program (a similar initiative). See Appendix for Cumulative Potential Cost Savings Assumptions and data sources.



Waste Management

What You Can Do

You can support the goals of the Waste Management section of the Harford Climate Action Plan as an individual, household, or a business. Here are just a few things you can do:

- Create a composting bin and routine.
- Challenge yourself and your household to eliminate your food waste. Minimize your food waste by first eating what you already have in your fridge. Meal planning and making grocery lists can also reduce your food waste. <https://www.epa.gov/recycle/reducing-wasted-food-home>.
- How much of your waste can you divert to recycling? Challenge yourself and your household to increase your recycling. Make sure to rinse and dry your recyclables; dirty materials contaminate the process and have to be land-filled.
- Carry groceries and other purchases in reusable bags. Remember to bring your bags to the grocery store, farmer's market, and when you go retail shopping.
- Give up single-use plastics by switching to sturdy, reusable items like metal/hard plastic water bottles, cutlery, & to-go containers.
- Choose items with no packaging, minimal packaging, or packaging that is compostable or completely recyclable.
- Give unused clothes and household items (in good condition) to a local nonprofit, neighbor or friend.
- Shop local second-hand and vintage stores.





Section 05 Water + Wastewater



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Water + Wastewater

In Hartford



285 million

gallons of water consumed
in 2019



328 million

gallons of wastewater gen-
erated in 2019



27

Community flooding events
reported in Windsor County
since 2001 (NOAA)



-12.3%

Change in total water con-
sumption since 2013



+11.6%

Change in total wastewater
generation since 2013

Water and Wastewater

Why Water and Wastewater is Important

Water is at the core of climate change and sustainable development. Quality water is vitally important for socio-economic development, maintaining healthy ecosystems, and for human survival. Water is central to the production and preservation of a wide range of services benefiting people. How we process water is also linked to our greenhouse gas emissions. Water related energy use totals 13% of US electricity consumption and has a carbon footprint of at least 290 million metric tons. Meanwhile, wastewater treatment is responsible for 3% of global GHG emissions.

Water is also at the heart of adaptation to climate change. Climate change will increase the likelihood of drought combined with additional heavy rain events, flooding, and flash flooding. Climate change will also result in increased stress on our water systems, increase water pollution potential, and place more risk on maintaining safe water resources. Water is an irreplaceable, critically important resource fundamental to the well-being of our communities. Water can only be considered renewable with high quality best water management practices in place.

According to the USGS “Vermont is fortunate to have abundant freshwater resources. However, as populations have grown (10.6 percent between 1990 and 2015), freshwater resources have come under significant stress in many areas, particularly during periods of drought.”

Water and Energy Nexus

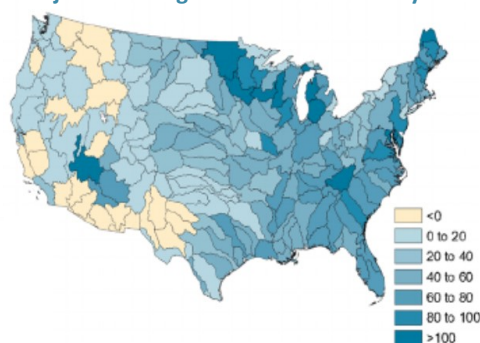
Water and energy are fundamental components of our 21st century life. Production, distribution, consumption, and treatment of water consumes energy. Production of energy - particularly those generated through fossil fuel use - consumes water. The water-energy nexus is the relationship between how much water is used to generate and transmit energy, and how much energy it takes to collect, clean, move, store, and dispose of water. Both fresh water production and waste water treatment are typically the highest energy and carbon emission sources within a community's operations. Reduction of water demand saves energy not only in the production and distribution of fresh water but also in the collection and treatment of wastewater.

Regional Water Stress

By 2025, an estimated 1.8 billion people will live in areas plagued by water scarcity, with two-thirds of the world's population living in water-stressed regions. Since 1985 the Hartford region has had a reduction in water yield of approximately 10%. Through 2050, the Town can anticipate an increase in water demand of 20%.

(Sources: “Adaptation to Future Water Shortages in the United States Caused by Population Growth and Climate Change”, World Resources Institute, USGS).

Projected Change in Water Demand by 2050



Climate Change Considerations



Climate Impacts

This sector impacts climate change through fossil fuel use to generate the electricity required to process and distribute water.



Climate Hazards

Hazards to the water and wastewater system include damage to infrastructure from extreme weather and flooding. Town-wide hazards include increased flooding and flash flooding potential.



Water and Wastewater

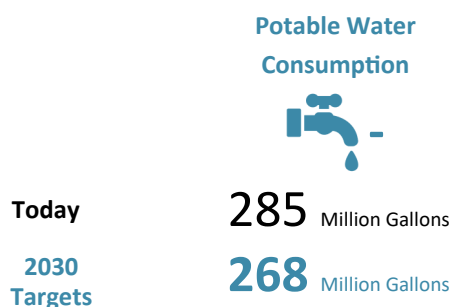
Equity Considerations

- Low-income neighborhoods frequently suffer more damage from flooding, according to studies by the National Academies of Sciences, Engineering and Medicine (*Framing the Challenge of Urban Flooding in the United States*, 2019). The frequency and magnitude of heavy rain events is expected to increase as a result of a changing climate, making the future flooding impacts for at-risk neighborhoods potentially more acute. Hartford can look to the damages experienced in recent extreme weather events such as hurricane Sandy for a better understanding of areas of higher vulnerability throughout Hartford.
- Disadvantaged communities within cities often have denser populations, more impervious surfaces, and less open/green spaces. These areas can also be prone to flooding and sewer overflows. Stormwater management through the creation of open, green spaces serve to revitalize and promote health within these disadvantaged communities.

Town-Wide Water and Wastewater Targets

Supporting Sector Goals

Sector goals are established to both support the Town's Climate Action Plan in creating a climate resilient community and to reduce Town-wide GHG emissions.



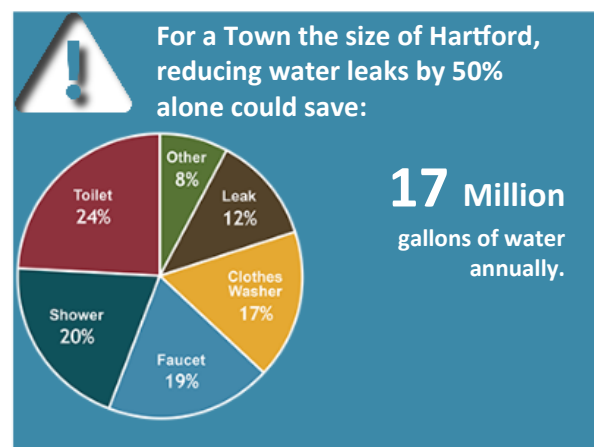
Strategies Supporting Sector Goals

Sector goals related to GHG emissions reductions are designed to balance reduction across all sectors and achieve the overall emissions goals set forth for the community. The goals seek to strike a balance between achievability while also reaching -for improvement beyond business-as-usual.

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Implementation of actions are anticipated to be initiated over 3 phases: phase 1 within 1-2 years, phase 2 within 2-5 years, and phase 3 within 3-7 years of CAP approval.

Water Conservation Potential



Source: Water Research Foundation, Residential End Uses of Water, Version 2. 2016

- 1 **Strategy W 1:** Promote increased water conservation Town Wide with a targeted reduction of 6% (water and wastewater) by 2030.
- 2 **Strategy W 2:** Mitigate the projected increased flood hazards and impacts due to climate change.
- 3 **Strategy W 3:** Increase stormwater and wastewater treatment capacity to meet newly defined criteria of major storm and climate events by 2027.

1 Strategy W 1: Promote increased water conservation Town Wide with a targeted reduction of 6% (water and wastewater) by 2030.

Actions	Implementation Phase
W 1-1 Implement or expand water leak detection within municipal water supply system with the goal of reducing water leaks by 50% by 2030. Resources: https://cutt.ly/8brg1ad https://cutt.ly/lbrhdp4	1
W 1-2 Facilitate reduction of water use by top 20 customers through an opt-in program. Offer free technical resources to large institutions and businesses to identify specific opportunities for employees or customers to conserve water and incorporate water efficiency into internal operations.	1
W 1-3 Implement a policy to require installation of rainwater collection systems and Water-Sense water efficient fixtures and appliances at all municipal facility projects and all projects receiving support from the Town including tax abatement, financing, funding, PUD, or Conditional Use Permits. Provide information and technical assistance to projects as needed. https://palebluedot.llc/hartford-cap-policy-examples	1
W 1-4 Encourage the installation of low-flow water fixtures in residential homes and expand the program to commercial businesses.	1
W 1-5 Explore creation of an ordinance requiring moisture sensors with all new irrigation systems installed in the town. https://palebluedot.llc/hartford-cap-policy-examples	2
W 1-6 Reduce landscaping water use by encouraging water-efficient irrigation systems, grass replacement, planting native and drought-resistant trees and vegetation, soil amendments, and proper tree watering. Consider requiring these approaches during the permitting process.	2

2 Strategy W 2: Mitigate the projected increased flood hazards and impacts due to climate change.

Actions	Implementation Phase
W 2-1 Promote native landscaping, restore and conserve habitat; encourage rain gardens on private property, avoid turf grass, and convert Town-owned space to include stormwater absorption features.	1
W 2-2 Manage upstream flows to minimize downstream flood risk, such as through habitat protection, restoration, or land use regulations.	1
W 2-3 Establish policies or ordinances to prevent new infrastructure in floodplain and Channel Migration Zone (CMZ) areas.	2
W 2-4 Increase stream buffer requirements to provide additional flood water storage and minimize property damage due to erosion and flooding.	2
W 2-5 Continue to restore and maintain streams, including removing and controlling invasive species in riparian buffers, to accommodate increased rain events. Stream restoration can reduce the likelihood and magnitude of flooding and support healthy habitat.	2



2

Strategy W 2:

Mitigate the projected increased flood hazards and impacts due to climate change. (Continued)

Actions

Implementation

Phase

W 2-6 Encourage more permeable parking lots and driveways and use more recycled materials with concrete.

2

W 2-7 Periodically update a flood risk assessment using historical data and future precipitation forecasts to identify areas and critical infrastructure vulnerable to flooding

2

3

Strategy W 3:

Increase stormwater and wastewater treatment capacity to meet newly defined criteria of major storm and climate events by 2027.

Actions

Implementation

Phase

W 3-1 Develop a town Stormwater Master Plan to mitigate stormwater impacts due to current and projected increases in precipitation and extreme weather events as well as development and redevelopment of properties currently exempted from stormwater management requirements. Master Plan should strive to go beyond baseline regulatory requirements and include green infrastructure with the goal of eliminating Combined Sewer Overflows. Plan should look to the damages experienced in recent extreme weather events such as hurricane Sandy for a better understanding of areas of higher vulnerability throughout Hartford

1

W 3-2 Prioritize managing stormwater before it enters the sewer system through a combination of overland flow, detention, and infiltration strategies (for example, permeable surfaces)

1

W 3-3 Strategically use available funding programs to improve stormwater management.

1

W 3-4 Enhance stormwater systems to handle an increase in severe weather events.

1

W 3-5 Update town review of culverts and replace those that are inadequate. Continue to explore ways to divert stormwater from the sewer.

1

Planned Water and Wastewater GHG Emission Reductions

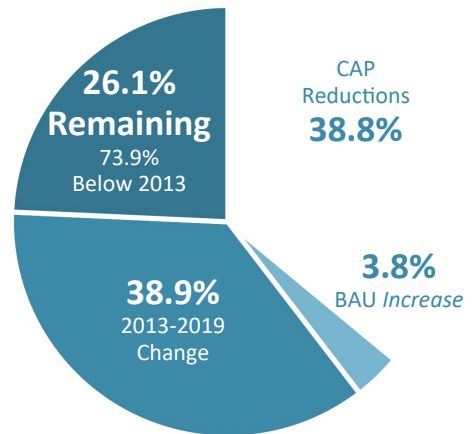
Planned Sector Emission Reductions Through 2030

The strategies and actions included in this section of the Climate Action Plan are projected to reduce the Town's annual GHG emissions by 283 metric tons (MT) by 2030 - a 26.1% reduction over 2013 levels. Previous changes between 2013 and 2019 decreased emissions in this sector by 47 metric tons. Changes in business-as-usual impacts in the future, however, are anticipated to *increase* 28 metric tons. The result is a total community wide Water and Wastewater sector reduction of 73.9% when compared to 2013 levels..

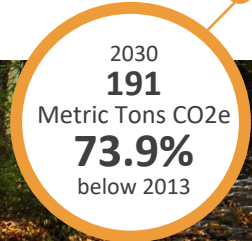
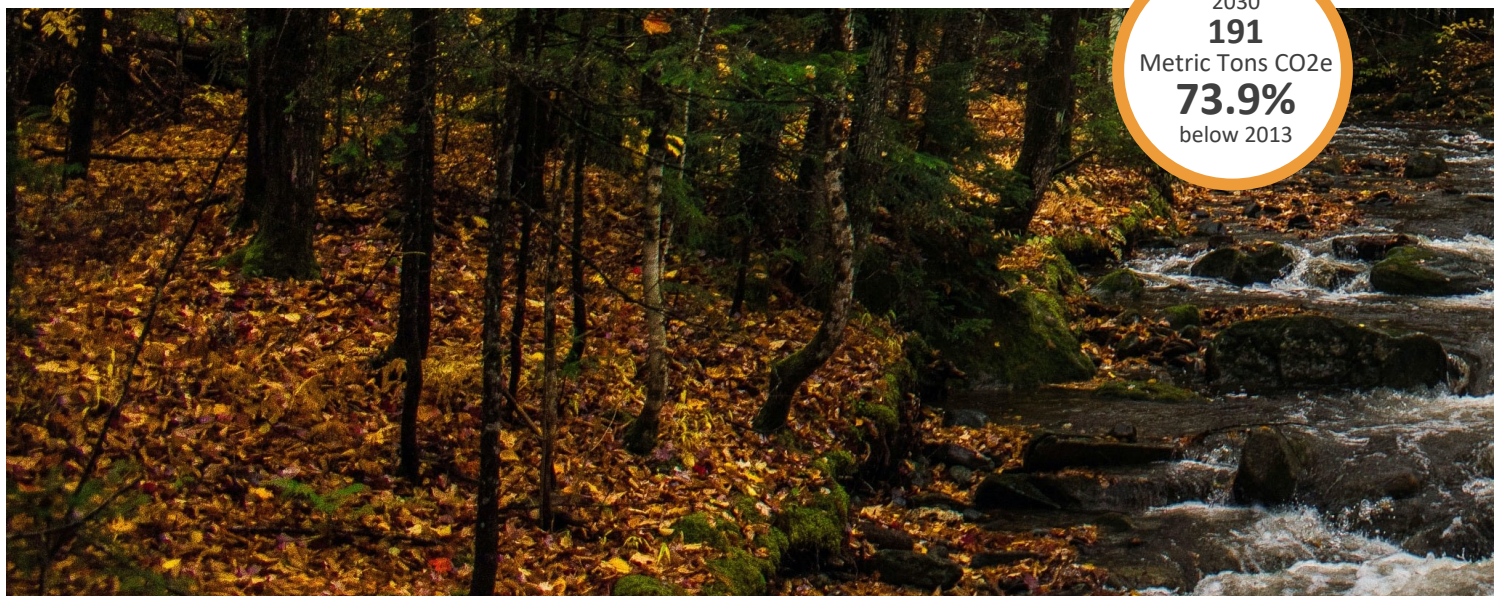
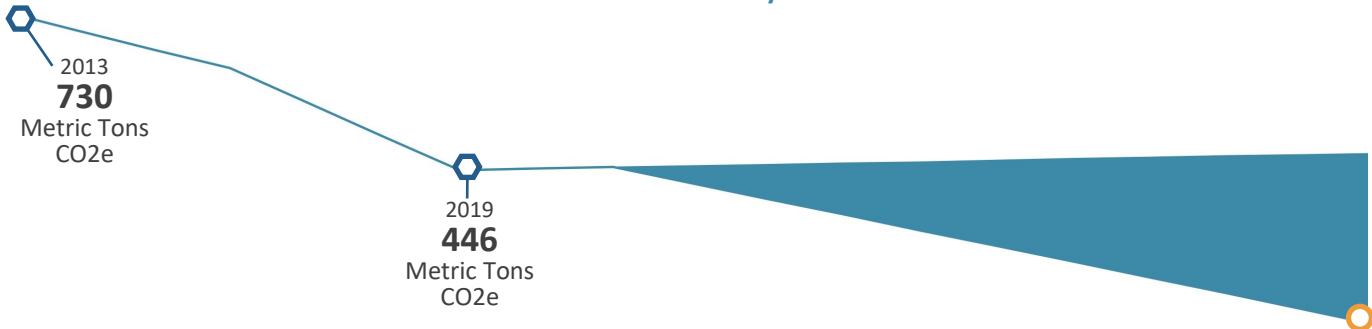
When compared to 2013 emissions, this is equivalent to eliminating 66 cars from the road, or **10.6 million** cubic feet of man-made greenhouse gas atmosphere annually by 2030.

Sector Emissions Reduction below 2013 by 2030

The total change to sector emissions include CAP Plan reductions, BAU emission changes, and previous changes between 2013 and 2019 as follows:



Hartford's Water and Wastewater Carbon Reduction Pathway



What You Can Do

You can support the goals of the Water and Wastewater section of the Hartford Climate Action Plan as an individual, household, or a business. Here are just a few things you can do:

- Collect rainwater and use it for indoor and outdoor plants.
- Install — or have a licensed plumber install — water-saving aerators on 2 or more showerheads and faucets.
- Install — or have a licensed plumber install — a water-saving low-flow toilet.
- Replace your lawn or portions of your lawn with drought resistant native plantings, prairie grasses, and wild flowers and eliminate or greatly reduce exterior watering.
- Turn off the faucet while brushing your teeth.
- If you have dishwasher, use it. Research shows we use more water washing dishes by hand than running a full or nearly full dishwasher.
- If you have a lawn and garden irrigation system, or use hoses and sprinklers, water thoroughly less often, and do so in the early morning or evening.



Section 06

Local Food + Agriculture



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Local Food In Hartford



2

Community gardens



10.4%

Food insecurity in Windsor
County



3,262 acres

Crop and pasture land in
Hartford

Local Food and Agriculture

Why Local Food and Agriculture Are Important

Food and climate change are directly linked. For nutritionally insecure people, climate change is a threat multiplier. Extreme weather events, extreme temperature variations, changes in precipitation, changing soil temperatures and other climate impacts will affect crop yields. Climate impacts can also introduce interruptions in the current food processing and distribution system. Disruptions that occur in the food system are likely to cause food availability or pricing fluctuations.

Our choices about what we eat and where our food comes from also directly impact our personal and community greenhouse gas emissions. Transporting food across long distances burns fossil fuels and emits greenhouse gases. In addition, the extended period of time of long-distance transport increases the need for refrigeration. The less transportation and refrigeration needed to supply us our food, the more sustainable it becomes.

Strengthening local food sources can address both climate change relationships with food and also supports your small business local economy. Studies have indicated that nearly 32 jobs are created for every \$1 million in revenue generated by produce farms involved in a local food market, compared to only 10.5 jobs for those involved in wholesale channels exclusively. Increased local food systems also increase community resilience. A robust local food system establishes additional supply chains and resilience to distribution disruptions. Healthy local food systems can also play a critical role in addressing food access vulnerability and food insecurity within neighborhoods of higher vulnerability. Increased local food systems also tend to increase diversity and long-term food system resilience in food crops cultivated.

Climate Change Considerations



Climate Hazards

Hazards to the local food and agriculture system include reduced crop quality and yield, vulnerability to pests and soil moisture as well as fluctuation in availability, food price volatility and change.



Opportunities

Increased capacity of local food and agriculture systems and improved farm-to-table approaches can reduce community food insecurity while creating local jobs and improved community resilience.

Community Gardens In Hartford

(White River Junction and Quechee)



Community Gardens Per 100,000 Residents

United States: 18,000 Total (est)	5.5
State of Vermont: 500 Total	0.8
Town of Hartford: 2 Total	20.7

(Sources: American Community Gardening Association, Vermont Community Garden Network)

Equity Considerations

- People in low-income neighborhoods may have limited access to full-service supermarkets or grocery stores - an area known as a “food desert.”
- Studies have also shown that communities with fewer resources often have more outlets that promote unhealthy dietary behaviors such as fast food restaurants, and little access to affordable nutritious food. This condition is known as a “nutrition desert.”



Local Food and Agriculture

Strategies Supporting Sector Goals

As indicated in the introduction, the Climate Action Plan is intended to be a 9 year plan to be updated at the completion of that time. Consequently, the goals and strategies outlined in this section are intended to be achieved by 2030 (or earlier) unless otherwise noted.

Implementation of actions are anticipated to be initiated over 3 phases: phase 1 within 1-2 years, phase 2 within 2-5 years, and phase 3 within 3-7 years of CAP approval.

- 1** **Strategy LF 1:** Increase production of local food, particularly serving low income and food insecure individuals.
- 2** **Strategy LF 2:** Increase access to local food.
- 3** **Strategy LF 3:** Reduce food waste and hunger, achieve a 50% reduction in food insecurity community-wide by 2030.
- 4** **Strategy LF4:** Increase local agricultural resilience to climate shocks.

1 Strategy LF 1: Increase production of local food, particularly serving low income and food insecure individuals.	
Actions	Implementation Phase
LF 1-1 Review ordinances and zoning relative to their impact or impediment on residents producing their own food, particularly within multi-family developments. https://palebluedot.llc/hartford-cap-policy-examples	1
LF 1-2 Review/Update code to provide incentives for multi-unit buildings and developments/sub-divisions and commercial developers to preserve topsoil and provide space for backyard or community gardens.	1
LF 1-3 Support existing school and community gardens and provide opportunities to expand community growing spaces located within neighborhoods and locations that serve youth, immigrant, and low-income residents.	1
LF 1-4 Integrate sustainable food system issues that affect climate into land use planning processes and, where practical, incorporate quantitative goals and metrics.	2
LF 1-5 Support organizations and schools promoting local food production and community gardens, through partnerships, funding, and educational programs on the benefits of a plant-based diet and the importance of locally sourced, humanely raised meats for any meats consumed.	2
LF 1-6 Equitably promote educational opportunities for residents to gain skills in organic gardening, fruit production, food preservation and cooking and affordable, healthy eating	2
LF 1-7 Work with community organizations and neighborhood groups to organize a garden-tool lending program and garden bounty exchange program.	2

2 Strategy LF 2: Increase access to local food.

Actions		Implementation Phase
LF 2-1	Analyze existing Municipality and school purchasing and procurement policies and explore creating a preference for purchasing locally grown foods.	1
LF 2-2	Create collaborative partnerships with community-based organizations and affinity groups, including low-income populations and communities of color, to: a) Promote healthier, low-carbon diets. b) Encourage local food production. c) Support affordability and access to healthier foods through neighborhood food buying clubs and co-ops. d) Reduce food waste.	1
LF 2-3	Develop edible landscaping initiatives to educate residents about these local food resources and to showcase the variety of plants that can grow in the town.	2
LF 2-4	Establish a public Food Forest by adding edible trees, shrubs, and planting regionally native vegetables to existing public landscaping. Select an existing property for a pilot project. (https://burnsvillemn.gov/2271/Grow-Burnsville https://projectfoodforest.org/)	2
LF 2-5	Incentivize installation of permaculture and urban agriculture boulevard gardens on private property; and install permaculture and urban agriculture boulevard gardens and rain gardens on Town-owned lands and promote food harvests benefiting Town residents, particularly within at-risk communities	2

3 Strategy LF 3: Reduce food waste and hunger, achieve a 50% reduction in food insecurity community-wide by 2030.

Actions		Implementation Phase
LF 3-1	Support the development of education strategies in collaboration with existing groups for teaching town residents about growing, harvesting, cooking, and processing local agricultural goods and subsistence resources in neighborhoods most at risk of food insecurity.	1
LF 3-2	Support the research of regional work to implement an end-to-end food waste reduction and recovery technology infrastructure to support recovery of food for human consumption (see: Austin / Travis County Food Policy Board Recommendation 20170522-2) https://palebluedot.llc/hartford-cap-policy-examples	2
LF 3-3	Partner with schools and other organizations to create “edible school yards” and sustainable gardening programs at public and private schools.	2



4 **Strategy LF 4:** Increase local agricultural resilience to climate shocks.

Actions	Implementation Phase
LF 4-1 Collaborate with the State, universities, local organic farmers associations and others to encourage adoption of strategies to increase soil health and increased carbon sequestration for Croplands and Grazing Lands. Tools: http://www.comet-farm.com/GHG and Carbon Sequestration Ranking Tool: https://cutt.ly/Vf04djN https://www.farmcarbontoolkit.org.uk/	1
LF 4-2 Incentivize and reward soil best management practice for urban lawns, gardens, landscaping, parks, open spaces, prairies, environmentally sensitive areas, and agricultural land uses.	2
LF 4-3 Develop and deliver educational materials for producers that will assist them in understanding the differences between normal weather fluctuations and long term climate change, as well as provide information on the agricultural crops, varieties, and methods most suitable for our area.	2

What You Can Do

You can support the goals of the Local Food and Agriculture section of the Hartford Climate Action Plan as an individual, household, or a business. Here are just a few things you can do:

- Eat a plant-rich diet. Animal products are extremely GHG-intensive to produce compared to plants. Eating less meat and dairy will reduce emissions associated with food consumption. Eating regionally-grown food that is suitable for the Vermont climate will also make a difference through reduced transportation-related emissions. A great place to start is with “Meatless Mondays” or one meat-free meal a day. <https://ourworldindata.org/food-choice-vs-eating-local>
- Support your local farmers markets.
- Rent a plot at your local community gardens and grow your own.
- Buy food directly from a local grower on an ongoing basis by joining a Community Sponsored Agriculture (CSA) group or frequenting the farmer’s market.
- Plant fruit or nut bearing trees or shrubs that are well suited for our hardiness zone on your property. Examples include: Trees: Apple, Black Cherry, Pear, Serviceberry, Black Walnut, Shagbark Hickory
- Support restaurants and grocery stores that use and sell locally-grown food.
- Buy food that is in season, minimizing the distance food must travel.
- Buy ethically grown and harvested food, like fair-trade coffee and chocolate.

Section 07

Greenspace and Trees



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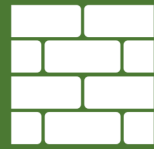


Greenspace In Hartford



65%

Forest coverage



10%

Estimated Impervious surface
coverage



136 acres

Estimated maintained lawn
coverage

Greenspace and Trees

Why Greenspace and Trees Are Important

Human activities coupled with natural variations in the carbon cycle, have resulted in a significant increase in the concentration of carbon dioxide (CO₂) and other “greenhouse gases” in the atmosphere, thus causing measurable global warming. Controlling atmospheric CO₂ requires deliberate action that combines reducing emissions and increasing storage, while planning for adaptation to the changes that result. Part of this Climate Action Plan addresses ways that greenspace protection and enhancement is one of Hartford’s most important avenues for lowering our environmental footprint.

Greenspace, plays a central role in supporting community health, improving air, soil, and water quality, reducing energy use in buildings, and supporting climate-change mitigation. An urban greenspace includes any permeable vegetated surface, public or private, set apart for recreational, aesthetic, or ecosystem services (EC) in an otherwise urban environment. It is space set aside for providing life-essential benefits people and other living things obtain from properly-functioning ecosystems. The key benefits and services greenspaces provide include:

- Carbon sequestration: Plants on land convert carbon dioxide into biomass (leaves, stems, etc.) through photosynthesis. If more plants grow in more places, they will remove more CO₂ from the atmosphere.
- Stormwater infiltration and flood mitigation: Greenspace helps protect from flash flooding by absorbing water through roots and slowing down rainwater running off.
- Reduce the urban heat island effect: The more vegetated greenspace we have in Hartford, the better the cooling effects. High levels of impervious surfaces (a surface that does not allow water to infiltrate such as pavement and buildings) results in an increased urban heat island effect, which raises the temperature of the near-surface air, buildings, and pavement higher than the surrounding areas.
- Purify and humidify the air: Plants purify the air when they absorb light, carbon dioxide, and water to manufacture sugar.
- Support pollinators: Animal species that pollinate plants, termed pollinators, carry pollen, either accidentally or intentionally, from the male part of a flower to the female part of the same or another flower. Pollinators play a critical role in maintaining the health of our greenspace, species diversity, and food chain. It is estimated that a minimum of 35% of all of our food directly relies on pollinator species health.

Climate Change Considerations



Climate Hazards

Projected climate change impacts may cause forests and urban trees to experience increased mortality and reduced productivity, more prevalent invasive species and disease all resulting in forest and tree loss, reduction in crop yield. Loss of greenspace, in turn, reduces carbon capture potential of green infrastructure.



Opportunities

Many strategies within the Greenspace sector can advance community resilience and quality of life. Increased tree canopy, decreased impervious surfaces, and increased utilization of native grasses and plantings can reduce heat island experiences, energy consumption, stormwater runoff, and flood impacts.

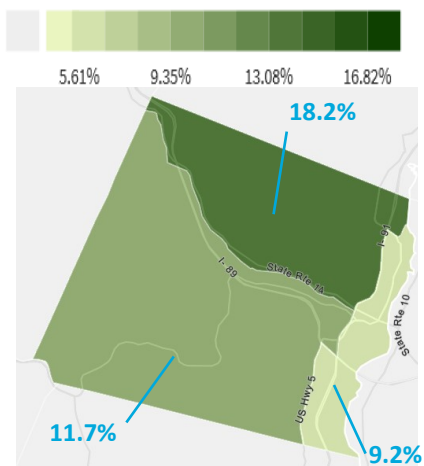


Greenspace and Trees

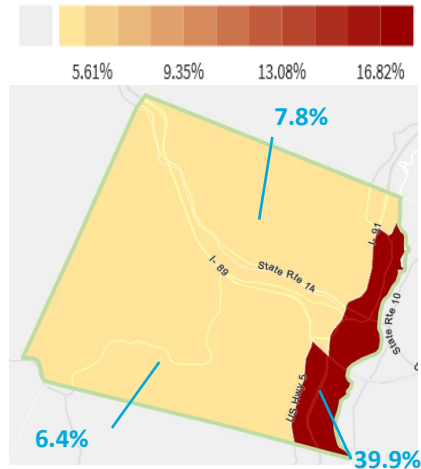
Hartford's Heat Island Contribution

Higher levels of impervious surfaces (pavement and buildings) within a community will increase the heat island of the community. Heat island refers to the phenomenon of higher atmospheric and surface temperatures occurring in developed areas than those experienced in the surrounding rural areas due to human activities and infrastructure. Increased heat indices during summer months due to heat island effects effectively raise human discomfort and health risk levels in developed areas, especially during heat waves. Based on a 2006 study done by Minnesota State University and the University of Minnesota, the relationship between impervious surface percentage of a City and the corresponding degree of heat island temperature increase can be understood as a ratio.

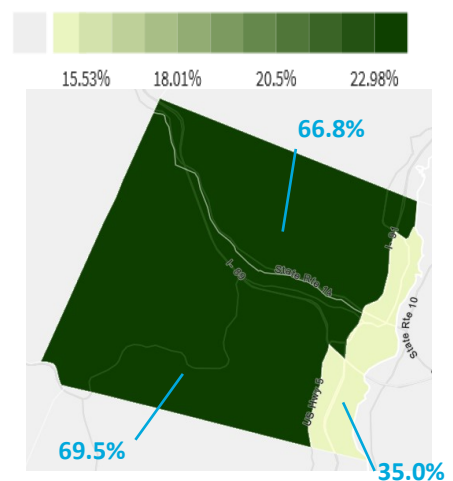
Croplands and Grasslands
Town-wide by Census Tract



Impervious Surfaces
Town-wide by Census Tract



Tree Canopy Coverage
Town-wide by Census Tract



Equity Considerations

- Lower income neighborhoods and neighborhoods with higher proportions of people of color regularly have lower tree canopy coverage, and the environmental, economic, and quality of life benefits trees support than more affluent neighborhoods.
- “Heat islands” and “micro heat islands” are built up areas that are hotter than other nearby areas. This is caused by lack of adequate greenspace and healthy tree canopy coverage combined with too many hard surfaces like roads, parking lots, and hard building surfaces. Frequently neighborhoods with higher vulnerable populations have the highest heat island impacts.

Strategies Supporting Sector Goals

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- 1 **Strategy GT 1:** Increase Tree Cover and Diversity, achieve an increase of 90 acres by 2030 (approximately 3% of developed land area).
- 2 **Strategy GT 2:** Increase the use of Native Species and Pollinator Restorations Areas with a targeted conversion of 10% of Town-wide lawn coverage.
- 3 **Strategy GT 3:** Reduce Micro-Heat Island Effect through Town-Wide impervious surface reduction of 2% by 2030.
- 4 **Strategy GT 4:** Care for forest and wildland Trees to enhance their resilience to climate change and capacities for carbon sequestration.
- 5 **Strategy GT 5:** Increase the resilience of the urban tree canopy and greenspaces to climate change impacts.



1

Strategy GT 1:

Increase Tree Cover and Diversity, achieve a Town-wide Tree Canopy/Forest coverage increase of 90 acres by 2030 (approximately 3% of developed land area).

Actions

Implementation

Phase

GT 1-1	Create a comprehensive community tree plan. A community tree plan would focus on increasing urban canopy cover and include elements such as 1) conducting an inventory of street trees and community-wide canopy cover in each of the villages, 2) determining canopy goals, 3) developing a planting guide that prioritizes carbon sequestration, resilience, and other equitably-distributed co-benefits, and 4) devising a plan for retiring trees and addressing unintended consequences such as sidewalk uplifts. The plan should also include potential ways to support trees on private property	1
GT 1-2	Preserve existing forested areas through practices that re-purpose already developed areas, such as establishing codes that retain minimum canopy cover on new developments and minimize removal of native soil, ground cover, and shrubs	1
GT 1-3	Support current development regulations to recommend or require the use of appropriate native trees and plants for new and redevelopment.	1
GT 1-4	Adopt a No Net Loss policy for street trees and other publicly owned trees—every public tree that is removed shall be replaced by a tree of sufficient size (minimum 2” caliper). If a tree is removed in a location in which it is not feasible to replant, a new tree shall be planted in a nearby void space https://palebluedot.llc/hartford-cap-policy-examples	2
GT 1-5	Partner with local sustainability organizations to foster public volunteer efforts to maintain and grow park systems and green infrastructure, through tree plantings and integrated invasive species control. These programs could help contain costs and foster public involvement. Potentially hold partnered events on environmentally focused holidays such as May Day, Arbor Day, Earth Day, solstices, Mother’s Day, Father’s Day, etc	2
GT 1-6	Explore options for public and private partnerships to help reduce or share the cost of tree planting and maintenance	2

2

Strategy GT 2:

Increase the use of Native Species and Pollinator Restorations Areas with a targeted conversion of 10% of Town-wide lawn coverage to pollinator restoration coverage.

Actions		Implementation Phase
GT 2-1	Transition maintenance of all Town owned properties to Carbon Gardening practices including elimination of synthetic fertilizer and pesticide use, high mow deck settings, use of biochar amendments, and native pollinator restorations or polyculture lawn mixture.	1
GT 2-2	Require the use of native plants in landscaping at Town-owned properties	1
GT 2-3	Remove and ease lawn/grass requirements in ordinances as applicable.	1
GT 2-4	Encourage the use of low-impact landscaping, to reduce consumption of water in yard maintenance and improve permeability and reduce stormwater runoff	2
GT 2-5	Enhance the connectivity of greenbelt and habitat corridors across the community	2
GT 2-6	Promote the conversion of portions of manicured lawns to restored native species/ wild flower grasses	2
GT 2-7	Manage publicly-owned natural areas to enhance and maintain diverse native communities	2
GT 2-8	Develop a list of invasive non-native plants commonly used in landscaping and proven to seriously reduce diversity of native plants and wildlife. Adjunct to this list, provide native alternatives to each non-native species. Publicize this list widely and encourage plant nurseries and landscapers to provide the native alternatives	2



3

Strategy GT 3:

Reduce Micro-Heat Island Effect through Town-Wide impervious surface reduction of 2% by 2030 and 5% by 2040.

Actions		Implementation Phase
GT 3-1	Promote the expansion of tree canopy in urban heat islands or areas that need air conditioning such as schools	1
GT 3-2	Evaluate opportunities to plant additional trees near Town facilities to reduce heat island.	1
GT 3-3	Develop a policy that requires all commercial development projects receiving Town funding, PUD approval, and/or Conditional Use Permitting to implement commercial scale heat island mitigation strategies including cool surfaces, solar-friendly landscape shading strategies, impervious surface reduction, and breeze capture. Reference Town's Net Zero Energy Building Guide for relevant strategies (see Buildings and Energy actions). https://palebluedot.llc/hartford-cap-policy-examples	2
GT 3-4	Establish a Green Roof policy to promote and advance the development of green roofs on existing buildings and new construction. Encourage rooftop garden / farm installations which advance food security. Examples of incentive programs can be found at: https://cutt.ly/KkmZLDE https://palebluedot.llc/hartford-cap-policy-examples	2

4

Strategy GT 4:

Care for forest and wildland ecosystem health (considering western and indigenous practices) to enhance their resilience to climate change and enhance their capacities to sequester and store carbon.

Actions		Implementation Phase
GT 4-1	Support efforts to protect and restore extended riparian corridors to maintain wildlife and fish habitat, including efforts to reestablish historical surface channels and connectivity	1
GT 4-2	Extend an invitation to the local indigenous leaders and community to fully participate in the Hartford CAP implementation.	1
GT 4-3	Use green infrastructure such as bioswales, permeable pavement, other pervious surfaces to reduce flood risk and minimize sediment entry into creeks and rivers from trails and roads	1
GT 4-4	Use a diverse selection of native tree species in new plantings, particularly those that will be most resistant to the stresses of climate change: e.g., oak species, hickory species, hackberry, serviceberry, American hornbeam, American sycamore, linden, black gum, and chestnuts (disease-resistant hybrids)	2
GT 4-5	Promote and expand invasive weed pulls, tree plantings, invasive species identification and management, wildfire mitigation, and other educational activities that promote stewardship among the public, businesses, and homeowners	2
GT 4-6	Manage forests to retain biodiversity, resilience, and ecosystem function and services in the face of climate change. Use best available science to inform fire management and planning to manage ecosystem health, community safety, and carbon storage	2

5

Strategy GT 5:

Increase the resilience of the urban tree canopy and greenspaces to climate change impacts.

Actions		Implementation Phase
GT 5-1	Increase the diversity of urban tree species to improve overall urban forest resilience	1
GT 5-2	Prioritize planting and preservation of native species of plants and trees on public and private property through education, incentives and other promotional programs. Ensure that landscaping requirements articulated in the zoning code include the preservation of the maximum possible tree cover, the use of native plantings and the preservation of natural areas whenever possible; also, reduction of lawn space	1
GT 5-3	Improve the ecological functionality of and resiliency of parks and open space through green infrastructure, best practices for stormwater management, and increased plant diversity and pollinator-friendly habitat	2
GT 5-4	Update the Town's approved street tree guide and landscape design standards for new development for tree species appropriate for a future local climate.	2
GT 5-5	Cooperate with county, township, and urban governmental agencies, schools, clubs, libraries, neighborhoods, faith communities, and NGOs to provide and publicize workshops on gardening, landscaping, composting, and their importance in mitigating and adapting to the stresses of climate change on quality of life	2



What You Can Do

You can support the goals of the Greenspace and Trees section of the Hartford Climate Action Plan as an individual, household, or a business. Here are just a few things you can do:

- Plant a rain garden with native plantings to absorb storm water and replenish our aquifers.
- Plant trees in your yard to provide shade and cooling in summer heat. Select trees suited for the changing climate of Hartford.
- Replace your lawn and landscape with drought-resistant, native or well-adapted, non-invasive plants.
- Make your backyard a Certified Wildlife Habitat with the National Wildlife Federation. www.nwf.org/garden-for-wildlife/certify
- Remove pavement and increase permeable surfaces. De-pave areas wherever possible to encourage stormwater infiltration onsite.
- Install bioswales/rain gardens or rainwater diversion systems to reduce impact on the stormwater system.
- Install a Green Roof (living roof) to reduce your energy consumption. Decrease heat island impacts, and reduce stormwater runoff.





Section 08 Health and Safety



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Climate Health + Safety In Hartford



+4-5°F

Increase in temperature by
2050



+30% more

Air conditioning demand by
2050



+20-26 days

Longer allergy season by
2050

Why Health and Safety Are Important

There is a strong relationship between human health and environmental health. From the air we breathe to the water we drink and use, life here on Earth depends on the natural resources and the environment around us. This link between the environment and human health is a critical consideration of the impacts of climate change. As outlined in the Town's Climate Risk and Vulnerability Assessment, changes in climate, such as higher average temperatures and increased storm frequency and intensity, can intensify public health stressors. These climate change impacts endanger public health and safety by affecting the air we breathe, the weather we experience, our food and water sources, and our interactions with the built and natural environments. As the climate continues to change, the risks to human health continue to grow.

The health of our environment affects our public health, and agencies should promote it as such. There is a direct relationship between climate action and community health because the health of our environment affects public health.

Equity Considerations—Vulnerable Populations

Climate change impacts the health of all community members, however, people within our communities are differently exposed to hazards and some are disproportionately affected by the risks of climate change. According to the National Climate Assessment, greater health risks related to climate impacts can be experienced by some populations in our communities including children, older adults, low-income communities, and some communities of color. Others, like children, older adults, low-income communities, some communities of color, and those experiencing discrimination are disproportionately affected by extreme heat and weather events, and many have increased health and social vulnerability which decreases their access to resources that can help them avoid the risks of climate change.

According to the National Climate Assessment (<https://nca2018.globalchange.gov/chapter/14/>):

Additional populations with increased health and social vulnerability typically have less access to information, resources, institutions, and other factors to prepare for and avoid the health risks of climate change. Some of these communities include poor people in high-income regions, minority groups, women, pregnant women, those experiencing discrimination, children under five, persons with physical and mental illness, persons with physical and cognitive disabilities, the homeless, those living alone, Indigenous people, people displaced because of weather and climate, the socially isolated, poorly planned communities, the disenfranchised, those with less access to healthcare, the uninsured and underinsured, those living in inadequate housing, and those with limited financial resources to rebound from disasters.

Climate Change Considerations



Climate Hazards

Climate stressors include increases in the frequency and intensity of poor air quality days, extreme high temperature events, heavy rainfalls, extended pollen seasons, changed distribution of disease carrying pests.



Opportunities

Strategies which improve community connect- edness, mobility, community resilience through healthy lifestyles frequently coincide with climate mitigation measures such as improved pedestrian safety and low income home weath- erization.



Hartford Vulnerable Populations Risk Sensitivity Chart

The following identification of Hartford population climate vulnerabilities is excerpted from the Hartford Climate Vulnerability Assessment.

		Primary Risks to The Population								Economic Vulnerabilities				
Population		 Extreme Weather / Temp	 Flood	 Air Quality	 Vector-Borne	 Food Insecurity	 Water Quality	 Waterborne	 Power Failure	 Crop Yield	 Mortality	 Energy Costs	 Property Crime	 Violent Crime
children	476	476		476	476	476		476	476	476				
seniors	2,435	2,435	2,435	2,435	2,435	2,435			2,435	2,435	2,435	2,435	2,435	
disabled	1,773	1,773	1,773	1,773	1,773	1,773			1,773		1,773	1,773	1,773	
Est Total Low Income	2,185	2,185	2,185	2,185	2,185	2,185	2,185	2,185	2,185	2,185		2,185	2,185	2,185
POC	659	659	659	659	659	659	659	659	659			659	659	659
Limited English	71	71	71	71	71	71		71	71	71		71	71	71
Composit At-Risk Workers	843	843	843	843	843			843						843
No Vehicle Access	337	337	337	337		337			337	337				
Total by category		8,779	8,303	8,779	6,669	7,936	2,844	4,234	7,936	5,504	4,684	7,599	7,123	3,758
percentage of Vuln pop		100.0%	94.6%	100.0%	76.0%	90.4%	32.4%	48.2%	90.4%	62.7%	53.4%	86.6%	81.1%	42.8%
Rank by Vuln		1	1	1	3	2	6	4	2	4	4	2	3	5
Percentage of Tot Pop		90.7%	85.8%	90.7%	68.9%	82.0%	29.4%	43.7%	82.0%	56.9%	48.4%	78.5%	73.6%	38.8%

Based on the total estimated population count for each vulnerable population and considering the risks each demographic is most sensitive to, the population vulnerabilities can be considered from highest sensitivity (more vulnerable individuals) to lowest (fewer vulnerable individuals) sensitivity. It should be noted that risks which appear to have lower sensitivity levels should not be considered irrelevant for the community.

Prioritizing Risk and Vulnerable

Climate change impacts will affect everyone and Town policies and actions should consider climate adaptive needs of the entire community. As with all planning efforts climate adaptation benefits from analysis in order to assist in establishing priorities for initial efforts. An effort to structure a prioritization should not be seen as an attempt to discard the need to address climate impacts for any population within the Town - whether or not it is defined as one of the "vulnerable" populations. Prioritization, however, may be necessary to ensure the greatest impact and effectiveness of limited Town resources.

Based on the above review the Town's adaptive efforts may be most effective by prioritizing strategies which address the climate risks of Extreme Heat, Flooding, Air Quality, Power/Infrastructure Failure, Energy Costs, and Food Insecurity. Particular attention should be paid to strategies which are most effective for Seniors over 65, those in Economic Stress, individuals with disabilities, and workers employed in at-risk jobs.

Hartford Climate Risk Sensitivity Summary

Highest Sensitivity



Lowest Sensitivity

Hartford Climate Risk

The chart below reviews the expected climate impacts, likelihood of occurrence, impact level (Vulnerable Population Climate Impact Sensitivity), potential timeframe of impact, and resulting overall potential risk level for climate risks to the population. Each of these impacts are already experienced. The timeframes represent estimations of when the likelihood of occurrence and/or the overall level of impact may be significantly increased. The timeframes should be understood to be approximate and include “short-term” (current to 20 years), “medium-term” (mid-century) and “long-term” (late century).

Health Impacts	Expected Impact(s)	Likelihood of Occurrence	Impact Level (Population Vulnerability)	Timeframe	Risk (Likelihood x Impact)	Impact-related indicators
Extreme Heat	Increased demand for cooling; heat stress and emergency visits, heat related health	Likely	High	Medium-term	Moderate	Cooling Degree Days, days above 95
Flooding	damage to property; flood related health impacts; infrastructure impacts	Likely	High	Short-term	Very High	Flood events, flash flood occurrences, wettest 5-day periods, number of heavy rain events, disaster declarations, change in NOAA storm
Drought	Damage to crop/tree/ecosystem, reduced drinking water source, increased flash flood potential due to decreased soil permeability	Possible	Moderate	Medium-term	Moderate	Consecutive days without rain, aquifer level, surface water condition, river flow
Air Quality Impacts	Increased particulate matter, increased ozone impacts, increased instances of asthma	Likely	High	Long-term	Low	Air quality index
Vector-Borne Diseases	Increased instances of Lyme disease, encephalitis, heart worm, malaria, Zika virus.	Likely	Moderate	Medium-term	Moderate	Disease records
Nutrition Insecurity	Food price volatility/change, fluctuation in availability	Possible	High	Medium-term	High	Food price index, Foodshelf demand, % of school children qualifying for free and reduced lunch
Water Quantity/Quality Impacts	Water shortage, surface water quality impacts due to heat and stormwater runoff	Possible	Low	Long-term	Low	Aquifer health; Water quality test results
Water Borne Disease	Bacteria exposure at infected surface water locations, contamination of drinking water due to flood	Unlikely	Moderate	Medium-term	Low	flood events; algae blooms

Priority Climate Risks for Hartford

The priority climate risks to the population of Hartford include Flooding, Nutrition Security, Extreme Heat, and Vector Borne Disease Impacts while the priority climate risks to infrastructure/institutions include Land Use Planning, Buildings, Roads, Energy, and Agriculture and Forestry impacts.

Strategies Supporting Sector Goals

As indicated in the introduction, the Climate Action Plan is intended to be a 9 year plan to be updated at the completion of that time. Consequently, the goals and strategies outlined in this section are intended to be achieved by 2030 (or earlier) unless otherwise noted.

Implementation of actions are anticipated to be initiated over 3 phases: phase 1 within 1-2 years, phase 2 within 2-5 years, and phase 3 within 3-7 years of CAP approval.

- ① **Strategy HS 1:** Educate, engage, and empower the public on health and safety risks of climate change impacts.
- ② **Strategy HS 2:** Assist the Town’s vulnerable populations in preparing for and mitigating climate change impacts from extreme heat, flooding, storm, and vector borne disease.
- ③ **Strategy HS 3:** Maintain updated plans to address climate risks and impacts.
- ④ **Strategy HS 4:** Strengthen community response capacity and support networks.



1
Strategy HS 1:

Educate, engage, and empower the public on health and safety risks of climate change impacts.

Actions	Implementation Phase
HS 1-1 Review and effectively communicate emergency and evacuation plans and relevant content from the Hazard Mitigation Plan on a regular basis to update for climate change forecasted data, paying particular attention to flooding, extended heat waves and tornadoes	1
HS 1-2 Increase outreach to diverse populations about climate change and health, natural hazards, and emergency preparedness via broadcast, print, bus ads, social media, and other forms of communication in multiple languages and accessible to individuals with disabilities to ensure that emergency preparedness planning reaches all Town residents	1
HS 1-3 Expand languages to the local Emergency Alert System (EAS) capability by incorporating the Integrated Public Warning And Alert System (IPAWS). Platforms used should focus specifically on reaching the Town's top vulnerable populations and top non-English languages.	2
HS 1-4 Improve the resilience of emergency response and communications systems. The Town Manager's Office will work with the Health and Human Services Department (HHS) Emergency Response Coordinator (ERC) and the Town's Emergency Manager for employee and resident emergency communications. They will routinely test and utilize communications systems and build in notifications and alerts for extreme environmental situations	2

2
Strategy HS 2:

Assist the Town's vulnerable populations in preparing for and mitigating climate change impacts from extreme heat, flooding, storm, and vector borne disease.

Actions	Implementation Phase
HS 2-1 Conduct a needs assessment of accessible community centers for extreme weather or other emergency situations. Create a development improvement plan, if needed.	1
HS 2-2 Support town-wide program to support families who cannot afford to purchase supplies for household emergency preparedness kits to adequately prepare their homes (e.g. solicit emergency supply donations). Identify possible strategies for the structure of the program through a review of donation programs in other communities and engagement with community partners and businesses (involve COVER and UpperValley Strong)	1
HS 2-3 Collaborate with existing service organizations to identify and connect with low-income populations, communities of color, older adults and people with disabilities to services that help reduce safety, health and financial risks associated with climate change impacts	1
HS 2-4 Identify need for additional sustainable funding source (and assess current utilization / promote existing programs) for increased utility assistance for low-income residents, including support for energy efficiency projects, such as weatherization	2
HS 2-5 Promote equity in hazard mitigation, and emergency response and recovery activities, and consider populations most vulnerable to weather-related emergencies in all plans and exercises, including evacuation routes, transportation for vulnerable population groups, shelter in place locations, back-up power operations, extended access to fuel/power sources and drinking water, etc.	2
HS 2-6 Ensure that facilities that serve vulnerable populations are resilient to climate hazards. Develop model procedures for ensuring both Town and non-City facilities employ best practices in the event of an emergency such as flooding, power outages, extreme heat, etc	2
HS 2-7 Develop municipal anti-idling policy and ordinance for on-road vehicles as well as heavy equipment and construction vehicle to promote improved air quality. https://palebluedot.llc/hartford-cap-policy-examples	2
HS 2-8 Establish cooling centers and provide information to the community to ensure vulnerable residents are aware of these services, including direct messaging at community facilities and through health providers	3



3
Strategy HS 3:
Maintain updated plans to address climate risks and impacts.

Actions	Implementation Phase
HS 3-1 Continue liaison between HPD and local mental health agency to develop action plans to address climate-related mental health resilience at the individual, neighborhood and community level	1
HS 3-2 Explore and support surveillance efforts for the early detection of non-native vectors (e.g. ticks, mosquitoes, fleas) that may impact human or wildlife health.	1
HS 3-3 Include specific climate change-related emergency materials and risks in the next update to the Hazard Mitigation Plan and Town emergency plans. These could include press release templates, information on cooling/heating centers, specific plans for populations requiring mobility assistance, and steps to identify and help populations affected by extended power outages, flooding, etc	1
HS 3-4 During Town Plan Update process include the incorporation of climate adaptation strategies into planning process.	2
HS 3-5 Update or develop a community resilience plan to prioritize and prepare for responses in the event of a disaster and extreme weather events. Identify the location of critical facilities including hospitals, medical service providers, senior homes, child-care facilities, shelters, major and alternate transportation routes, public transit facilities and locations where hazardous chemicals are used or stored.	2
HS 3-6 Update the Town's emergency response plan and ensure that preparation and updates recognize and address likely climate change impacts.	2
HS 3-7 After weather-related emergency events, assess response to identify effectiveness, deficiencies and resources needed to build future resilience	2

4 **Strategy HS 4:**
Strengthen community response capacity and support networks.

Actions	Implementation Phase
HS 4-1 Assess community resources to address increases in violence and crime, particularly domestic violence, during periods of stress including emergencies and heat waves (utilize Covid experience)	1
HS 4-2 Support Resilient Hartford in the development of neighborhood resiliency groups.	1
HS 4-3 Set up call trees and block networks to check on neighbors during/after extreme weather events especially involving grid disruption.	1
HS 4-4 Enhance community networks and connections for those who require special attention, such as the elderly, homebound, disabled, isolated, or those likely to be in need of financial assistance during or after extreme weather events (heat, cold and heavy precipitation).	2
HS 4-5 Create a reverse 911 call system where public health officials call vulnerable individuals during extreme heat events.	2



What You Can Do

You can support the goals of the Health and Safety section of the Hartford Climate Action Plan as an individual, household, or a business. Here are just a few things you can do:

- Put together an emergency preparedness kit for your household by visiting <https://www.ready.gov/>
- Get involved with the Hartford Community Emergency Response Team (CERT). Join your neighbors and receive training to prepare for potential disasters.
- Prepare your home for the extremes. Understand the risk of extreme weather, extreme temperatures, flooding or wildfire to your home, and take action to safeguard your home.
- Keep yourself and your family current with physicals, vaccinations and prescribed medications and therapies.
- Plan and rehearse a fire evacuation plan with everyone who lives in your home or apartment.
- Have breathing-protection masks available for you and your family for when air quality alerts are declared.
- Take first-aid and CPR certification training.
- Notice a person who lives alone. Offer to check on them periodically, especially during extreme weather or a natural disaster.
- Notice a person who sometimes lacks transportation to their doctor, shopping or other services. Offer to drive them.
- Notice a person or family who lacks air conditioning in their home or apartment. Offer to have them visit or stay with you during extreme heat events.





Section 09 Climate Economy



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Why Climate Economy Is Important

Climate change and the economy are inexorably linked. Left unabated, the impacts of man-made climate change through the end of this century will cost the United States billions of dollars. According to a 2019 study by two EPA scientists, the difference in economic impact between the mid-range climate model and the high range climate model may account for as much as \$224 billion in economic impact annually by 2090. According to a 2019 World Bank report on trends in carbon pricing, a carbon price range of \$40-\$80 per ton is necessary by 2020 to reach the goals set by the 2015 Paris Agreement, while other studies have placed the full cost of carbon at \$200-\$400 per ton. Using the calculation outlined in Section 10 of the Hartford Climate Vulnerability Assessment (Projected localized annual economic impacts of climate change divided by annual community-wide GHG emissions), an estimate of localized cost for carbon is \$105 per metric ton.

The economy is also directly linked to climate action as well. One common reason given by those who wish not to see action taken on climate change is that the economy will be damaged. Setting aside the avoidance of the future costs should we not act to mitigate climate change, evidence is building a clear case that acting on climate change, and reducing fossil fuel emissions can be done without weakening the economy. Since 2013, Hartford has seen community-wide GHG emissions drop over 9.8% while during that same period the community's GDP has **increased** 15%.

Climate Action and Economic Development

Rather than weakening the economy, climate action can support economic development. Transitioning away from fossil fuel use, improvements to public transit systems, and growth of local food industries are all, in part, a transition to local energy and labor sources. These transitions represent opportunities for communities to reduce the community wealth that is being exported and increase the percentage of community wealth that remains in the community in the form of local jobs. Additionally, many of the jobs potentials in Climate Action redirect funds away from less labor intensive (but more material resource intensive) sectors of the economy to support greater overall employment combined with less resource utilization. In general, economic opportunities include:



Energy Efficiency
Jobs



Public Transit
Jobs



Renewable Energy
Jobs



Economic Savings

Climate Change Considerations



Climate Hazards

In many sectors, climate change will impact water and energy consumption and costs. Extreme weather and increasing variability in temperatures and precipitation may stress transportation systems and fleets. Increasing extreme weather hazards may threaten supply material and product supply chains.



Opportunities

Climate mitigation strategies like transformation of Hartford's energy system, improvements to the energy efficiency of the Town's building stock, enhancement of transportation alternatives, and the implementation of goals like tree canopy increases and reduction to impervious surfaces represent opportunities for the development of new businesses and job creation.



Equity Considerations

- Low income individuals in our communities are especially prone to the impacts of climate change and bear a greatly disproportionate share of the costs—including vulnerability to job instability that can be brought about by extreme weather events and other climate change impacts.
- Income inequality is rising in the US, with September 2019 levels being the highest in 50 years—and the impacts of the COVID-19 pandemic have only increased these inequities. High inequality leads to lower life spans, increased instances of mental health issues, and increased obesity rates among other social impacts. Because the impacts and the costs of climate change are disproportionately felt by vulnerable populations and low-income individuals, climate change impacts will exacerbate income inequality in our communities.

Strategies Supporting Sector Goals

As indicated in the introduction, the Climate Action Plan is intended to be a 9 year plan to be updated at the completion of that time. Consequently, the goals and strategies outlined in this section are intended to be achieved by 2030 (or earlier) unless otherwise noted.

Implementation of actions are anticipated to be initiated over 3 phases: phase 1 within 1-2 years, phase 2 within 2-5 years, and phase 3 within 3-7 years of CAP approval.

- ① **Strategy CE 1:** Capture local economic potential of climate action.
- ② **Strategy CE 2:** Increase workforce development and retention for the climate economy.
- ③ **Strategy CE 3:** Build marketplace climate resilience.
- ④ **Strategy CE 4:** Establish sustainable financing for the Town's climate action implementation.



Climate Economy

1

Strategy CE 1:

Capture local economic potential of climate action.

Actions		Implementation Phase
CE 1-1	Conduct a Climate Economy Economic Development Assessment to identify economic development potential of climate adaptation, climate mitigation, and energy action planning. Collaborate with partners such as TRORC, GMEDC, and Vital Communities	1
CE 1-2	Promote Hartford as a car-free destination through informational campaigns for visitors. Start with car-free access to downtown WRJ as a way to mitigate parking demand. Collaborate with private sector to alleviate parking demand spikes around events (Glory Days, Northern State Plays, etc). Build basic infrastructure to support car-free access and evolve from there.	2

2

Strategy CE 2:

Increase workforce development and retention for the climate economy.

Actions		Implementation Phase
CE 2-1	Develop job training programs focused on building resiliency- solar construction, weatherization, etc. HACTC program focus and apprentice programs. Pair with community retention efforts. Engage with local green jobs training providers to coordinate strategic planning and encourage programs to develop local workforce capacity and assess, train, and place local residents to perform energy retrofits, solar pv installations, and other green improvements.	1
CE 2-2	Create an Affordable Housing Master Plan to identify current and potential future need for affordable housing including scenarios anticipating climate immigration and migration potentials. Master plan should identify priority affordable housing locations which meet the Buildings and Energy, Transportation and Land Use, Climate Adaptation, Health and Safety, and other goals of this CAP plan. Direct/assist the planning commission to re-write the housing chapter to respond to these issues (climate migration and migration potentials)	2





3

Strategy CE 3:

Build marketplace climate resilience.

Actions		Implementation Phase
CE 3-1	Execute a Circular and Climate Economy Market Feasibility Assessment to explore potential technologies and businesses which may be highly suited for success in Hartford and identify next step strategies for creation of new businesses or attraction of existing businesses to Hartford. Assessment to identify opportunities and pathways for increase in equity.	1
CE 3-2	Foster small business and green business development, particularly those which increase renewable energy, climate mitigation and adaptation resources within the community. Explore expanding the Revolving Loan fund to prioritize businesses of these types. Collaborate with the private sector to offer effective incentives for the growth of local green businesses which can support the goals of this CAP.	2

4

Strategy CE 4:

Establish sustainable financing for the Town's climate action implementation.

Actions		Implementation Phase
CE 4-1	Capturing savings from Town facility energy efficiency, renewable energy projects, and fleet energy efficiency from all Town departments. Operational savings are to be directed to the Climate Action Reserve Fund, with the funds being used to implement carbon-reducing projects that align with the Climate Action Plan.	1
CE 4-2	Explore creation of a Hartford Carbon Fund carbon offset program which enables investing in local or regional project carbon offsets. https://sfenvironment.org/carbon-fund	2
CE 4-3	Explore creation of a Hartford Forest Credit program to fund local tree canopy increases, urban and rural tree maintenance, and provide carbon offset credits. https://www.cityforestcredits.org/	2

Section 10 Hartford Municipal Operations



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GHG Emissions

generated by Hartford
municipal operations



548

Metric tons CO₂e in 2019
from municipal fleet use.



686

Metric tons CO₂e in 2019
from municipal building energy.



10

Metric tons CO₂e in 2019
from municipal operations
solid waste,



446

Metric tons CO₂e in 2019
from municipal water and
wastewater operations,

Hartford Municipal Operations

Municipal operations refer to the services provided to the businesses and residents of the Town of Hartford by the Town of Hartford government. These services include public safety, water, streets and many other direct and indirect supportive services. Town of Hartford municipal operations are provided through 11 departments.

As with the activities of residents and businesses town-wide, municipal operations produce greenhouse gas emissions. Heating and cooling municipal buildings, operating municipal vehicles and equipment, and waste generation among other aspects of operating a complex agency all produce emissions.

Municipal Operations Emissions Reduction Goal

In 2020, a ballot resolution, “Article 25”, passed with 65% of the vote, requiring the Town to lead by example and that:

The operation and maintenance of the Town of Hartford’s municipal infrastructure and equipment shall achieve carbon neutrality by 2027.

What does carbon neutrality mean?

“Carbon neutrality” means annual zero net anthropogenic (human caused or influenced) CO₂ emissions by a certain date. By definition, carbon neutrality means every ton of anthropogenic CO₂ emitted is compensated with an equivalent amount of CO₂ removed (e.g. via carbon sequestration). Here “carbon” refers to greenhouse gases (GHG) including carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O) released by the combustion of fossil fuels, land use change, and other human activity.

From a human caused GHG accounting perspective, Carbon Neutral looks like this:

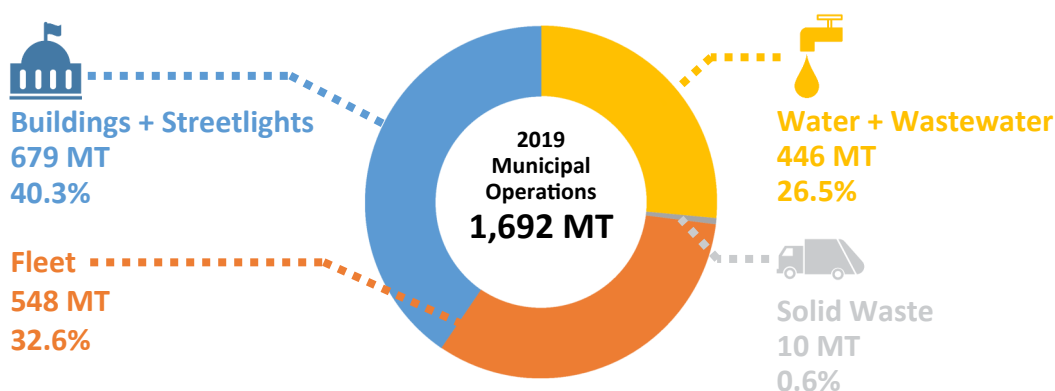
GHG emissions

$$\begin{array}{l} - \text{Increased uptake of CO}_2 \text{ (carbon sequestration)} \\ + \text{Increased release of CO}_2 \text{ (wastewater treatment, etc)} \\ \hline = 0 \end{array}$$

Carbon Neutrality can be achieved in several ways or a combination of them, including:

- Reducing emissions originating from fossil fuel combustion due to activities within the community.
- Generating excess renewable energy and providing it to consumers outside of the city.
- Purchasing carbon offsets, which are tradable units that represent abatement of greenhouse gas emissions.

2019 Municipal Operations GHG Emissions by Sector



Note: Municipal Operations GHG Emissions shown above are for Scope 1 and Scope 2 emissions and do not include Scope 3 emissions associated with purchased goods and services.



Hartford Municipal Operations

Mode Shift Targets Supporting Sector Goals

Sector goals are established to both support the Town's Climate Action Plan in creating a climate resilient community and to reduce Town Municipal Operation GHG emissions to achieve Carbon Neutrality by 2027:

	Building Energy Consumption	Facility Electrification	Electric Vehicles	Biodiesel Use
				
Today	137,432 MMBTU	0%	1.4%	0%
2027 Targets	116,817	100%	100%	100%

Strategies Supporting Sector Goals

-  **Strategy MO 1:** Improve total Municipal building energy efficiency by 15% Electricity and 15% Thermal Fuel by 2030.
-  **Strategy MO 2:** Achieve 100% Municipal building thermal "fuel switching" to reduce on-site fossil fuel use by 2027.
-  **Strategy MO 3:** Achieve 100% conversion of municipal operations gasoline and e10 gasoline fleet vehicles and equipment within municipal fleet to EV's by 2027. Achieve 100% conversion of all municipal fleet vehicles and equipment to EV's by 2040.
-  **Strategy MO 4:** Convert all remaining municipal operations diesel fuel utilization to biodiesel fuel by 2027.
-  **Strategy MO 5:** Achieve 100% organics landfill waste diversion, 10% increased recycling diversion, and 5% overall waste reduction for municipal operations by 2027.
-  **Strategy MO 6:** Purchase Carbon offsets for all remaining municipal operations emissions by 2027 (estimated at 240 Metric Tons annually).

1  Strategy MO 1: Improve total Municipal building energy efficiency by 15% Electricity and 15% Thermal Fuel by 2030.	
Actions	Implementation Phase
MO 1-1 Introduce a policy that requires all new and existing municipal buildings to meet and maintain specific energy and resource efficiency standards (ENERGY STAR, LEED, Home Energy Score or other). Policy should include a prohibition of purchase of fossil fuel burning equipment including water and space heating. https://palebluedot.llc/hartford-cap-policy-examples	1
MO 1-2 Conduct an energy audit for all municipal facilities. Establish an Energy Efficiency Plan to outline strategies to achieve energy efficiency targets for all municipal buildings by 2027. Integrate the implementation of this plan with the Net Zero Capital Improvement Plan.	1
MO 1-3 Have Energy Coordinator work with the Dept. of Public Works to develop energy management plans for water supply and wastewater treatment facilities and infrastructure.	1
MO 1-4 Introduce a policy that requires all municipal buildings to be benchmarked with the current Energy Score rating, the energy use intensity (kBtu/sqft) and the energy reduction goal. These benchmarks and goals shall also be posted on the Town's website. https://palebluedot.llc/hartford-cap-policy-examples	1
2  Strategy MO 2: Achieve 100% Municipal building thermal "fuel switching" to reduce on-site fossil fuel use by 2027.	
Actions	Implementation Phase
MO 2-1 Establish a policy requiring all municipally owned buildings to be 100% electric (or zero on-site fossil fuel combustion) by 2027. https://palebluedot.llc/hartford-cap-policy-examples	1
MO 2-2 Work with regional energy partnerships to develop and implement an Electrification Action Plan for all Town facilities. Include new and existing buildings, incorporate strategies to address electricity storage, and focus on highlighting any hurdles or solutions that would be applicable to the broader community.	1
MO 2-3 Establish a municipal facility Net Zero Capital Improvement Plan to outline fuel switching, and renewable energy strategies to achieve 100% fuel switching by all municipal buildings by 2027. Integrate the Energy Efficiency Plan findings with this plan to achieve net zero for all municipal buildings by 2027.	1



3 	Strategy MO 3: Achieve 100% conversion of municipal operations gasoline and e10 gasoline fleet vehicles and equipment within municipal fleet to EV's by 2027. Achieve 100% conversion of all municipal fleet vehicles and equipment to EV's by 2040.	
Actions		Implementation Phase
MO 3- 1	Conduct a municipal fleet Electric Vehicle Transition Plan (EVTP). Effort to identify opportunities for electrifying, right-sizing, and improving overall efficiency of vehicles to meet CAP Goals. Include implementation recommendations to incorporate EV's through right-timing purchases with a planned vehicle-replacement schedule.	1
MO 3- 2	Strategically increase Electric Vehicles within the Town's fleet based on EVTP. Update Town vehicle purchasing policy/budget process to default to electric vehicle or zero/low emission vehicle with traditional internal combustion engine (ICE) as option requiring proof of need with no viable zero/low emission alternative. Policy to require taking emissions/fuel reductions into account when purchasing vehicles/equipment. Focus on small vehicles as well as large vehicles for alternative fuels. EV replacement to be prioritized for high mileage vehicles. Action to be coordinated with the EVTP https://palebluedot.llc/hartford-cap-policy-examples	1
4 	Strategy MO 4: Convert all remaining municipal operations diesel fuel utilization to biodiesel fuel by 2027.	
Actions		Implementation Phase
MO 4- 1	Based on the findings of the Biodiesel Source Feasibility Study (Action TL4-1), collaborate with existing fuel retailers to establish required supply chain to serve municipal operation diesel requirements for equipment and vehicles unable to be replaced with electric or zero/low emission alternatives.	1

	Strategy MO 5: Achieve 100% organics landfill waste diversion, 10% increased recycling diversion, and 5% overall waste reduction for municipal operations by 2027.	
	Actions	Implementation Phase
MO 5- 1	Town departments and public agencies, especially Public Schools, should lead by example and pilot organics diversion composting programs. Achieve 100% organics diversion by 2023.	1
MO 5- 2	Establish a municipal operations zero waste plan to identify strategies to move the municipal operations toward zero-waste. Achieve an increase in recycling of 10% and a decrease of 5% in overall solid waste generated by 2027.	1
	Strategy MO 6: Achieve Carbon Neutral Municipal Operations by 2027.	
	Actions	Implementation Phase
MO 6- 1	Develop a Municipal Operations Carbon Neutral Roadmap with a clear definition of Carbon Neutrality and establish boundaries, define measurements and metrics, establish tracking procedures and methodologies, identify implementation responsibilities, develop an annual tracking and reporting template	1
MO 6- 2	Conduct a review of carbon offset procurement options and identify the most advantageous options for the Town of Hartford.	1
MO 6- 3	Maintain annual or bi-annual Municipal Operations GHG Inventories to ensure tracking of progress towards Municipal Operations Carbon Neutral goal (including municipal vehicle fleet and all other municipal operations sectors). Beginning in 2025 use GHG inventory to determine required carbon offset level, if any, and procure offsets to ensure carbon neutrality.	2

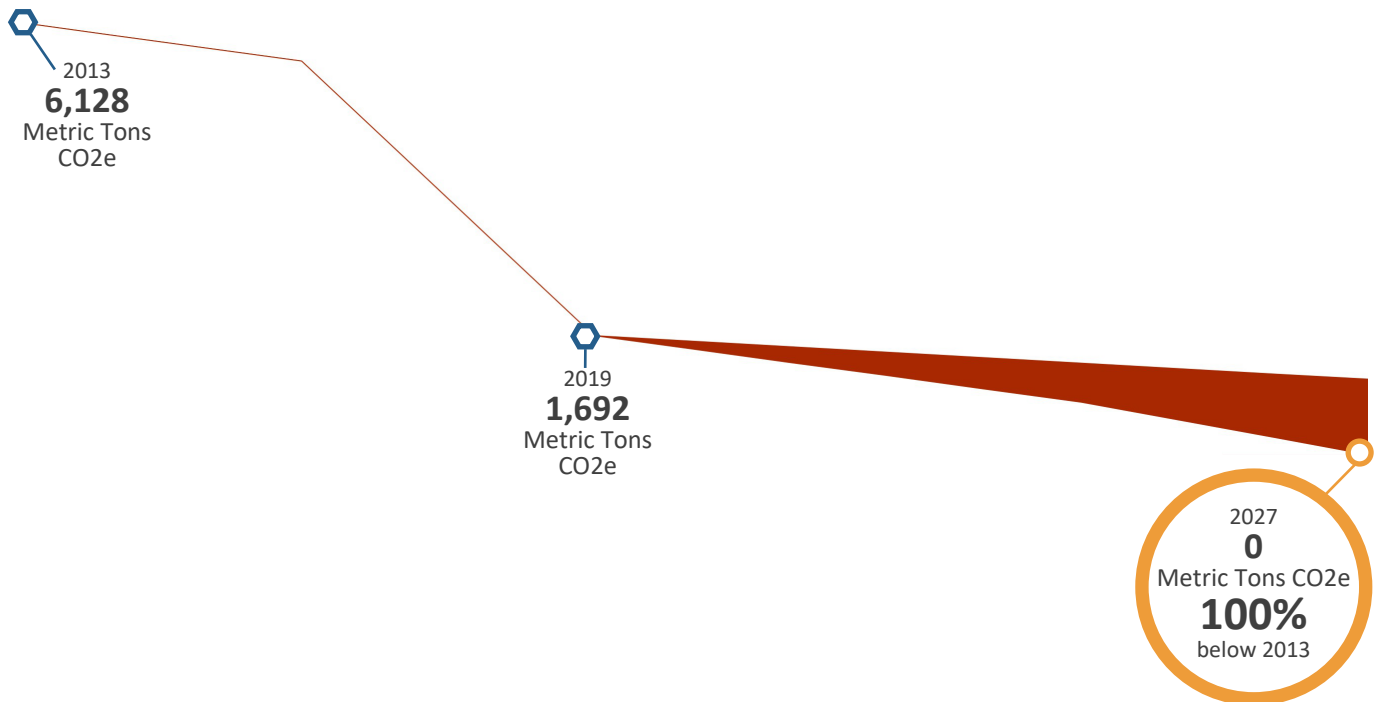


Hartford Municipal Operations

Estimated Town Operations GHG Reductions Included in This Plan

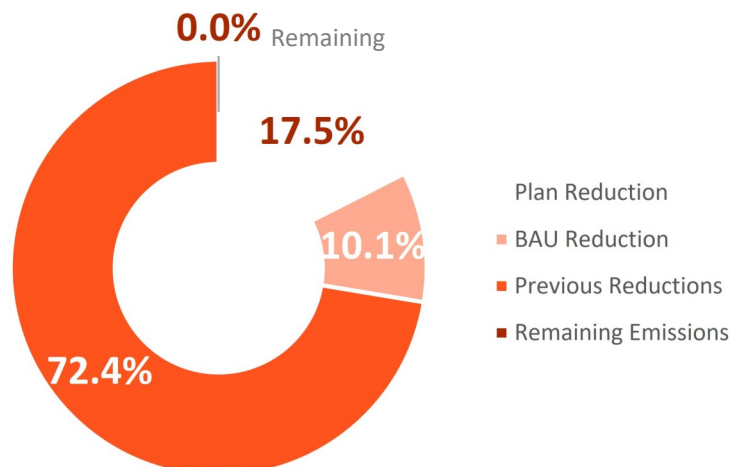
By 2027, the modeled emissions reductions associated with Town Operations reductions strategies and actions are projected to be 5,935 metric tons below 2013 levels and 1,499 metric tons below 2019 levels prior to purchase of carbon offsets (Strategy MO 6). It is projected that potentially 3.2% of Town Operations emissions may remain by 2027. These potentially remaining emissions include an estimated 191 metric tons of biogenic emission from municipal wastewater treatment and 2 metric tons from solid waste.

Hartford's Buildings and Energy Carbon Reduction Pathway



Breakdown of Town Municipal Operations GHG Emissions Reductions From 2013 to 2030

Total anticipated GHG emissions reductions by 2030 include emissions reductions which have already occurred since 2013, reductions which are anticipated within the Business-as-Usual forecast, and the reductions resulting from the strategies and actions included in this plan.



Section 11

Climate Action Implementation



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Climate Action Implementation

The first few years after plan adoption are critical to its success. Establishing roles, both internal and external, and identifying funding will help establish the implementation phase of the plan and ensure the community is on track to achieve its goals. This plan includes robust goals for significant GHG emission reductions and addressing climate resilience. This vision requires commitment and integration of the CAP into Town operations, functions, and services.

Implementation is For Everyone

Implementation actions are detailed items that should be completed in order to carry out the vision and strategies identified in the plan. Some actions will need to be led by Town Selectboard, Town departments, and/or the business community; and there are some things that households and individuals can do to make an impact. While many actions will require Town Selectboard to amend a policy there will be opportunities for businesses, organizations, households, and individuals to support the Town Selectboard policy changes and provide input on and feedback on those policies. Ultimately, achieving the visionary energy efficiency, renewable energy, alternative transportation, and climate resilience goals outlined in this plan will require engagement and a sense of responsibility not only by the Town of Hartford leadership and government, but by the community itself as well. It is critical for all to remain engaged and active, advancing and advocating for actions you feel are important.

General Implementation Recommendations

Foundational recommendations to support the long-range implementation of the CAP include Building Internal Capacity, External Support, and Funding:

Building Internal Capacity

Continuing to build internal capacity will be important to help establish the CAP as a priority integral to internal operations as well as fostering connections to community partners, businesses, and individuals through outreach, education, special projects, and service delivery.

1. Establish clear guidance and direction for the participation in and support of the CAP implementation actions by all Town of Hartford departments.
2. Fund and support Climate Action / Energy staffing required to:
 - Facilitate discussion among large users to reduce emissions through business and industrial strategies.
 - Participate in technical resource programs as they are available through County, Regional, State, Federal, and non-profit provider partners.
 - Support Town of Hartford department managers and staff as they implement CAP actions within their service area or area of expertise.
 - Convene an internal Town of Hartford Climate Working Group that meets regularly and provides updates on progress and success, identifies additional support or resources needed to advance actions of the CAP, and collaboratively discusses strategies for more complex challenges.
 - Ensure the establishment and maintenance of a Town of Hartford Climate Action webpage supporting CAP resources for the community.
 - Coordinate and organize volunteer groups and events.
 - Engage Town boards and commissions (e.g., Climate Advisory Committee, Community Resilience Organization, Conservation Commission, Energy Commission, Parks and Recreation Commission, Planning Commission, Tree Board, Municipal Building Advisory Committee, etc.) to ensure the CAP is integrated into their work plans.
3. Review Climate Action Plan implementation progress and impacts on a regular basis (1-2 year cycle). Review should include development of an updated community wide and municipal operations GHG inventory. Strategies and actions should be reviewed for implementation progress and for continued appropriateness. Based on the review, adjust, add, and remove detailed CAP actions as appropriate.



Climate Action Implementation

External Support

Town staff and elected officials will not be able to implement this plan without robust support from community members and coordination with jurisdictional, institutional, and organizational partners.

1. Establish the Climate Advisory Committee (CAC) as the main citizen-body to support the implementation of the CAP. Committee's mission and scope of work should include support of the implementation of the Climate Action Plan, coordination with Town staff in all relevant departments, receiving updates on Town CAP projects and progress, and providing input on plan adjustments as needed.
2. Establish a designated Town Selectboard representative and CAC representative participant in the Town's internal Climate Working Group in support of CAP implementation.
3. Establish a coordinated communication and education campaign supporting the educational and informational actions included in each of the CAP sections. The campaign should also look to help community members:
 - Understand why change at the individual, community, Town, and business level needs to occur,
 - How to make those changes correctly, and
 - What the benefit/incentive to them might be, for example, articulating that switching to solar energy and or an electric bus fleet might help reduce bills
4. Establish jurisdictional partnerships that advance CAP strategies to advance and accelerate action. This can include government entities like Windsor County, Two Rivers—Ottawaquechee Regional Commission, the State of Vermont, conservation districts, utilities like Green Mountain Power; institutions like Hartford School District and CCV Upper Valley; Hartford businesses, and community groups.

Funding

Funding the implementation of the CAP will require reallocation/reconsideration of existing Town funds, raising new Town funds, and identifying outside resources and funding opportunities. Some funds will need to be dedicated toward long-term support like staffing, while other funding will be on a project-by-project basis.

1. Establish and maintain funding for staff dedicated to the implementation of the CAP.
2. Establish and maintain a Climate Action Reserve Fund to support projects on an annual basis
3. Explore additional sustainable funding sources as per the detailed actions outlined in the Climate Economy section of the plan.
3. Utilize no-cost technical assistance offerings as available.

Climate Action Implementation

First Year Project Implementation

The establishment of the Town of Hartford Climate Action Reserve Fund and the initial FY22 funding allows the Town to make an immediate transition to detailed planning and implementation work following adoption of the CAP. The following are the recommended projects for immediate implementation and use of the FY22 Climate Action Reserve Funding*:

Climate Action Reserve Fund Projects FY22			
CAP Action	Project	Preliminary Budget	Scope
MO 3-1	Municipal Fleet Electric Vehicle Transition Plan (EVTP) Conduct a municipal fleet Electric Vehicle Transition Plan (EVTP). Effort to identify opportunities for electrifying, right-sizing, and improving overall efficiency of vehicles to meet CAP Goals. Include implementation recommendations to incorporate EV's through right-timing purchases with a planned vehicle-replacement schedule.	\$16,000	Municipal Operations 
MO 6-1	Municipal Operations Carbon Neutral Roadmap Develop a Municipal Operations Carbon Neutral Roadmap with a clear definition of Carbon Neutrality and establish boundaries, define measurements and metrics, establish tracking procedures and methodologies, identify implementation responsibilities, develop an annual tracking and reporting template.	\$7,500	Municipal Operations 
MO 2-2	Municipal Facility Net Zero Capital Improvement Plan Establish a municipal facility Net Zero Capital Improvement Plan to outline fuel switching, and renewable energy strategies to achieve 100% fuel switching by all municipal buildings by 2027. Integrate the Energy Efficiency Plan findings with this plan to achieve net zero for all municipal buildings by 2027.	\$25,000	Municipal Operations 
MO 1-2	Conduct an energy audit for all municipal facilities. Establish an Energy Efficiency Plan to outline strategies to achieve energy efficiency targets for all municipal buildings by 2027. Integrate the implementation of this plan with the Net Zero Capital	(included with MO 2-2 above)	
BE 3-1	Electrification and Energy Efficiency / Weatherization Group Purchase Coordinate and promote a residential and small business "Electrification and Energy Efficiency/Weatherization" group purchase campaign annually (FY22 only included in funding) to help reduce the costs of energy efficient heating systems such as air source heat pumps and ground source heat pumps through volume purchasing power (goal, 150 households and 20 businesses annually). Program design to explore strategies to support local small business contractors such as being set up to enable small contractors to collaborate or having a competitive "marketplace" approach with more than one contractor to choose from. NOTE: Action may be implemented in combination with the renewable energy group purchase program action.	\$6,000	Community-wide 
BE 4-1	Residential Solar Group Purchase Coordinate and promote a residential Solar Group Purchase Campaign annually (FY22 only included in funding) to help reduce the costs of solar installation through volume purchasing power (goal, 80 households annually). Program design to explore strategies to support local small business solar installers such as being set up to enable small installers to collaborate or having a competitive "marketplace" approach with more than one installer to choose from. NOTE: Action may be implemented in combination with the electrification and energy efficiency group purchase program action.	\$6,000	Community-wide 

* Note: it is anticipated that the Town will begin implementation of other priority 1 actions as outlined in the Climate Action Plan sectors in addition to these first year projects receiving Climate Action Reserve Funding.



Climate Action Implementation

Climate Action Implementation Support Tools

To support the Town in its initial implementation phase, the paleBLUEdot team has created a number of tools including:

- Implementation and Monitoring Matrix
 - Example Climate Action Policies and Ordinances
- The paleBLUEdot team has assembled example policies and ordinances supporting some of the strategies and actions included in the Hartford Climate Action Plan. The examples can be found on the following webpage:
<https://palebluedot.llc/Hartford-cap-policy-examples>



Section A1

GHG Forecast Assumptions



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Town of Hartford

GHG Forecast Assumptions:

Demographics:

- **Population:** Total Population projections through 2030 are projected based on State of Vermont Agency of Commerce and Community Development projections for Hartford and Windsor County. Projections for 2040 and 2050 are reduced to 50% of the growth rate through 2030.
- **Households:** Total household counts through 2050 are projected based on population projections above, maintaining ratio of households to population.
- **Jobs:** Total commercial jobs through 2050 are projected based on Town's commercial job growth over last decade. Industrial jobs are projected using ½ of the commercial job growth rate.

Climate Data

- **Cooling Degree Days (CDD):** Projected climate changes for the region will include increased summer temperatures. The increase in temperatures will result in an increase, or variability, in air conditioning demand. The forecast calculates annual changes in air conditioning demand based on projections provided by the "Climate Explorer" tool developed by US NOAA in support of the National Climate Assessment work. <https://crt-climate-explorer.nemac.org/>
- **Heating Degree Days (HDD):** Projected climate changes for the region will include increased winter temperatures. The increase in temperatures will result in a decrease, or variability, in building heating demand. The forecast calculates annual changes in heating demand based on projections provided by the "Climate Explorer" tool developed by US NOAA in support of the National Climate Assessment work. <https://crt-climate-explorer.nemac.org/>

Electricity:

- **Residential:** Demand is based on a per household basis and modified based on the projected Cooling Degree Days for each year, assuming 15% of electricity is used for cooling (RCP 8.5 model). 50% of projected increased electrical vehicle usage is attributed to residential EV charging.
- **Commercial and Industrial:** Demand is based on a per job basis and modified based on projected cooling degree days for each year, assuming that 15% of commercial and 7.5% of industrial electricity is used for cooling. (RCP 8.5 model). 50% of projected increased electrical vehicle usage is attributed to commercial EV charging
- **All electricity emission factors** are calculated using estimated emissions factors for 2030, 2040, and 2050 based on current, known, supplier commitments. For electrical suppliers with unknown or unestablished emission commitments, and for electricity purchased from the SERC grid, electricity emission factors are calculated based on EPA forecasts (<https://fas.org/sgp/crs/misc/R45453.pdf>). Estimated emissions factors are reduced 5% by 2030, 10% by 2040, and 15% by 2050.

Heating Fuel:

- **Residential:** Demand is based on a per household basis and modified based on the projected Heating Degree Days for each year, assuming 75% of fuel is used for heating (RCP 8.5 model).
- **Commercial and Industrial:** Demand is based on a per job basis and modified based on projected heating degree days for each year, assuming that 40% of commercial and 20% of industrial fuel is used for heating (RCP 8.5 model).
- Heating fuel emissions factors are projected to be unchanged.

Transportation:

- Vehicle Miles Traveled is based maintaining existing VMT per household ratios with total number of households projected as outlined above.
- Vehicle fuel use is calculated based on US Energy Information Agency projected rolling stock average fuel efficiency projections, modified to 75% projected MPG to account for heavy duty vehicle MPG share (based on US Department of Transportation data on current light duty to average all vehicle MPG ratios)
<https://www.eia.gov/todayinenergy/detail.php?id=31332>
- Total vehicle stock is based on per household projections maintaining existing average number of vehicles per household through 2030 (2.556) and then reducing the average vehicle per household 10% through 2050 (2.3).
- Electric Vehicle Adoption: Transportation emissions assume a reduction in fossil fuel based VMT emissions based on estimated adoption rates. 2020 EV rolling stock in Hartford is calculated based on pro rata share of State of Vermont EV data for Windsor County. Adoption rates for 2030 are based on Edison Institute's forecasts in "Electric Vehicle Sales Forecast and the Charging Infrastructure Required Through 2030". Adoption rates for 2040 and 2050 are based on a 0.5% and 1% annual increase in purchase rates from 2030 projections respectively. Existing vehicle stock is assumed to be replaced based on an average replacement lifespan of 12 years.
(https://www.edisonfoundation.net/iei/publications/Documents/IEI_EEI%20EV%20Forecast%20Report_Nov2018.pdf
<https://berla.co/average-us-vehicle-lifespan/>).

Solid Waste:

- Total Solid Waste handled is based on total number of households and maintaining existing volume per household and emissions factors per ton handled.

Wastewater:

- Total Wastewater handled is based on total number of households and maintaining existing volume per household and emissions factors per household.

Note:

GHG emissions forecasts are not predictions of what will happen, but rather modeled projections of what may happen given certain assumptions and methodologies. GHG forecasts in this report should be interpreted with a clear understanding of the assumptions that inform them and the limitations inherent in any modeling effort.

Section A2

Glossary of Terms



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A

Activity Data

Data on the magnitude of a human activity resulting in emissions or removals taking place during a given period of time. Data on energy use, metal production, land areas, management systems, lime and fertilizer use and waste arisings are examples of activity data. ([IPCC](#))

Adaptive Capacity

The social, technical skills, and financial capacities of individuals and groups to implement and maintain climate actions.

Aerosols

A collection of airborne solid or liquid particles, with a typical size between 0.01 and 10 micrometer that reside in the atmosphere for at least several hours. Aerosols may be of either natural or anthropogenic origin. Aerosols may influence climate in several ways: directly through scattering and absorbing radiation, and indirectly by acting as cloud condensation nuclei or modifying the optical properties and lifetime of clouds. ([IPCC2](#))

Afforestation

Planting of new forests on lands that historically have not contained forests. ([IPCC2](#))

Air Pollutant

Any man-made and/or natural substance occurring in the atmosphere that may result in adverse effects to humans, animals, vegetation, and/or materials. ([CARB](#))

Anthropogenic

The term "anthropogenic", in the context of greenhouse gas inventories, refers to greenhouse gas emissions and removals that are a direct result of human activities or are the result of natural processes that have been affected by human activities. ([USEPA2](#))

Atmosphere

The gaseous envelope surrounding the Earth. The dry atmosphere consists almost entirely of nitrogen (78.1% volume mixing ratio) and oxygen (20.9% volume mixing ratio), together with a number of trace gases, such as argon (0.93% volume mixing ratio), helium and radiatively active greenhouse gases such as carbon dioxide (0.035% volume mixing ratio) and ozone. In addition, the atmosphere contains the greenhouse gas water vapor, whose amounts are highly variable but typically around 1% volume mixing ratio. The atmosphere also contains clouds and aerosols. ([IPCC2](#))

B

Baseline Emissions

A baseline is a measurement, calculation, or time used as a basis for comparison. Baseline emissions are the level of emissions that would occur without policy intervention or without implementation of a project. Baseline estimates are needed to determine the effectiveness of emission reduction programs (also called mitigation strategies).

Base Year

The starting year for the inventory. Targets for reducing GHG emissions are often defined in relation to the base year.

Biogenic

Produced by the biological processes of living organisms. Note that we use the term "biogenic" to refer only to recently produced (that is non-fossil) material of biological origin. IPCC guidelines recommend that peat be treated as a fossil carbon because it takes a long time to replace harvested peat.



Biogeochemical Cycle

Movements through the Earth system of key chemical constituents essential to life, such as carbon, nitrogen, oxygen, and phosphorus. ([NASA](#))

Biomass

Either (1) the total mass of living organisms in a given area or of a given species usually expressed as dry weight; or (2) Organic matter consisting of or recently derived from living organisms (especially regarded as fuel) excluding peat. Includes products, by-products and waste derived from such material. (IPCC1)

Biomass Waste

Organic non-fossil material of biological origin that is a byproduct or a discarded product. "Biomass waste" includes municipal solid waste from biogenic sources, landfill gas, sludge waste, agricultural crop byproducts, straw, and other biomass solids, liquids, and gases; but excludes wood and wood-derived fuels (including black liquor), biofuels feedstock, biodiesel, and fuel ethanol. Note: EIA "biomass waste" data also include energy crops grown specifically for energy production, which would not normally constitute waste. ([EIA](#))

Black Carbon

Operationally defined aerosol species based on measurement of light absorption and chemical reactivity and/or thermal stability; consists of soot, charcoal and/or possible light absorbing refractory organic matter (Charlson and Heintzenberg, 1995, p. 401). ([IPCC2](#))

C

Carbon Cycle

All parts (reservoirs) and fluxes of carbon. The cycle is usually thought of as four main reservoirs of carbon interconnected by pathways of exchange. The reservoirs are the atmosphere, terrestrial biosphere (usually includes freshwater systems), oceans, and sediments (includes fossil fuels). The annual movements of carbon, the carbon exchanges between reservoirs, occur because of various chemical, physical, geological, and biological processes. The ocean contains the largest pool of carbon near the surface of the Earth, but most of that pool is not involved with rapid exchange with the atmosphere. ([NASA](#))

Carbon Dioxide (CO₂)

A naturally occurring gas, and also a by-product of burning fossil fuels and biomass, as well as land-use changes and other industrial processes. It is the principal anthropogenic greenhouse gas that affects the Earth's radiative balance. It is the reference gas against which other greenhouse gases are measured and therefore has a Global Warming Potential of 1. ([IPCC2](#))

Carbon Dioxide Equivalent (CO₂e)

A metric used to compare emissions of various greenhouse gases. It is the mass of carbon dioxide that would produce the same estimated radiative forcing as a given mass of another greenhouse gas. Carbon dioxide equivalents are computed by multiplying the mass of the gas emitted by its global warming potential.

Carbon Disclosure Project (CDP)

An international organization that administers a platform for organizations and cities to publicly disclose their environmental impacts, such as climate risk. CDP is one of the approved disclosure platforms utilized by GCoM.

Carbon Emissions

The release of carbon dioxide into the atmosphere. Primary human sources of the release of carbon dioxide occur from burning oil, coal, and gas for energy use.

Carbon Equivalent (CE)

A metric measure used to compare the emissions of the different greenhouse gases based upon their global warming potential. Carbon equivalents can be calculated from to carbon dioxide equivalents by multiplying the carbon dioxide equivalents by 12/44 (the ratio of the molecular weight of carbon to that of carbon dioxide). The use of carbon equivalent is declining in GHG inventories.

Carbon Intensity

The amount of carbon by weight emitted per unit of energy consumed. A common measure of carbon intensity is weight of carbon per British thermal unit (Btu) of energy. When there is only one fossil fuel under consideration, the carbon intensity and the emissions coefficient are identical. When there are several fuels, carbon intensity is based on their combined emissions coefficients weighted by their energy consumption levels. ([EIA](#))

Carbon Neutrality

“Carbon neutrality” means annual zero net anthropogenic (human caused or influenced) CO₂ emissions by a certain date. By definition, carbon neutrality means every ton of anthropogenic CO₂ emitted is compensated with an equivalent amount of CO₂ removed (e.g. via carbon sequestration).

Carbon Sinks

A forest, ocean, or other natural environment viewed in terms of its ability to absorb carbon dioxide from the atmosphere.

Carbon Sequestration

This refers to the capture of CO₂ from the atmosphere and its long term storage in oceans (oceanic carbon sequestration), in biomass and soils (terrestrial carbon sequestration) or in underground reservoirs (geologic carbon sequestration).

Chlorofluorocarbons (CFCs)

Greenhouse gases covered under the 1987 Montreal Protocol and used for refrigeration, air conditioning, packaging, insulation, solvents, or aerosol propellants. Because they are not destroyed in the lower atmosphere, CFCs drift into the upper atmosphere where, given suitable conditions, they break down ozone. These gases are being replaced by other compounds, including hydrochlorofluorocarbons and hydrofluorocarbons, which are greenhouse gases covered under the Kyoto Protocol. ([IPCC3](#))

Circular Economy

An alternative to a traditional linear economy (make, use, dispose) in which an economy is a regenerative system where resource input and waste are minimized. This is achieved through long-lasting product design, repair, reuse, remanufacturing, and recycling. Circular economy strategies are often cited as systems level approaches to reducing waste generation through product and system design.

Climate

Climate in a narrow sense is usually defined as the "average weather" or more rigorously as the statistical description in terms of the mean and variability of relevant quantities over a period of time ranging from months to thousands or millions of years. The classical period is 30 years, as defined by the World Meteorological Organization (WMO). These relevant quantities are most often surface variables such as temperature, precipitation, and wind. Climate in a wider sense is the state, including a statistical description, of the climate system. ([IPCC2](#))

Climate Adaptation or Resilience

The capacity of a natural environment to prevent, withstand, respond to, and recover from a disruption. The process of adjusting to new climate conditions in order to reduce risks to valued assets.



Climate Change

Climate change refers to a statistically significant variation in either the mean state of the climate or in its variability, persisting for an extended period (typically decades or longer). Climate change may be due to natural internal processes or external forcings, or to persistent anthropogenic changes in the composition of the atmosphere or in land use. ([IPCC2](#))

Climate Hazard

An extreme climate event or condition that can harm human health, livelihoods, or natural resources. It can include abrupt changes to the climate system such as extreme precipitation, storms, droughts, and heat waves.

Climate Risk

The potential for consequences where something of value is at stake and where the outcome is uncertain, recognizing the diversity of values. Risk is often represented as probability of occurrence of hazardous events or trends multiplied by the impacts if these events or trends occur. Risk results from the interaction of vulnerability and hazard. (IPCC):

Climate Vulnerability

Is the degree to which a system is susceptible to, and unable to cope with, adverse effects of climate change, including climate variability and extremes. Vulnerability is a function of the character, magnitude and rate of climate change and variation to which a system is exposed, its sensitivity, and its capacity to adapt.

Vulnerability = potential impact (sensitivity x exposure) – adaptive capacity (IPCC):

Climate Vulnerability Assessment

A report used to identify and define the risks posed by climate change and inform adaptation measures needed to combat climate change. Reports can be about a wide range of fields including food security, poverty analysis, and extreme weather events.

Cogeneration

Cogeneration is an industrial structure, installation, plant, building, or self-generating facility that has sequential or simultaneous generation of multiple forms of useful energy (usually mechanical and thermal) in a single, integrated system. ([CARB](#))

Combined Heat and Power (CHP)

Combined heat and power is the simultaneous production of both electricity and useful heat for application by the producer or to be sold to other users with the aim of better utilisation of the energy used. Public utilities may utilise part of the heat produced in power plants and sell it for public heating purposes. Industries as auto-producers may sell part of the excess electricity produced to other industries or to electric utilities. ([IPCC](#))

Community Solar

Solar facilities shared by multiple community subscribers who receive credit on their electricity bills for their share of the power produced. Community solar allows members of a community to share the benefits of solar power on their property without installing it on their own property. Electricity generated by the community solar farm typically costs less than the price from utility companies.

Complete Streets

A “complete street” is a design approach that requires streets to be designed to support safe, convenient and comfortable travel and access for users of all ages and abilities regardless of their mode of transportation.



Consistency

Consistency means that an inventory should be internally consistent in all its elements over a period of years. An inventory is consistent if the same methodologies are used for the base and all subsequent years and if consistent data sets are used to estimate emissions or removals from sources or sinks. ([IPCC](#))

Continuous Emission Monitor (CEM)

A type of air emission monitoring system installed to operate continuously inside of a smokestack or other emission source. ([CARB](#))

Criteria Air Pollutant

An air pollutant for which acceptable levels of exposure can be determined and for which an ambient air quality standard has been set. Examples include: ozone, carbon monoxide, nitrogen dioxide, sulfur dioxide, and PM10 and PM2.5. The term "criteria air pollutants" derives from the requirement that the U.S. EPA must describe the characteristics and potential health and welfare effects of these pollutants. The U.S. EPA and CARB periodically review new scientific data and may propose revisions to the standards as a result. ([CARB](#))

D

Deforestation

Those practices or processes that result in the change of forested lands to non-forest uses. This is often cited as one of the major causes of the enhanced greenhouse effect for two reasons: 1) the burning or decomposition of the wood releases carbon dioxide; and 2) trees that once removed carbon dioxide from the atmosphere in the process of photosynthesis are no longer present and contributing to carbon storage. ([UNFCCC](#))

Distillate Fuel Oil

A general classification for one of the petroleum fractions produced in conventional distillation operations. It includes diesel fuels and fuel oils. Products known as No. 1, No. 2, and No. 4 diesel fuel are used in on-highway diesel engines, such as those in trucks and automobiles, as well as off-highway engines, such as those in railroad locomotives and agricultural machinery. Products known as No. 1, No. 2, and No. 4 fuel oils are used primarily for space heating and electric power generation. ([EIA](#))

E

Emissions

The release of a substance (usually a gas when referring to the subject of climate change) into the atmosphere. ([USEPA1](#))

Emission Factor

A coefficient that quantifies the emissions or removals of a gas per unit activity. Emission factors are often based on a sample of measurement data, averaged to develop a representative rate of emission for a given activity level under a given set of operating conditions. ([IPCC](#))

Emission Inventory

An estimate of the amount of pollutants emitted into the atmosphere from major mobile, stationary, area-wide, and natural source categories over a specific period of time such as a day or a year. ([CARB](#))

Emission Rate

The weight of a pollutant emitted per unit of time (e.g., tons / year). ([CARB](#))

Environmental Justice

The fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income with respect to the development, implementation and enforcement of environmental laws, regulations and policies



Estimation

Estimation is the assessment of the value of an unmeasurable quantity using available data and knowledge within stated computational formulas or mathematical models.

F

Fluorocarbons

Carbon-fluorine compounds that often contain other elements such as hydrogen, chlorine, or bromine. Common fluorocarbons include chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs), and perfluorocarbons (PFCs). ([UNFCCC](#))

Flux

Either (1) Raw materials, such as limestone, dolomite, lime, and silica sand, which are used to reduce the heat or other energy requirements of thermal processing of minerals (such as the smelting of metals). Fluxes also may serve a dual function as a slagging agent. (2) The rate of flow of any liquid or gas, across a given area; the amount of this crossing a given area in a given time. (e.g., "Flux of CO₂ absorbed by forests"). ([IPCC](#))

Fossil Fuel

Geologic deposits of hydrocarbons from ancient biological origin, such as coal, petroleum and natural gas.

Fuel Combustion

Fuel combustion is the intentional oxidation of materials within an apparatus that is designed to provide heat or mechanical work to a process, or for use away from the apparatus. ([IPCC](#))

Fugitive Emissions

Emissions that are not emitted through an intentional release through stack or vent. This can include leaks from industrial plant and pipelines. ([IPCC](#))

G

Geologic Carbon Sequestration

It is the process of injecting CO₂ from a source, such as coal-fired electric generating power plant, through a well into the deep subsurface. With proper site selection and management, geologic sequestration could play a major role in reducing emissions of CO₂. Research efforts to evaluate the technical aspects of CO₂ geologic sequestration are underway. ([USEPA4](#))

Global Warming

Global warming is an average increase in the temperature of the atmosphere near the Earth's surface and in the troposphere, which can contribute to changes in global climate patterns. Global warming can occur from a variety of causes, both natural and human induced. In common usage, "global warming" often refers to the warming that can occur as a result of increased emissions of greenhouse gases from human activities. Also see Climate Change ([USEPA1](#))

Global Warming Potential (GWP)

An index, based upon radiative properties of well-mixed greenhouse gases, measuring the radiative forcing of a unit mass of a given well-mixed greenhouse gas in the present-day atmosphere integrated over a chosen time horizon, relative to that of carbon dioxide. The GWP represents the combined effect of the differing times these gases remain in the atmosphere and their relative effectiveness in absorbing outgoing thermal infrared radiation. The Kyoto Protocol is based on GWPs from pulse emissions over a 100-year time frame. ([IPCC2](#))

GCOM Global Covenant of Mayors:

GCoM is the largest global alliance for city climate leadership, built upon the commitment of over 10,000 cities and



local governments. The alliance's mission is to mobilize and support climate and energy action in communities across the world.

Green Streets

A "green street" is a stormwater management approach that incorporates vegetation, soil, and engineered systems to slow, filter, and cleanse stormwater runoff from impervious surfaces.

Greenhouse Effect

Trapping and build-up of heat in the atmosphere (troposphere) near the earth's surface. Some of the heat flowing back toward space from the earth's surface is absorbed by water vapor, carbon dioxide, ozone, and several other gases in the atmosphere and then reradiated back toward the earth's surface. If the atmospheric concentrations of these greenhouse gases rise, the average temperature of the lower atmosphere will gradually increase. ([UNFCC](#))

Global Protocol for Community-Scale Greenhouse Gas Emissions Inventories:

A robust, transparent and globally-accepted framework that cities and local governments can use to consistently identify, calculate and report on city greenhouse gas emissions.

Greenhouse Gas

Any gas that absorbs infrared radiation in the atmosphere. Greenhouse gases include, but are not limited to, water vapor, carbon dioxide (CO₂), methane (CH₄), nitrous oxide (N₂O), hydrochlorofluorocarbons (HCFCs), ozone (O₃), hydrofluorocarbons (HFCs), perfluorocarbons (PFCs), and sulfur hexafluoride (SF₆). ([UNFCC](#))

Green Infrastructure

An approach to managing precipitation by reducing and treating stormwater at its source while delivering environmental, social, and economic benefits. Stormwater runoff can carry trash, bacteria, and other pollutants and is a major cause of water pollution in urban areas.

Gross Domestic Product (GDP)

The sum of gross value added, at purchasers' prices, by all resident and non-resident producers in the economy, plus any taxes and minus any subsidies not included in the value of the products in a country or a geographic region for a given period, normally one year. It is calculated without deducting for depreciation of fabricated assets or depletion and degradation of natural resources. ([IPCC3](#))

H

Halocarbons

A collective term for the group of partially halogenated organic species, including the chlorofluorocarbons (CFCs), hydrochlorofluorocarbons (HCFCs), hydrofluorocarbons (HFCs), halons, methyl chloride, methyl bromide, etc. Many of the halocarbons have large Global Warming Potentials. The chlorine and bromine-containing halocarbons are also involved in the depletion of the ozone layer. ([IPCC2](#))

Hydrocarbons

Strictly defined as molecules containing only hydrogen and carbon. The term is often used more broadly to include any molecules in petroleum which also contains molecules with S, N, or O. An unsaturated hydrocarbon is any hydrocarbon containing olefinic or aromatic structures. ([IPCC](#))

Hydrofluorocarbons (HFCs)

Compounds containing only hydrogen, fluorine, and carbon atoms. They were introduced as alternatives to ozone depleting substances in serving many industrial, commercial, and personal needs. HFCs are emitted as by-products of industrial processes and are also used in manufacturing. They do not significantly deplete the stratospheric ozone layer, but they are powerful greenhouse gases with global warming potentials ranging from 140 (HFC-152a) to 11,700 (HFC-23). ([USEPA1](#))



I

ICLEI Local Governments for Sustainability:

A membership organization for local governments to pursue reductions in carbon pollution and improvements in advancing sustainable urban development. ICLEI's members and team of experts work together through peer exchange, partnerships and capacity building to create systemic change for urban sustainability.

Intergovernmental Panel on Climate Change

The IPCC was established jointly by the United Nations Environment Programme and the World Meteorological Organization in 1988. The purpose of the IPCC is to assess information in the scientific and technical literature related to all significant components of the issue of climate change. The IPCC draws upon hundreds of the world's expert scientists as authors and thousands as expert reviewers. Leading experts on climate change and environmental, social, and economic sciences from some 60 nations have helped the IPCC to prepare periodic assessments of the scientific underpinnings for understanding global climate change and its consequences. With its capacity for reporting on climate change, its consequences, and the viability of adaptation and mitigation measures, the IPCC is also looked to as the official advisory body to the world's governments on the state of the science of the climate change issue. For example, the IPCC organized the development of internationally accepted methods for conducting national greenhouse gas emission inventories. ([USEPA1](#))

K

Kilowatt Hour (kWh):

A measure of electrical energy equivalent to a power consumption of 1,000 watts for one hour.

Kyoto Protocol

The Kyoto Protocol to the United Nations Framework Convention on Climate Change (UNFCCC) was adopted in 1997 in Kyoto, Japan, at the Third Session of the Conference of the Parties (COP) to the UNFCCC. It contains legally binding commitments, in addition to those included in the UNFCCC. Countries included in Annex B of the Protocol (most Organisation for Economic Cooperation and Development countries and countries with economies in transition) agreed to reduce their anthropogenic greenhouse gas emissions (carbon dioxide, methane, nitrous oxide, hydrofluorocarbons, perfluorocarbons, and sulphur hexafluoride) by at least 5% below 1990 levels in the commitment period 2008 to 2012. The Kyoto Protocol entered into force on 16 February 2005. ([IPCC2](#))

L

Land Use and Land Use Change

Land use refers to the total of arrangements, activities and inputs undertaken in a certain land cover type (a set of human actions). The term land use is also used in the sense of the social and economic purposes for which land is managed (e.g., grazing, timber extraction and conservation). Land use change refers to a change in the use or management of land by humans, which may lead to a change in land cover. Land cover and land use change may have an impact on the surface albedo, evapotranspiration, sources and sinks of greenhouse gases, or other properties of the climate system and may thus have a radiative forcing and/or other impacts on climate, locally or globally. ([IPCC2](#))

Living Streets

A "living street" combines the concepts of complete streets and green streets while putting additional focus on quality of life aspects for City residents.

LULUCF

Acronym for "Land Use, Land Use Change and Forestry", a category of activities in GHG inventories.

M

Megawatt Hour (MWh):

A measure of electrical energy equivalent to a power consumption of 1,000,000 watts for one hour.

**Methane (CH₄)**

A hydrocarbon that is a greenhouse gas with a global warming potential most recently estimated at 25 times that of carbon dioxide (CO₂). Methane is produced through anaerobic (without oxygen) decomposition of waste in landfills, flooded rice fields, animal digestion, decomposition of animal wastes, production and distribution of natural gas and petroleum, coal production, and incomplete fossil fuel combustion. The GWP is from the IPCC's Fourth Assessment Report (AR4).

Metric Ton

The tonne (t) or metric ton, sometimes referred to as a metric tonne, is an international unit of mass. A metric ton is equal to a Megagram (Mg), 1000 kilograms, 2204.6 pounds, or 1.1023 short tons.

Million Metric Tons (MMT)

Common measurement used in GHG inventories. It is equal to a Teragram (Tg).

Mitigation:

Actions taken to limit the magnitude or rate of long-term global warming and its related effects. Climate change mitigation generally involves reductions in human emissions of greenhouse gases.

Mobile Sources

Sources of air pollution such as automobiles, motorcycles, trucks, off-road vehicles, boats, and airplanes. ([CARB](#))

Mode Share

The percentage of travelers using a particular type of transportation. Modal share is an important component in developing sustainable transport within a city or region because it reveals the level of utilization of various transportation methods. The percentage reflects how well infrastructure, policies, investments, and land-use patterns support different types of travel.

Model

A model is a quantitatively-based abstraction of a real-world situation which may simplify or neglect certain features to better focus on its more important elements. ([IPCC](#))

Municipal Solid Waste (MSW)

Residential solid waste and some non-hazardous commercial, institutional, and industrial wastes. This material is generally sent to municipal landfills for disposal. ([USEPA1](#))

N**Natural Sources**

Non-manmade emission sources, including biological and geological sources, wildfires, and windblown dust. ([CARB](#))

Net-zero Emissions (NZE)

Building A building or property that generates or offsets all energy consumed. If the City develops a NZE building code, this definition will have to be refined to provide additional guidance on calculating emissions and offsets to achieve net-zero emissions.

Nitrogen Fixation

Conversion of atmospheric nitrogen gas into forms useful to plants and other organisms by lightning, bacteria, and blue-green algae; it is part of the nitrogen cycle. ([UNFCCC](#))



Nitrogen Oxides (NO_x)

Gases consisting of one molecule of nitrogen and varying numbers of oxygen molecules. Nitrogen oxides are produced in the emissions of vehicle exhausts and from power stations. In the atmosphere, nitrogen oxides can contribute to formation of photochemical ozone (smog), can impair visibility, and have health consequences; they are thus considered pollutants. ([NASA](#))

Nitrous Oxide (N₂O)

A powerful greenhouse gas with a global warming potential of 298 times that of carbon dioxide (CO₂). Major sources of nitrous oxide include soil cultivation practices, especially the use of commercial and organic fertilizers, manure management, fossil fuel combustion, nitric acid production, and biomass burning. The GWP is from the IPCC's Fourth Assessment Report (AR4).

O

Ozone (O₃)

Ozone, the triatomic form of oxygen (O₃), is a gaseous atmospheric constituent. In the troposphere, it is created both naturally and by photochemical reactions involving gases resulting from human activities (smog).

Tropospheric ozone acts as a greenhouse gas. In the stratosphere, it is created by the interaction between solar ultraviolet radiation and molecular oxygen (O₂). Stratospheric ozone plays a dominant role in the stratospheric radiative balance. Its concentration is highest in the ozone layer. ([IPCC2](#))

Ozone Depleting Substances (ODS)

A compound that contributes to stratospheric ozone depletion. Ozone-depleting substances (ODS) include CFCs, HCFCs, halons, methyl bromide, carbon tetrachloride, and methyl chloroform. ODS are generally very stable in the troposphere and only degrade under intense ultraviolet light in the stratosphere. When they break down, they release chlorine or bromine atoms, which then deplete ozone. ([IPCC](#))

P

Perfluorocarbons (PFCs)

A group of human-made chemicals composed of carbon and fluorine only. These chemicals (predominantly CF₄ and C₂F₆) were introduced as alternatives, along with hydrofluorocarbons, to the ozone depleting substances. In addition, PFCs are emitted as by-products of industrial processes and are also used in manufacturing. PFCs do not harm the stratospheric ozone layer, but they are powerful greenhouse gases: CF₄ has a global warming potential (GWP) of 7,390 and C₂F₆ has a GWP of 12,200. The GWP is from the IPCC's Fourth Assessment Report (AR4).

Photosynthesis

The process by which plants take carbon dioxide from the air (or bicarbonate in water) to build carbohydrates, releasing oxygen in the process. There are several pathways of photosynthesis with different responses to atmospheric carbon dioxide concentrations. ([IPCC2](#))

Point Sources

Specific points of origin where pollutants are emitted into the atmosphere such as factory smokestacks. ([CARB](#))

Power Purchase Agreement (PPA)

A power purchase agreement (PPA), or electricity power agreement, is a contract between two parties; one party generates electricity (the seller) and the other party looks to purchase electricity (the buyer). Individual customers and organizations may enter into PPAs with individual developers or may join together to seek better prices as a group. PPAs can allow longer term commitments to renewable energy as well as a form of "direct" investing in new renewable energy generation.

Property-Assessed Clean Energy (PACE)



A program created for financing energy efficiency and renewable improvements on private property. Private property can include residential, commercial or industrial properties. Improvements can include energy efficiency, renewable energy and water conservation upgrades to a building.

Process Emissions

Emissions from industrial processes involving chemical transformations other than combustion. ([IPCC](#))

R

Radiative Forcing

A change in the balance between incoming solar radiation and outgoing infrared (i.e., thermal) radiation. Without any radiative forcing, solar radiation coming to the Earth would continue to be approximately equal to the infrared radiation emitted from the Earth. The addition of greenhouse gases to the atmosphere traps an increased fraction of the infrared radiation, reradiating it back toward the surface of the Earth and thereby creates a warming influence. ([UNFCCC](#))

Reforestation

Planting of forests on lands that have previously contained forests but that have been converted to some other use. ([IPCC2](#))

Regeneration

The act of renewing tree cover by establishing young trees, naturally or artificially - note regeneration usually maintains the same forest type and is done promptly after the previous stand or forest was removed. ([CSU](#))

Renewable Energy

Energy resources that are naturally replenishing such as solar, wind, hydro and geothermal energy.

Renewable Energy Credits (RECs)

A market-based instrument that represents the property rights to the environmental, social and other non-power attributes of renewable electricity generation. RECs are issued when one megawatt-hour (MWh) of electricity is generated and delivered to the electricity grid from a renewable energy resource. The single largest category of reductions in Evanston's emissions has been through the purchase of RECs.

Residence Time

Average time spent in a reservoir by an individual atom or molecule. Also, this term is used to define the age of a molecule when it leaves the reservoir. With respect to greenhouse gases, residence time usually refers to how long a particular molecule remains in the atmosphere. ([UNFCCC](#))

Reservoir

Either (1) a component or components of the climate system where a greenhouse gas or a precursor of a greenhouse gas is stored; or (2) Water bodies regulated for human activities (energy production, irrigation, navigation, recreation etc.) where substantial changes in water area due to water level regulation may occur. ([IPCC](#))

Respiration

The process whereby living organisms convert organic matter to carbon dioxide, releasing energy and consuming molecular oxygen. ([IPCC2](#))

Retro-commissioning

The systematic process to improve an existing building's performance ensuring the building controls are running efficiently and balancing the designed use and the actual use of the building.

**Ride-share**

The practice of sharing transportation in the form of carpooling or vanpooling. It is typically an arrangement made through a ride-matching service that connects drivers with riders.

S**Scope 1:**

Scope 1 includes emissions being released within the city limits resulting from combustion of fossil fuels and from waste decomposition in the landfill and wastewater treatment plant.

Scope 2:

Scope 2 includes emissions produced outside the city that are induced by consumption of electrical energy within the city limits.

Scope 3:

Scope 3 includes emissions of potential policy relevance to local government operations that can be measured and reported but do not qualify as Scope 1 or 2. This includes, but is not limited to, outsourced operations and employee commute.

Short Ton

Common measurement for a ton in the United States. A short ton is equal to 2,000 lbs or 0.907 metric tons. ([USEPA1](#))

Sink

Any process, activity or mechanism that removes a greenhouse gas, an aerosol or a precursor of a greenhouse gas or aerosol from the atmosphere. ([IPCC2](#))

Social Cost of Carbon

The social cost of carbon is a measure of the economic harm from climate change impacts, expressed as the dollar value of the total damages from emitting one ton of carbon dioxide into the atmosphere.

Solar Radiation

Electromagnetic radiation emitted by the Sun. It is also referred to as shortwave radiation. Solar radiation has a distinctive range of wavelengths (spectrum) determined by the temperature of the Sun, peaking in visible wavelengths. ([IPCC2](#))

Source

Any process, activity or mechanism that releases a greenhouse gas, an aerosol or a precursor of a greenhouse gas or aerosol into the atmosphere. ([IPCC2](#))

Stationary Sources

Non-mobile sources such as power plants, refineries, and manufacturing facilities which emit air pollutants. ([CARB](#))

Sulfur Dioxide (SO₂)

A compound composed of one sulfur and two oxygen molecules. Sulfur dioxide emitted into the atmosphere through natural and anthropogenic processes is changed in a complex series of chemical reactions in the atmosphere to sulfate aerosols. These aerosols are believed to result in negative radiative forcing (i.e., tending to cool the Earth's surface) and do result in acid deposition (e.g., acid rain). ([UNFCCC](#))

Sulfur Hexafluoride (SF₆)

A colorless gas soluble in alcohol and ether, slightly soluble in water. A very powerful greenhouse gas with a global warming potential most recently estimated at 22,800 times that of carbon dioxide (CO₂). SF₆ is used primarily in



electrical transmission and distribution systems and as a dielectric in electronics. This GWP is from the IPCC's Fourth Assessment Report (AR4).

T

Terrestrial Carbon Sequestration

It is the process through which carbon dioxide (CO₂) from the atmosphere is absorbed by trees, plants and crops through photosynthesis, and stored as carbon in biomass (tree trunks, branches, foliage and roots) and soils. The term "sinks" is also used to refer to forests, croplands, and grazing lands, and their ability to sequester carbon. Agriculture and forestry activities can also release CO₂ to the atmosphere. Therefore, a carbon sink occurs when carbon sequestration is greater than carbon releases over some time period. ([USEPA3](#))

Therm:

A unit of measure for energy that is equivalent to 100,000 British Thermal units, or roughly the energy in 100 cubic feet of natural gas. Often used for measuring natural gas usage for billing purposes.

Total Organic Gases (TOG)

Gaseous organic compounds, including reactive organic gases and the relatively unreactive organic gases such as methane. ([CARB](#))

Transparency

Transparency means that the assumptions and methodologies used for an inventory should be clearly explained to facilitate replication and assessment of the inventory by users of the reported information. The transparency of inventories is fundamental to the success of the process for the communication and consideration of information. ([IPCC](#))

Trend

The trend of a quantity measures its change over a time period, with a positive trend value indicating growth in the quantity, and a negative value indicating a decrease. It is defined as the ratio of the change in the quantity over the time period, divided by the initial value of the quantity, and is usually expressed either as a percentage or a fraction. ([IPCC](#))

U

Urban Tree Canopy

Describes the makeup and characteristics of trees within the urban environment.

V

VMT Vehicle Miles Traveled:

A unit used to measure vehicle travel made by private vehicles, including passenger vehicles, truck, vans and motorcycles. Each mile traveled is counted as one vehicle mile regardless of the number of persons in the vehicle.

Vision Zero:

Vision Zero is a strategy to eliminate all traffic fatalities and severe injuries, while increasing safe, healthy, equitable mobility for all. <https://visionzeronetwork.org/>

W

Water Vapor

The most abundant greenhouse gas; it is the water present in the atmosphere in gaseous form. Water vapor is an important part of the natural greenhouse effect. While humans are not significantly increasing its concentration, it contributes to the enhanced greenhouse effect because the warming influence of greenhouse gases leads to a positive water vapor feedback. In addition to its role as a natural greenhouse gas, water vapor plays an important



role in regulating the temperature of the planet because clouds form when excess water vapor in the atmosphere condenses to form ice and water droplets and precipitation. ([UNFCCC](#))

Weather

Atmospheric condition at any given time or place. It is measured in terms of such things as wind, temperature, humidity, atmospheric pressure, cloudiness, and precipitation. In most places, weather can change from hour-to-hour, day-to-day, and season-to-season. Climate in a narrow sense is usually defined as the "average weather", or more rigorously, as the statistical description in terms of the mean and variability of relevant quantities over a period of time ranging from months to thousands or millions of years. The classical period is 30 years, as defined by the World Meteorological Organization (WMO). These quantities are most often surface variables such as temperature, precipitation, and wind. Climate in a wider sense is the state, including a statistical description, of the climate system. A simple way of remembering the difference is that climate is what you expect (e.g. cold winters) and 'weather' is what you get (e.g. a blizzard). ([USEPA1](#))

Z

Zero Emission Vehicles (ZEV)

A vehicle that does not emit harmful emissions during operation. Harmful emissions can have a negative impact on human health and the environment. Electric (battery-powered) cars, electric trains, hydrogen-fueled vehicles, bicycles, and carriages are considered to produce zero emissions.

Zero Waste

The conservation of all resources by means of responsible production, consumption, reuse, and recovery of products, packaging, and materials without burning and with no discharges to land, water, or air that threaten the environment or human health.

Section A3

Supporting Research



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Supporting Research

Climate Action Baseline Study

To support the Town of Hartford Climate Action Plan planning team members, the paleBLUEdot team assembled the Draft Hartford Carbon Neutral Pathways and Strategic Goals. This document provided a review of a wide range of community wide metrics, data, and comparisons against regional peer communities for each of the climate action plan sectors included in this report. The document also included preliminary sector specific draft strategic goal recommendations for the Climate Action Plan planning team to consider, discuss, and revise at the beginning of the planning team effort.

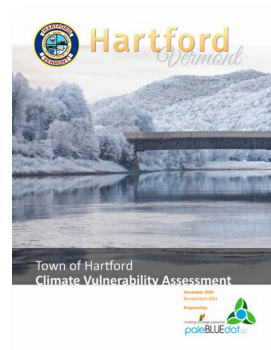
Click on the link below or scan the QR code to access the document:
<https://view.publitas.com/palebluedot/hartford-carbon-neutral-pathways-and-strategic-goals/>



Climate Vulnerability Assessment

At the beginning of the Climate Action Planning effort, the paleBLUEdot team developed a Climate Vulnerability Assessment for the Town of Hartford. The assessment included the identification of vulnerable populations within the community and possible impacts and risks associated with projected climate change for the region. paleBLUEdot mapped the vulnerable populations within the Town as well as existing town infrastructure and resources which may be capable of supporting climate adaptation strategies. These assessments provided a basis for understanding vulnerabilities and resources which supported the decision making process needed for identifying and prioritizing climate adaptation measures to be included in the final Climate Action Plan. The Assessment focused on Town-Wide vulnerabilities with a particular focus on climate vulnerable populations to ensure all populations benefit from proposed implementation measures.

Click on the link below or scan the QR code to access the document:
<https://view.publitas.com/palebluedot/hartford-climate-vulnerability-assessment-111820/>



Supporting Research

Community Wide GHG Inventory

paleBLUEDot compiled a Community Greenhouse Gas Inventory. The assessment included collection of raw data and calculation of greenhouse gas emissions for each of the primary emissions sectors included in this Climate Action Plan. The inventory included both community-wide emissions as well as municipal operations. The report included community-wide emissions comparisons against communities within the State and region.

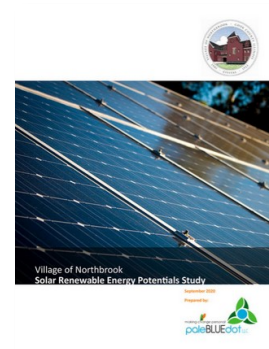
Click on the link below or scan the QR code to access the document:
<https://view.publitas.com/palebluedot/hartford-greenhouse-gas-inventory/>



Community Wide Solar Energy Potentials Study

In support of development of effective renewable energy goalsetting and to establish strategies addressing renewable energy development, paleBLUEDot conducted a Community-Wide solar pv potentials study including economic and environmental benefits. This effort included:

- 1) Collect Town-wide satellite data (NREL, NOAA, and NASA data).
- 2) Determine building roof stock characteristics and solar suitable buildings, calculate total suitable areas by roof configuration/orientation.
- 3) Calculate total rooftop solar capacity and annual energy generation by roof configuration/orientation.
- 4) Identify cost efficient annual energy generation potential.
- 5) Research solar market at national, State and regional levels. Identify low, medium, and high solar market absorption rates and Village-wide solar pv goals.
- 6) Identify environmental and economic benefit of solar including economic development and job creation potential. (NREL JEDI model)
- 7) Develop Town-Wide Renewable Solar Energy Potentials report.



Click on the link below or scan the QR code to access the document:
<https://view.publitas.com/palebluedot/hartford-renewable-potentials-study/>

Section A4

Cumulative Potential Cost Savings



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Summary of Estimated Cumulative Savings of Modeled Reductions
Town of Hartford

Transportation

Notes VMT Reductions (public transit, bike, walk, etc)

Formula:

Cumulative vehicle miles saved x Average vehicle operation cost per mile = Gross VMT savings

VMT saved (year 10) 8,076,066

Cumulative vehicle miles saved: 36,342,297

1 Average vehicle operating cost per mile: \$0.688

Gross VMT savings \$25,003,500

1 Savings per VMT based on AAA estimates <https://exchange.aaa.com/automotive/driving-costs/#.YGUQZD9OIPY> ,
<https://www.slashgear.com/aaa-says-it-costs-about-74-cents-per-mile-to-drive-23496316/> <https://www.thesimpledollar.com/save-money/is-it-really-cheaper-to-ride-the-bus/>

EV and Alt Fuel Conversions

Formula:

Cumulative VMT converted to EV/alt fuel x Average vehicle operation cost savings per mile = Gross EV VMT savings

VMT converted to EV/Alt fuel (year 10) 18,785,163

Cumulative VMT converted to EV/alt fuel 84,533,236

3 Average cost savings per mile: \$0.103

Gross EV VMT savings \$8,692,834

3 Savings per VMT converted from ICE to EV <https://www.energy.gov/eere/electricvehicles/saving-fuel-and-vehicle-costs>Savings per
VMT converted from ICE to EV <https://www.energy.gov/eere/electricvehicles/saving-fuel-and-vehicle-costs>

Potential Total Cumulative Transportation Cost Savings

Formula:

Gross VMT savings - Increased spending on public transit + Gross EV VMT savings = Potential Total Cumulative Transportation Cost Savings

Gross VMT savings \$25,003,500

Gross EV VMT savings \$8,692,834

Potential Total Cumulative Transportation Cost Savings \$33,696,335

Summary of Estimated Cumulative Savings of Modeled Reductions Town of Hartford

Notes Energy - Residential

Residential Savings - grid electricity to solar

Formula:

Cumulative kWh converted to solar x Average cost savings per kWh = Residential solar savings

Residential kWh converted (year 10)	3,022,275
Cumulative residential kWh converted	13,600,238
3 Average solar cost savings per kWh	\$0.084
Residential solar savings	\$1,147,860

Residential Savings - electrical energy efficiency

Formula:

Cumulative kWh saved from energy efficiency x Average cost per kWh = Residential electrical energy efficiency savings

Residential kWh saved (year 10)	10,074,250
Cumulative residential kWh saved	45,334,125
4 Average cost per kWh	\$0.169
Residential electrical energy efficiency savings	\$7,652,400

4 Energy efficiency savings per kWh saved based on average electricity cost per kWh: <https://www.electricitylocal.com/>

Residential Savings - natural gas energy efficiency

Formula:

Cumulative therms saved from energy efficiency x Average cost per therm = Residential natural gas energy efficiency savings

Residential therms saved (year 10)	94,627
Cumulative residential therms saved	425,823
5 Average cost per therm	\$34.040
Residential electrical energy efficiency savings	\$14,495,002

5 Energy efficiency savings for natural gas is based on average natural gas cost per therm <https://naturalgaslocal.com/>

Residential Savings - increased electrical expenditures from fuel switching

Formula:

(Cumulative increased kWh from fuel switching + Cumulative increased kWh from electric vehicle charging) x Average cost per kWh =

Residential increased electrical costs

Residential increased kWh from fuel switching (year 10)	27,733,354
4 Average cost per kWh	\$0.169
Residential increased electrical costs	-\$21,066,256

Potential Total Cumulative Residential Energy Cost Savings

Formula:

Residential solar savings + Residential community solar savings + Residential electrical efficiency savings + Residential natural gas energy efficiency savings - Residential increased electrical costs = Potential Total Cumulative Residential Energy Savings

Residential solar savings	\$1,147,860
Residential electrical efficiency savings	\$7,652,400
Residential natural gas energy efficiency savings	\$14,495,002
Residential increased electrical costs	-\$21,066,256
Potential Total Cumulative Residential Energy Savings	\$2,229,006

Summary of Estimated Cumulative Savings of Modeled Reductions Town of Hartford

Notes Energy - Commercial

Commercial Savings - grid electricity to solar

Formula:

Cumulative kWh converted to solar x Average cost savings per kWh = Commercial solar savings

Commercial kWh converted (year 10) 3,872,925

Cumulative residential kWh converted 17,428,163

3 Average solar cost savings per kWh \$0.068

Commercial solar savings \$1,187,729

Commercial Savings - electrical energy efficiency

Formula:

Cumulative kWh saved from energy efficiency x Average cost per kWh = Commercial electrical energy efficiency savings

Commercial kWh saved (year 10) 15,491,700

Cumulative commercial kWh saved 69,712,650

4 Average cost per kWh \$0.136

Commercial electrical energy efficiency savings \$9,501,834

4 Energy efficiency savings per kWh saved based on average electricity cost per kWh: <https://www.electricitylocal.com/>

Commercial Savings - natural gas energy efficiency

Formula:

Cumulative therms saved from energy efficiency x Average cost per therm = Commercial natural gas energy efficiency savings

Commercial therms saved (year 10) 89,645

Cumulative commercial therms saved 403,402

5 Average cost per therm \$34.040

Commercial electrical energy efficiency savings \$13,731,790

5 Energy efficiency savings for natural gas is based on average natural gas cost per therm <https://naturalgaslocal.com/>

Commercial Savings - increased electrical expenditures from fuel switching

Formula:

(Cumulative increased kWh from fuel switching + Cumulative increased kWh from electric vehicle charging) x Average cost per kWh =

Commercial increased electrical costs

Commercial increased kWh from fuel switching (year 10) 26,273,098

4 Average cost per kWh \$0.136

Commercial increased electrical costs -\$16,114,605

Potential Total Cumulative Commercial Energy Cost Savings

Formula:

Commercial solar savings + Commercial community solar savings + Commercial electrical efficiency savings + Commercial natural gas energy efficiency savings - Commercial increased electrical costs = Potential Total Cumulative Commercial Energy Savings

Commercial solar savings \$1,187,729

Commercial electrical efficiency savings \$9,501,834

Commercial natural gas energy efficiency savings \$13,731,790

Commercial increased electrical costs -\$16,114,605

Potential Total Cumulative Commercial Energy Savings \$8,306,749

Summary of Estimated Cumulative Savings of Modeled Reductions
Town of Hartford

Notes **Solid Waste - Residential**

Residential savings - Food Waste Reduction

Formula:

Cumulative tons of food waste reduced and diverted x Average cost savings per ton = Residential food waste savings

Residential food waste reduced (year 10) 491

Cumulative residential food waste reduced 2,207

6 Average cost savings per ton reduced \$2,469

Residential food waste savings \$5,449,950

6 Value per ton of residential food waste avoided is based on average for Prevent and Recover strategies by ReFED "A ROADMAP TO

Potential Total Cumulative Residential Solid Waste Reduction Cost Savings

Residential food waste savings \$5,449,950

Notes **Solid Waste - Commercial**

Commercial savings - Food Waste Reduction

Formula:

Cumulative tons of food waste reduced and diverted x Average cost savings per ton = Commercial food waste savings

Commercial food waste reduced (year 10) 600

Cumulative residential food waste reduced 2,698

8 Average cost savings per ton reduced \$494

Commercial food waste savings \$1,332,210

8 Values for commercial food waste are estimated at 20% of residential (retail) rates by ReFED "A ROADMAP TO REDUCE U.S. FOOD

Potential Total Cumulative Solid Waste Savings

Formula:

Residential Food Waste Savings + Commercial Solid Waste Savings + Commercial Food Waste Savings = Potential Total Cumulative Solid Waste Savings

Residential Food Waste Savings \$5,449,950

Commercial Solid Waste Savings \$0

Commercial Food Waste Savings \$1,332,210

Potential Total Cumulative Solid Waste Savings \$6,782,160



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Town of Hartford

Climate Action Plan



Community Review Summary

The Draft Climate Action Plan was made available for review on-line at <https://palebluedot.llc/hartford-cap-review>. The on-line review site was published on June 4th and is still available for review comments. This webpage provided interactive feedback forms for interested individuals to provide comments, suggestions, and indicate their level of support for the plan. Reviewers could review the entire plan over all, as well as provide review and comment on any of the individual sections.

The following summarizes the reviews received as of June 22nd:

Total Individual Reviewers: 10

Total Reviews Received: 25

(includes multiple section reviews provided by single individuals)

Review Support for Plan Components

■ Agree completely	52%
■ Agree Mostly/Somewhat	16%
■ Neither Agree nor Disagree	32%
■ Disagree Mostly/Somewhat	0%
■ Disagree Completely	0%



Hartford
Vermont





AGENDA MEMORANDUM

June 29, 2021

Town Selectboard Meeting

Submitted by: Braedon Vail, Deputy Chief of Police

Subject: **Emergency Communications Center Upgrade RFP Bid Award**

Background: The Police Department's Emergency Communications Center (ECC) is an integral hub serving our community's, as well as several other communities' public safety needs. Our ECC serves as one of six 911 Public Safety Answering Points (PSAP) for the State of Vermont as well as providing local dispatching services for 12 communities. Our ECC is staffed 24/7/365.

The center consists of three (3) dispatching consoles. The existing consoles were purchased in 2002 and have outlived their effective life span. Three years ago, capital improvement reserve funding began to prepare for the replacement of the consoles and carpeting within the center. The funding is one year ahead of schedule.

Discussion: An RFP was issued soliciting bids for the console upgrade to remove the old consoles and install new consoles. The Town received bids from five (5) vendors. Xybix Systems proposed \$76,290.36 for 3 consoles and provided additional services of carpeting for \$7,364; Sustema proposed \$56,149.33 for 3 consoles with no additional services; Desience/Russ Bassett Consoles proposed \$42,378.05 for 3 consoles with no additional services; Watson Consoles proposed \$53,602.25 for 3 consoles with no additional services; and Evans Consoles proposed \$85,268.01 for 3 stations with no additional services.

Financial Impact: All funding currently exists in the reserve fund. \$86,000 exists for the console replacement and \$10,000 for carpeting replacement.

Recommendation: Authorize the Town Manager to award the project to Xybix Systems for \$76,290.36 for the consoles and \$7,364 for carpeting. This recommendation is based upon the fact that Xybix has one of the best warranties in the industry, they were the only bidder that provides additional services of flooring which will aid in ease of project

management as we would only have to work with one vendor, the layout and design of the consoles provided the best access to computer equipment for IT personnel, and the overall quality of the consoles.

Attachments: Bid tabulation; Proposals

TOWN OF HARTFORD
171 BRIDGE STREET
WRJ, VT 05001

BID TABULATION SUMMARY
ECC Console Workstations

DEPARTMENT: Police

DATE: 6/9/2021 at 1PM

Tabulated By: VAC

	Name & Address of Bidder	Bid	ADDTL. SWC-CARPET	COMM SUPERVISR. OFFICE RUNTIME	
1	Xybix Systems, Inc. 8207 Southpark Cir Littleton, CO 80120	\$76,290.36 3 STATIONS	\$7,364 CARPETING SPOT SWC	\$22,250.96 SUP. OFFICE	
2	Sustema - Vanessa Papandrea 172 Brunswick Boul Pointe-Claire QC H9R 5P9 Canada	\$56,149.33 3 STATIONS	—	—	
3	desienceConsoles 8189 Byron Road Whittier, CA 90606	\$42,378.05 3 STATIONS	—	\$8,615.75 SUP. OFFICE	
4	Watsonconsoles 26246 Twelve Trees Lane NW Paulsbo, Washington 98370	\$53,602.25 3 STATIONS	—	—	
5	EVANS CONSOLES INC. 1577 SPRINGHILL RD, 110 VIENNA, VA 22182	\$85,268.01 3 STATIONS	—	—	
6					
7					
8					
9					
10					

Xybix Systems, Inc.
8207 SouthPark Circle
Littleton CO 80120
Phone: 303-683-5656
Fax: 303-683-5454
taylorn



Quote Number: 28748

Quote Date: 6/3/2021
Revision: B
Orig Create Date: 6/3/2021
Expires: 9/1/2021
Opp #: 0024374

Quote

Terms: 50% DEP;40% INSTALL;10% PUNCH

Page: 1 of 3

QUOTE TO: Acct: HARVTPWHVT Hartford VT Police 812 VA Cutoff Road White River Junction VT 05001 Phone: Email:	SHIP TO: Hartford VT Police 812 VA Cutoff Road White River Junction,, VT 05001 USA Salesperson: SUSANNE LOTTIE Phone: (207) 343-1229 Email: susannel@xybix.com
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Standard 2021 Price List
Eagle Line
*Tax Exempt

06.03.2021-R2/ Add storage cabs, panels 42H, Seperate Sup. room/TAN
04.27.2021-R1/ TAN
04.16.2021-R0/TAN

All equipment and electrical must be removed from the existing workstations prior to removal. Removal is priced to take place during the installation of the new Xybix workstations.
Removal does not include any patch or paint needed for any part of the workstation that is permanently mounted to the wall currently.

Line	Part Num	Desc	Qty	U/M	List Ea.	Disc. %	Disc. Price	Net Price
1.00	12343.	Panel System Priced by the Linear Foot: 46 Grade 3 Fabric 12343-1-DS - 29-48in - 46.0 LF @ \$299.00/LF Upper Tiles Fabric Color: TBD Grade 3 G3 Lower Tiles Fabric Color: TBD Grade 3 G3 Panel Trim Color: Black	1.00	EA	\$13,754.00	36.00 %	\$8,802.56	\$8,802.56
1.01	15101	Acrylic For Panel Frame 36"x10" 47	7.00	EA	\$257.00	36.00 %	\$164.48	\$1,151.36
1.02	15102	Acrylic For Panel Frame 42"x10" 48	6.00	EA	\$316.00	36.00 %	\$202.24	\$1,213.44
1.03	14145-BLK	Cable Pole 96" - Alum Black 6	4.00	EA	\$102.00	50.00 %	\$51.00	\$204.00
2.00	14487-3D.	Adj. Table Worksurface - Corner Dual Surface - 78L x 78R - Cable Management Included 7	3.00	EA	\$2,460.00	50.00 %	\$1,230.00	\$3,690.00
3.00	15702	L5 Table Base 9	3.00	EA	\$7,916.00	50.00 %	\$3,958.00	\$11,874.00
4.00	15498.	Acrylic Shroud 2 - - 1 - Corner Dual Surface - 78L x 78R 11	3.00	EA	\$309.00	50.00 %	\$154.50	\$463.50
4.01	15560	Acrylic Cleaning Kit 12	1.00	EA	\$119.00	50.00 %	\$59.50	\$59.50

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8207 SouthPark Circle
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taylorn



Quote

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Terms: 50% DEP;40% INSTALL;10% PUNCH

Page: 2 of 3

Line	Part Num	Desc	Qty	U/M	List Ea.	Disc. %	Disc. Price	Net Price
4.03	12757-3D.	Monitor Mount 2 - Rollervision - - 1 - Corner Dual Surface - 78L x 78R16127 - Std VESA Mount 2 HI 2 Knuckle Qty = 5 Total: \$3,730.00	18	3.00 EA	\$5,680.00	50.00 %	\$2,840.00	\$8,520.00
5.00	15095	HDMI Cable w/ Ethernet M/M 25' High Speed	10	30.00 EA	\$92.00	50.00 %	\$46.00	\$1,380.00
5.02	16130-8	Datadock2 - Keyboard Snap-In Cable Organizer Includes: 8 - USB Ports 1 - RJ45 Port	20	3.00 EA	\$627.00	50.00 %	\$313.50	\$940.50
6.00	15848	Grounding Kit Full Station R56 Compliant	21	3.00 EA	\$1,479.00	50.00 %	\$739.50	\$2,218.50
6.01	11792-BLK	Power Bar - 10 Outlet With Black Sticker	22	3.00 EA	\$163.00	50.00 %	\$81.50	\$244.50
6.02	11792-OR	Power Bar - 10 Outlet With Orange Sticker	23	3.00 EA	\$163.00	50.00 %	\$81.50	\$244.50
7.00	14783.	Bias Lighting For MyClimate with LUX2 Task Lights	24	3.00 EA	\$593.00	50.00 %	\$296.50	\$889.50
7.01	15618MCC	Task Light Pair LUX2 LED My Climate	25	3.00 EA	\$596.00	50.00 %	\$298.00	\$894.00
8.00	15463	Shelf Under Surface 19W x 9D - Metal	26	3.00 EA	\$152.00	50.00 %	\$76.00	\$228.00
8.01	15476	Shelf Under Surface USB Charging Upgrade Assembly	27	3.00 EA	\$127.00	50.00 %	\$63.50	\$190.50
9.00	15620MCC	MyClimate Personal Climate Control With Forced Air Heat 250W X2 = 500W	28	3.00 EA	\$2,364.00	50.00 %	\$1,182.00	\$3,546.00
10.00	12033-3D.	Return Worksurface - 36Wx30D	29	1.00 EA	\$537.00	50.00 %	\$268.50	\$268.50
10.01	12033-3D.	Return Worksurface - 42Wx30D	30	2.00 EA	\$537.00	50.00 %	\$268.50	\$537.00
10.02	12033-3D.	Return Worksurface - 18Wx36D	31	3.00 EA	\$537.00	50.00 %	\$268.50	\$805.50
10.03	12033-3D- FT.	Flip Top Return Worksurface - 42Wx36D	32	3.00 EA	\$537.00	50.00 %	\$268.50	\$805.50
11.00	16209	Cable Bridge Corner Angled Left Side	34	3.00 EA	\$239.00	50.00 %	\$119.50	\$358.50
11.01	16210	Cable Bridge Corner Angled Right Side	35	3.00 EA	\$239.00	50.00 %	\$119.50	\$358.50
11.02	15490-3D- FT.	CPU Cabinet - ERGO ACCESS Under Work Surface 42Wx34.5D With Flip Top Hinge	37	3.00 EA	\$1,841.00	50.00 %	\$920.50	\$2,761.50

Xybix Systems, Inc.
8207 SouthPark Circle
Littleton CO 80120
Phone: 303-683-5656
Fax: 303-683-5454
taylorn



Quote

Quote Number: 28748

Quote Date: 6/3/2021
Revision: B
Orig Create Date: 6/3/2021
Expires: 9/1/2021
Opp #: 0024374

Terms: 50% DEP;40% INSTALL;10% PUNCH

Page: 3 of 3

Line	Part Num	Desc	Qty	U/M	List Ea.	Disc. %	Disc. Price	Net Price
12.00	11352-3D.	Drawer Pedestal - Fixed - Single - 18W - 6-6-12 Drawers 18W 22D	38	3.00 EA	\$1,288.00	50.00 %	\$644.00	\$1,932.00
14.00	13049-3D.	Lateral File - 48W3 Drawer 42H	30	1.00 EA	\$2,779.00	50.00 %	\$1,389.50	\$1,389.50
15.00	11765-3D.	Bookcase - UnderWS W/Toekick - 12.5W, 28H, 17D	49	2.00 EA	\$717.00	50.00 %	\$358.50	\$717.00
15.01	11766-3D.	Bookcase - UnderWS W/Toekick - 36W, 28H, 22D	50	1.00 EA	\$733.00	50.00 %	\$366.50	\$366.50
16.00	13679-3D.	Storage Cabinet - UnderWS W/Toekick - 42W, 42H, 22D	51	1.00 EA	\$1,741.00	50.00 %	\$870.50	\$870.50
90.00	16139	Installers Kit Eagle Line	42	3.00 EA	\$0.00	0.00 %	\$0.00	\$0.00
99.00	Other	Other Charges & Services	43	1.00 EA	\$0.00	0.00 %	\$0.00	\$0.00

Line (43) - Miscellaneous Charge -

Description	Ext. Price
1.) Freight	7,033.00
2.) Installation	10,792.50
3.) Removal x3	540.00

List Price Total:	\$110,964.00	Lines Total:	\$57,924.86
		Line Miscellaneous Charges Total:	\$18,365.50
		Taxes Total:	\$0.00
		Quote Total:	\$76,290.36

Note 1:
All quoted taxes are estimated. Any applicable taxes, fees, permits, etc. must be added to this quote.

Note 2:
Where installation is listed on quote it is based in non-union labor and on one trip for installation only. Client is responsible for coordination of Technicians and other Vendors/Contractors. Waiting time will be charged at the rate of \$75 per man hour straight time and \$115 per man hour for OT plus subsistence expenses.
Additionally, this quote is based upon a remodel in an existing space and/or new building - completely finished with a Certificate of Occupancy. Any project where the General Contractor is still on the job is subject to additional charges.

We appreciate this opportunity to provide this quote. Our goal is to substantially improve working conditions for your valuable staff. We look forward to meeting with you to review this proposal in detail. In the meantime please don't hesitate to call us with any questions.

Xybix Systems, Inc.
8207 SouthPark Circle
Littleton CO 80120
Phone: 303-683-5656
Fax: 303-683-5454
taylorn



Quote Number: 28682

Quote Date: 4/19/2021
Revision: A
Orig Create Date: 4/19/2021
Expires: 7/18/2021
Opp #: 0024555

Quote

Terms: 50% DEP;40% INSTALL;10% PUNCH

Page: 1 of 2

QUOTE TO: Acct: HARVTPWHVT Hartford VT Police 812 VA Cutoff Road White River Junction VT 05001 Phone: Email:	SHIP TO: Hartford VT Police 812 VA Cutoff Road White River Junction,, VT 05001 USA Salesperson: SUSANNE LOTTIE Phone: (207) 343-1229 Email: susannel@xybix.com
---	--

Standard 2021 Price List
* Raised Floor
* NO removal of existing--Install new carpet over existing tile under workstations. Leaving tile in kitchen area
* New Carpet & Cove Base Installed
* Apply new Pressure Sensitive Releasable Glue

(04.16.2021): Carpet Quote for Opp 0024555: (WORKSTATION Opp 0024374)~TAN

***Quote is to install new carpet in the dispatch area and adjoining supervisor's private office only. All items that may need to be moved to install new carpet that are not part of the Xybix order will need to be moved by the customer. ***

Carpet MUST be installed with workstation installation or additional charges may apply. ***

Line	Part Num	Desc	Qty	U/M	List Ea.	Disc. %	Disc. Price	Net Price
1.00	16407	Carpet Tiles: Wigglesworth, 24x24 (48 sq ft box) Total SF 504.75	1	12.00 BX	\$306.00	0.00 %	\$306.00	\$3,672.00
2.00	16416	Carpet Tile Conductive Release Adhesive - 4 Gallons	9	1.00 EA	\$459.00	0.00 %	\$459.00	\$459.00
3.00	16389	4" Vinyl Cove Base w/ Toe, Black	3	144.00 FT	\$3.00	0.00 %	\$3.00	\$432.00
4.00	16390	Vinyl Base Cove Adhesive	4	3.00 EA	\$16.00	0.00 %	\$16.00	\$48.00
5.01	16419	Copper Ground Strip, Carpet tiles installed on Concrete	10	1.00 EA	\$14.00	0.00 %	\$14.00	\$14.00
6.00	16388	Floor Transition Carpet to Resilient, Black, 12'	6	1.00 EA	\$45.00	0.00 %	\$45.00	\$45.00
99.00	Other	Other Charges & Services	7	1.00 EA	\$0.00	0.00 %	\$0.00	\$0.00

Line (7) - Miscellaneous Charge -

Description	Ext. Price
1.) Install Carpeting Only	2,019.00
2.) Removal of VCT	675.00

List Price Total:	\$4,670.00	Lines Total:	\$4,670.00
		Line Miscellaneous Charges Total:	\$2,694.00
		Taxes Total:	\$0.00
		Quote Total:	\$7,364.00

Xybix Systems, Inc.
8207 SouthPark Circle
Littleton CO 80120
Phone: 303-683-5656
Fax: 303-683-5454
taylorn



Quote

Quote Number: 28682

Quote Date: 4/19/2021
Revision: A
Orig Create Date: 4/19/2021
Expires: 7/18/2021
Opp #: 0024555

Terms: 50% DEP;40% INSTALL;10% PUNCH

Page: 2 of 2

Line	Part Num	Desc	Qty U/M	List Ea.	Disc. %	Disc. Price	Net Price
------	----------	------	---------	----------	---------	-------------	-----------

Note 1:
All quoted taxes are estimated. Any applicable taxes, fees, permits, etc. must be added to this quote.

Note 2:
Where installation is listed on quote it is based in non-union labor and on one trip for installation only. Client is responsible for coordination of Technicians and other Vendors/Contractors. Waiting time will be charged at the rate of \$75 per man hour straight time and \$115 per man hour for OT plus subsistence expenses.
Additionally, this quote is based upon a remodel in an existing space and/or new building - completely finished with a Certificate of Occupancy. Any project where the General Contractor is still on the job is subject to additional charges.

We appreciate this opportunity to provide this quote. Our goal is to substantially improve working conditions for your valuable staff. We look forward to meeting with you to review this proposal in detail. In the meantime please don't hesitate to call us with any questions.

stema Inc.

sustema FUNCTION
DESIGN
TECHNOLOGY
SYNERGY

QUOTATION

Valid for 30 days

Nº 24406

Date: 2021-06-09

YYYY-MM-DD

PRESENTED TO

Hartford Police Department
812 VA Cutoff Rd
White River Junction, Vermont 05001
802-295-9425
Email: ssmith@hartford-vt.org

DELIVERY ADDRESS:

Hartford Police Department
812 VA Cutoff Rd
White River Junction, Vermont 05001
802-295-9425
Email: ssmith@hartford-vt.org

Pages: 1 of 1

Federal EIN	Sales Representative	Contact	Delivery by	
98-1325940	Derek Dugas	Scott Smith		
Part N°	Description	Qty Ordered	Unit Price	Total
	3 X Transit Alpha console 78" x 78"			
C302A-7878006-00-00	Transit Alpha console 78" x 78", double surface, 6 actuators	3		
CUSTOM	CPU enclosures Under Console	6		
M2201584T6A1RA	Power bar rm, 6 outlets 90°, for under monitor shelf mounting	6		
M22015853T6B1	15A 6 Outlet Vertical Strip, 15 ft. cord - 36" Long	6		
964+0119+000	TSS Folding Arm II 450mm	15		
961+0119+000	TSS Column 845mm -Drill Thru Mount (MSRP \$149 USD)	9		
740+1209+004	Attenzia Task Light**-TSS Column mount(MSRP \$589) silver	6		
C273-DPFD-01-01	Linak modern control with memory and display	3		
CUSTOM	HPL CPU Storage for 2 Standard Size CPUS	6		
C340-72xx-00-xx	Urethane molded edging for 72" surface,	3		
C373-4500-00-001	Bump / Tape switch for console surface, 40 - 60 in	3		
C228-110F-00-P03	Fans for CPU storage locker - 110 CFM	6		
C390-0202-00-000	Transit Personal environment system , 2 fans, 2 heaters	3		
BE01820-M22-Z01U1-72	Power Monument	3		
CUSTOM	Console Wall	3		
	OPTIONS:			
	Annual Console Care Maintenance (\$1428.00)			
	Sliding Shelf (\$1400)			
INSTALL	Installation Fees	1.00		\$2,700.00
TRANS	Freight TBD	1.00		\$2,000.00
			Sub-total (US\$)	\$56,149.33
			State Tax	
W-8BEN-E (see attached)	50% on PO, 50% before delivery			
THE EXPRESS TERMS AND CONDITIONS ATTACHED HEREIN, SUPERSEDE AND CONTROL THE TERMS OF ANY PURCHASE ORDER ISSUED BY THE CUSTOMER AND ANY COURSE OF DEALING OR USAGE OF TRADE.			Total (US\$)	\$56,149.33

Quotation

rus sbassett
 Russ Bassett Corporation
 8189 Byron Road Whittier, CA 90606
 Tel: 800.350.2445 Fax: 562.698.8972
 www.rusbassett.com

PROJECT #: DC-32001-01 **Option:** 1
REVISION: A
PROJECT NAME: Hartford Police Department

QUOTE DATE: 6/9/2021	SALES EXECUTIVE: Emily Dervan
EXPIRATION DATE: 9/7/2021	ADDRESS: 8189 Byron Rd Whittier, CA 90606
CUSTOMER: Hartford Police Department	PHONE: (866) 719-2980
CONTACT: Scott Smith	EMAIL: edervan@rus sbassett.com
ADDRESS: 812 VA Cutoff Rd White River Jct., VT 05001	
PHONE: 802-295-9425	
EMAIL: ssmith@hartford-vt.org	

QTY	PART NUMBER	DESCRIPTION	PRICE	EXTENDED
AREA: 1			AREA 1 TOTAL: \$	42,378.05
3	DEF-WSC-3684-SSHD-W	Console, Corner Sit-Stand, Height-Depth Array, 36D x 84	\$ 5,377.35	\$ 16,132.05
3	DEF-PNL-FF-18	Panel, Fabric, 18L	\$ 214.50	\$ 643.50
3	DEF-PNL-FF-42	Panel, Fabric, 42L	\$ 302.50	\$ 907.50
6	DEF-PNL-FF-48	Panel, Fabric, 48L	\$ 324.50	\$ 1,947.00
3	DEF-RAD-18	Rear Access Door, 18L	\$ 79.75	\$ 239.25
3	DEF-RAD-42	Rear Access Door, 42L	\$ 170.50	\$ 511.50
6	DEF-RAD-48	Rear Access Door, 48L	\$ 181.50	\$ 1,089.00
3	DEF-TOP-REC-3618-W	Top, Rectangle, 36D x 18L	\$ 233.75	\$ 701.25
6	DEF-TPD-18	Under Surface Tech Pod, 18"W	\$ 214.50	\$ 1,287.00
6	DEF-CC-L45-FF	Corner Connector, L, 45 Deg, Fabric	\$ 165.00	\$ 990.00
2	DEF-EC-WSL-2042	End Cap, Console, 42H, LH	\$ 247.50	\$ 495.00
1	DEF-EC-WSR-2042	End Cap, Console, 42H, RH	\$ 247.50	\$ 247.50
2	DEF-PFT-3618-LD-N	Fixed Technology Ped, 36D x 18W, Left Door	\$ 495.00	\$ 990.00
1	DEF-PFT-3618-RD-N	Fixed Technology Ped, 36D x 18W, Right Door	\$ 495.00	\$ 495.00
2	DEF-SHF-2436-3H-OS	Lateral Shelving Cabinet, 24"D x 36"W x 42"H, 3 High Unit, Open Shelf	\$ 508.75	\$ 1,017.50
2	DEF-STG-TOP-2436-N-S	Storage Top, 24"D x 36"W	\$ 203.50	\$ 407.00
3	DEF-ACC-PWR-POLE-09	Power Pole, 9' Ceiling	\$ 143.00	\$ 429.00
2	DEF-ACC-SLAT-F-60	Fixed Slatwall, 60L	\$ 440.00	\$ 880.00
3	DEF-ACC-TRAY-0416	SFF PC Tray For Base Frame, 16" Long	\$ 41.25	\$ 123.75
3	DAC-PCS-FLX-A	Flex Personal Comfort System, Heat & Air, Array Console	\$ 1,196.25	\$ 3,588.75
3	DAC-SW-MICROPC	Slatwall Micro PC Mount	\$ 110.00	\$ 330.00
12	DAC-MM-11-SW-PM	Monitor Mount, 1-Over-1, Slatwall, Pole Mount	\$ 467.50	\$ 5,610.00
3	DAC-MM-11-SW-PM-EX	Monitor Mount, 1-Over-1, Slatwall, Pole Mount, Ext	\$ 522.50	\$ 1,567.50
6	WAC-DASH-IP2U	Dash Cartridge, 1 Power / 2 Power-only USB	\$ 165.00	\$ 990.00
3	WAC-DASH-TLGSNK	Dash Cartridge, Gooseneck Light	\$ 253.00	\$ 759.00



PRICE QUOTATION

Hartford Police Dept.

Project Name: Hartford Police Dept - ECC

Project Location: Hartford, Massachusetts, United States

Project Number: 18-0058 Phase 2 Revision 0

Issue Date: June 3, 2021

Sales Lead: Scott Angell

Project Manager: Raj Patel

Manufactured Product				
	Code	Unit Price	Qty	Extended Price
1a. Console 1	RSPNG-C	18,454.18	1	18,454.18
1b. Console 2	RSPNG-C	18,454.18	2	36,908.36
2a. RH Millwork Storage	MLW-C	4,507.01	1	4,507.01
2b. LH Millwork Storage	MLW-C	4,507.01	2	9,014.02
Sub-Total				68,883.57
Logistics				
Packaging				Included
Freight				7,965.34
Install				8,419.10
Sub-Total				16,384.44
Project Total (USD, All Sales Taxes Excluded)				85,268.01

Shipping INCO Terms: CIP to Hartford, Massachusetts, United States

Payment Terms:

30% due upon Sign Off, NET 30

70% due upon Shipment of Work, NET 30

Quote is NOT valid without the Evans Terms & Conditions document.

Quote validity period is 90 days for product and 30 days for transportation and install. See Evans Terms & Conditions document for more details.

Evans accepts all major credit cards subject to service fees.

P.O. #: _____ ☐ Accept Evans Terms and Conditions

Accepted by: _____ Date: _____

Evans Consoles Incorporated

1577 Spring Hill Road, Suite 110 | Vienna, VA | USA 22182

Sales: +1.855.284.1129 | Client Services/Parts: +1.877.628.6470 | Web: www.evansonline.com

Bill of Material

Project: Hartford Emergency Communications Center



Sold to

Company name: TOWN OF HARTFORD
Contact Person: Scott Smith
Contact Phone: 8022959425
Contact Fax:

Distributor

Company name: W.A. HENDRICKSON
Salesman: Scott Newkirk
Salesman Phone: 815450652
Salesman Fax: 7817245402

#	Qty	Part Number	Description	Sell	Ext. Sell
Main 01					
1	1	DAGR	GROMMETS - SET OF FIVE	\$22.50	\$22.50
2	2	HC6H153918L-N	MERCURY STANDARD HUB, 15"D x 39"W x 18"H, LEFT HAND, NO GROMMET	\$909.00	\$1,818.00
3	1	HC6H153918R-N	MERCURY STANDARD HUB, 15"D x 39"W x 18"H, RIGHT HAND, NO GROMMET	\$909.00	\$909.00
4	1	HC6H243918L-N	MERCURY STANDARD HUB, 24"D x 39"W x 18"H, LEFT HAND, NO GROMMET	\$994.50	\$994.50
5	2	HC6H243918R-N	MERCURY STANDARD HUB, 24"D x 39"W x 18"H, RIGHT HAND, NO GROMMET	\$994.50	\$1,989.00
6	3	HC6W3696T	MERCURY STANDARD WORKSURFACE, 36"D x 96" W, WITH CONTOUR EDGE, WITH TECHLINK	\$2,877.75	\$8,633.25
7	3	HG6TS96N	MERCURY TECH BRIDGE, SINGLE SIDED 12" D X 18"H, FOR A 96"W CONSOLE, NO GROMMET	\$549.00	\$1,647.00
8	6	HGA	MERCURY ARRAY	\$1,406.25	\$8,437.50
9	2	HGBS1518S-L	MERCURY BRIDGE SPACER, 15"D x 18"H SINGLE, LEFT HAND	\$40.50	\$81.00
10	1	HGBS1518S-R	MERCURY BRIDGE SPACER, 15"D x 18"H SINGLE, RIGHT HAND	\$40.50	\$40.50
11	1	HGBS2418S-L	MERCURY BRIDGE SPACER, 24"D x 18"H SINGLE, LEFT HAND	\$54.00	\$54.00
12	2	HGBS2418S-R	MERCURY BRIDGE SPACER, 24"D x 18"H SINGLE, RIGHT HAND	\$54.00	\$108.00
13	1	HGPSDOB244230L	MERCURY PERSONAL STACKER, DOOR OPEN BOX, 24"D x 42"W x 30"H, LEFT HAND	\$756.00	\$756.00
14	2	HGPSDOB244230R	MERCURY PERSONAL STACKER, DOOR OPEN BOX, 24"D x 42"W x 30"H, RIGHT HAND	\$756.00	\$1,512.00
15	3	HGSOCBKT42L	MERCURY OUTSIDE CORNER BRACKET, 42"H	\$22.50	\$67.50
16	3	HGSOCBKT42R	MERCURY OUTSIDE CORNER BRACKET, 42"H	\$22.50	\$67.50
17	6	HGSR3954FAC	MERCURY RETURN SCREEN, 39"W x 54"H, FABRIC AND 12" CLEAR ACRYLIC	\$567.00	\$3,402.00
18	3	HGSS9654FAC	MERCURY SPINE SCREEN, 96"W x 54"H, FABRIC AND 12" CLEAR ACRYLIC	\$1,138.50	\$3,415.50
19	1	HGTB244224L	MERCURY TECHNOLOGY BASE, 24"D x 42"W x 24"H, LEFT HAND	\$1,399.50	\$1,399.50
20	1	HGTB244224R	MERCURY TECHNOLOGY BASE, 24"D x 42"W x 24"H, RIGHT HAND	\$1,228.50	\$1,228.50
21	1	HGTB244224R	MERCURY TECHNOLOGY BASE, 24"D x 42"W x 24"H, RIGHT HAND	\$1,399.50	\$1,399.50
22	3	HHC1518	MERCURY HUB COVER, 15"D x 18"H	\$27.00	\$81.00
23	3	TXSTECHAUDIO25	TECH LINK, STEREO AUDIO JACK, (3.5mm CONNECTOR SIZE) - Black, 25Ft	\$18.00	\$54.00
24	3	TXSTECHDATA25	TECHLINK, DATA JACK (CAT6), RJ45, PASS THROUGH PANEL MOUNT - Black, 25 Ft	\$31.50	\$94.50
25	3	TXSTECHPH25	TECH LINK, PHONE JACK, (RJ11 / RJ12) - Black, 25Ft	\$13.50	\$40.50
26	3	TXSTECHUSB-CHG	TECH LINK, USB CHARGER INSERT	\$72.00	\$216.00
27	12	TXSTECHUSB15	TECH LINK, USB INSERT (TYPE A), FEMALE / FEMALE WALL PLATE COUPLER - Black, 15Ft	\$22.50	\$270.00
28	1	WAKEY-STD	MASTER KEY, STANDARD LOCK (082000)	\$0.00	\$0.00
Total Main 01					\$38,738.25

Subtotal Product	\$38,738.25
INSTALL-WAT (Includes Tear Down & Removal of Existing Consoles)	\$8,864.00
Freight	\$6,000.00
Grand Total	\$53,602.25



AGENDA MEMORANDUM
June 29, 2021
Town Selectboard Meeting Item:
Submitted by: Joe Turner, Assessor

Subject: 2021 Grand List Presentation

Background: The final Grand List gets lodged every year in June. The Grand List has been finalized for 2021 and will be presented for discussion. The overall value is a key influence in setting the municipal tax rate for fiscal year 2022.

Discussion: Value changes per property categories will be presented. There were also fourteen total property grievances for 2021 which have all gone through the initial grievance period.

Financial Impact: The finalized Grand List has a direct impact on the applied municipal tax rates which affects all property owners in the Town of Hartford.

Overall Listed Value by Category

2021 Listed Value

\$1,417,195,300

2020 Listed Value

\$1,406,942,100

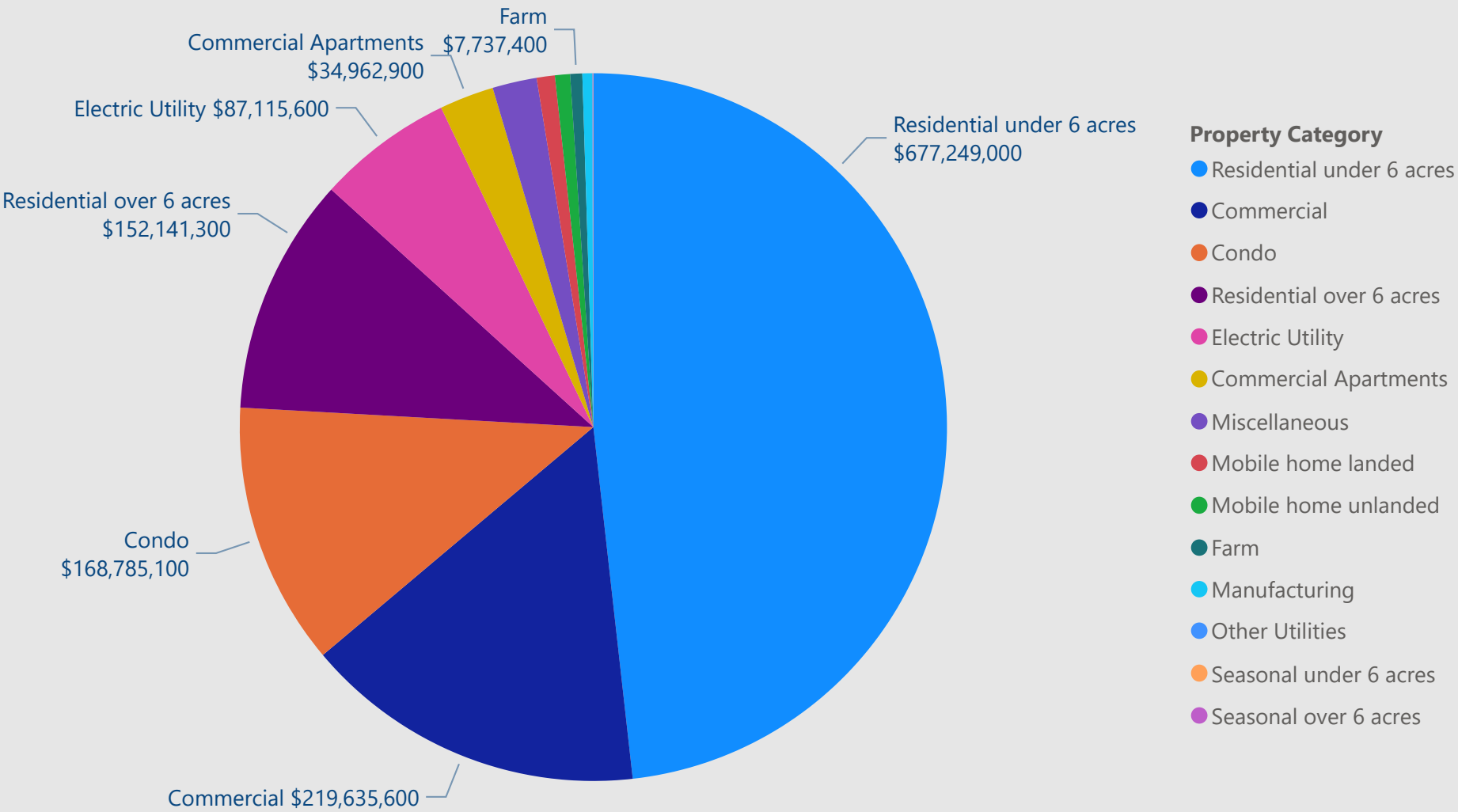
Value Difference

\$10,253,200

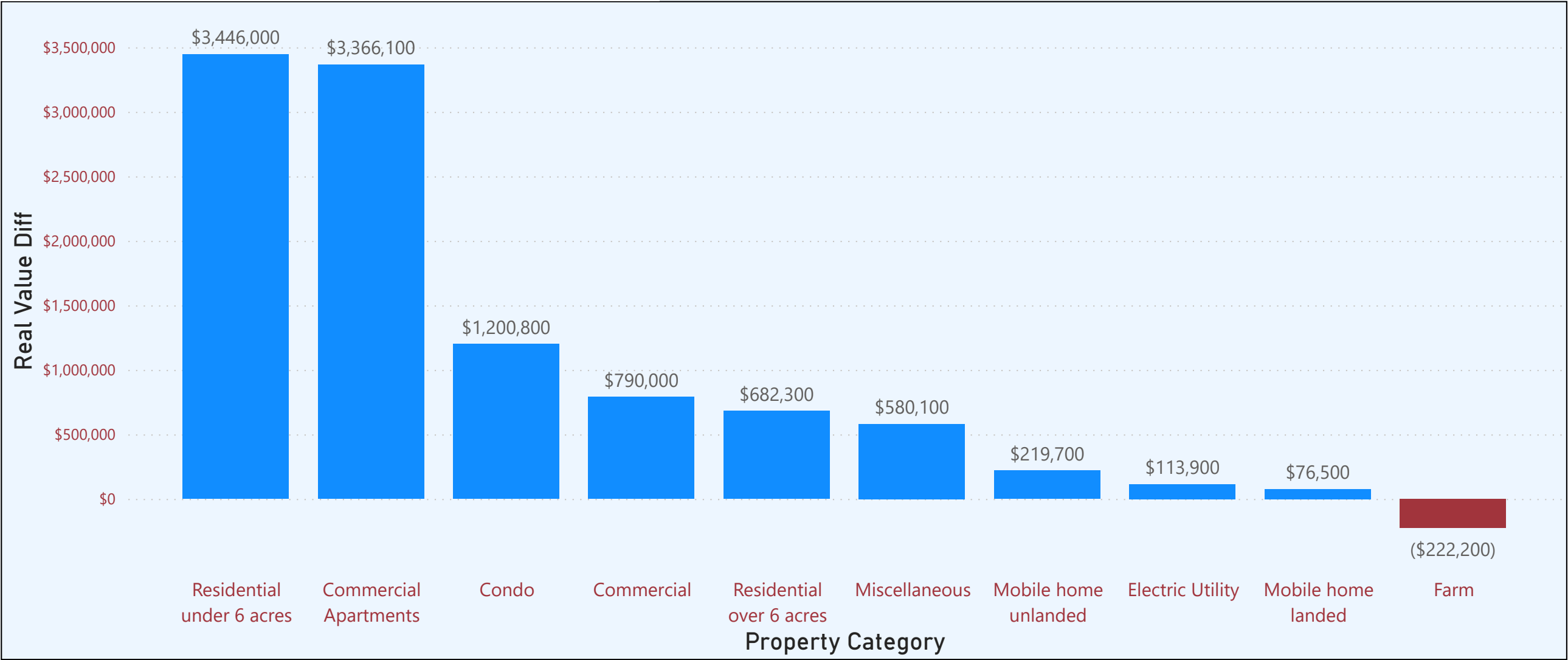
*The 2021 Listed Value is as of June 24, 2021. This value could change slightly due to grievances.

5520

Parcel Count



Total Value Difference 2020 to 2021 by Category



\$10,253,200
Overall Value Difference



AGENDA MEMORANDUM

June 29, 2021

Town Selectboard Meeting Item: 5d

Submitted by: Hannah Tyler, Director of Public Works

- Subject:** **Sludge Hauling & Grease Removal, Staff Recommendation (RFP 2021-03)**
- Background:** The Town seeks sludge hauling from the Quechee Wastewater Department to the White River Wastewater Plant two times per month at an average of 24,000/gallons each day of hauling or 48,000 gallons per month. There may be 3 months out of the year that an additional hauling of 24,000 gallons is necessary. The total estimated yearly hauling of sludge is estimated as follows: 8 months x 48,000 gallons + 3 months x 72,000 gallons = 600,000 gallons per year. The selected contractor will load the sludge with their equipment and deliver it to the sludge holding tank at the White River Wastewater Plant.
- The town also seeks grease removal at the main Quechee pump station once a month. The pump station is located near the Quechee Covered Bridge.
- Discussion:** The Town received bids from Sterns Septic Service of Grantham, NH and Wind River Environmental of Montpelier, VT.
- Impact:** The total cost proposal from Sterns Septic Service was \$46,320 and the total cost proposal from Wind River Environmental was \$75,300.
- Recommendation:** That the Selectboard authorize the Town Manager to sign and enter into a contract with Sterns Septic Service for sludge hauling and grease removal.



AGENDA MEMORANDUM

June 29, 2021

Town Selectboard Meeting Item: 5e

Submitted by: Hannah Tyler, Director of Public Work

- Subject:** **Wastewater Collection Line Cleaning, TV Inspection, and Inspection Reporting, Staff Recommendation (RFP 2021-02)**
- Background:** The Town sought wastewater line cleaning, TV inspection, and inspection reporting for identified wastewater collection lines.
- Discussion:** The town received unit bid pricing from N.A. Manosh, Inc. of Morrisville, Vermont. N.A. Manosh performed the services for the Town of Hartford last year with a base cost of \$32,500. The current proposal is a 7% increase reflecting the impacts of inflationary pressures and supply chain issues due to Covid-19. The sewer division has have positive experiences working with N.A. Manosh, Inc. in the past.
- Impact:** The total cost proposal from N.A. Manosh, Inc. services is \$12,925 for the White River Junction system and \$21,825 for the Quechee system.
- Recommendation:** That the Selectboard authorize the Town Manager to sign and enter into a contract with N.A. Manosh Inc for wastewater line cleaning, TV inspection, and inspection reporting for identified wastewater collection lines.



AGENDA MEMORANDUM

June 29, 2021

Town Selectboard Meeting Item: 5f

Submitted by: Jeremy Delisle, Assistant Director of Public Works

Subject: 2022 Dump Truck Bid Award

Background: The Town issued an RFP seeking bids for two trucks, one 6-wheeler and one 10-wheeler, to be used within the Highway Department. The RFP includes requests for the cost of two trucks with consideration of trade value of the current 6-wheeler and 10-wheeler owned by the Town of Hartford. While the Town previously purchase these vehicles, due to budget constraints and Board budget guidance for FY22, a five year lease is more cost effective at this time.

Discussion: The Town received bid forms from ATG Patriot LLC of Westminster, VT, Reed Truck Services of Claremont, NH, and Clark's Truck Center of Jericho, VT.

The bid from ATG Patriot LLC did not meet all of the requests put forth in the RFP, but provided a bid of \$173,807 for a new 6-wheeler, and \$199,566 for a new 10-wheeler. Additionally, ATG Patriot provided a combined trade value for the current vehicles of \$83,000.

The bid from Clark's Truck Center did not meet all of the requests put forth in the RFP, but provided a bid of \$172,64 for a new 6-wheeler, and \$213,092 for a new 10-wheeler. Clark's Truck Center provided a combined trade value for the current vehicles of \$70,000.

The bid from Reed Truck Services provided a bid of \$174,850 for a 6 wheeler, and \$215,950 for a 10 wheeler. Reed Truck Services provided a combined trade value for the current vehicles of \$60,500.

Reed Truck Services was the only vendor to meet specifications for both vehicles requested in the RFP. The additional costs to provide those specifications from the other bidders would increase the costs above those provided by Reed Truck Service.

Fiscal Impact: A five year lease of both vehicles at current interest rates is anticipated to be \$71,500 per year for five years.

Recommendation:

That the Selectboard authorize the Town Manager to sign and enter into a 5-year lease for a 6-wheel and a 10-wheel dump truck as outlined in the RFP from Reed Truck Services.



AGENDA MEMORANDUM
June 29, 2021
Town Selectboard Meeting Item: 5g

Submitted By: Tracy Yarlott-Davis, Town Manager

Subject: Invoice Cloud Fees

Background: On April 15, 2020, in response to the Covid-19 pandemic, the Town began absorbing the fees for residents paying water and sewer bills online. Normally, there is a 2.95% fee for using a credit card to make a payment via our vendor Invoice Cloud. Residents were still able to mail in a check or make an appointment to pay their bills in person at Town Hall.

Discussion:

To date, we have absorbed nearly \$170,000 in invoice cloud fees. As this was not an anticipated expense, we will be performing a budget adjustment, using costs savings in other departments that we have identified over the course of both fiscal year 2020 and 2021.

On June 14, 2021 Governor Phil Scott announced that Vermont has reached its goal of 80 percent vaccinated. In response, he rescinded all state Covid-19 restrictions and would let the State of Emergency expire. On June 21, 2021 Town Hall fulling reopened to the public after fifteen months of limited, appointment only, access. With these reopening, residents can now stop by to pay bills at their convenience between 8:00 am and 5:00pm, mail in a check, or use the Invoice Cloud system and pay the 2.95% fee themselves.

Financial Impact:

There was no budget allocation for paying these fees in FY20 or FY21. There is no allocation for these fees for FY22. If the Board would like to continue to pay these fees, staff will need to reallocate from planned expenditures to this unplanned expense.

Proposed Motion:

The Board authorizes the Town Manager to cancel the Town's payment of online fees from Invoice Cloud.



AGENDA MEMORANDUM
June 29, 2021
Town Selectboard Meeting Item: 5h

Submitted By: Tracy Yarlott-Davis, Town Manager

Subject: Sunset of Ad Hoc Committee on Coronavirus Response

Background: On March 24, 2020, the Selectboard created the Ad Hoc Committee on Coronavirus Response. The committee was charged with developing a broad list of strategies for slowing the spread of Covid-19, to recommend strategies to preserve the economy, support medical professionals, food supplies and communications. The Committee took immediate action to communicate with out-of-state homeowners, collect and distribute masks, begin a communications campaign. Committee members continued to work tirelessly throughout 2020 and into 2021 to identify areas of need and bridge gaps in food security, communications and economic stimulus opportunities.

Discussion: On June 14, 2021 Governor Phil Scott announced that Vermont has reached its goal of 80 percent vaccinated. In response, he rescinded all state Covid-19 restrictions and would let the State of Emergency expire. In response to this, the committee shall be released from their charge and duties. The Town Manager and the Board Chair discussed this with the Committee Chair prior to this meeting, thanking them for their service to the Town and their part in Hartford's overall success in combatting the pandemic.

Financial Impact: None

Proposed Motion: The Board thanks the committee for their work and will now close it to further business.



AGENDA MEMORANDUM

June 29, 2021

Town Selectboard Item:

Submitted by: Gail Ostrout, Finance Director

Subject: The Town of Hartford VT is requesting that Mascoma Bank extend the Line of Credit Loan# ending in ***802 in the amount of \$9.2 Million that is maturing on July 28, 2021 to a new maturity date of March 28, 2022, due to the ongoing construction needs of the Town

Background: The Town has commenced, or will commence within the next 12 months, construction on several critical infrastructure projects in 2021, including: the Sykes Mountain Ave/Rt. 5 Roundabouts; the Upper Sykes Mountain Ave. bike/pedestrian project; and the Quechee Main St. Culvert replacement.

While these projects are funded by sources other than the Town General Fund, the Town is responsible for the initial payment of construction bills and then will seek reimbursement from the ultimate funding source, such as the Vermont Agency of Transportation, or State Revolving Loan Fund.

On July 28, 2020 the Selectboard authorized a line of credit (LOC) with Mascoma Bank for \$9.2 million at a tax exempt rate of 2.8% for 12 months under 24 VSA§ 1773(c).

Discussion: The current \$9.2 million construction line of credit is set to mature on July 28, 2021 and currently has a zero balance due on it.

The cumulative short-term borrowing need totals \$9.2 million for this new LOC. The tax-exempt rate is 2.8% for this note. Although the cumulative total that the Town can borrow over the next 8 months is \$9.2 million, the Town will only pay interest expense for the days that the funds are withdrawn before being reimbursed by the State or other funding sources. The new maturity date would be in 8 months on March 28, 2022. At that maturity date we will need to revisit continued funding of our construction / infrastructure projects.

Financial Impact:

The actual financing costs will depend on the amounts borrowed and the speed of reimbursements.

Recommendation:

The Town of Hartford VT Selectboard approves the request to Mascoma Bank to extend Line of Credit Loan# ending in ***802 in the amount of \$9.2 Million that is maturing on July 28, 2021 to a new maturity date of March 28, 2022, due to the ongoing construction needs of the Town.

The Town of Hartford VT Selectboard hereby gives Town Treasurer John Clerkin authority to execute all loan documents related to the extension of the Line of Credit Loan# ending in ***802 in the amount of \$9.2 Million that is maturing on July 28, 2021 to a new maturity date of March 28, 2022 to that effect on behalf of the Town of Hartford VT.

Gail Ostrout

Finance Director



AGENDA MEMORANDUM
June 29, 2021
Town Selectboard Meeting Item: 5j

Submitted By: Tracy Yarlott-Davis, Town Manager

Subject: Closure of Currier Street for First Fridays

Background:

First Friday takes place in downtown White River Junction on the first Friday of the month during the summer. The remaining First Friday dates are: July 2, August 6, and September 3. First Fridays feature live music, art, food, and vendors.

Discussion:

Event organizers have requested that they be allowed to close Currier Street for the remainder of the First Friday events. Town Staff have approved their application. Public Works has agreed to pick up and drop off plastic barriers for event organizers. Staff provided feedback to the organizers to ensure that residents and visitors to the area know when the street will be closing and reopening.

Financial Impact:

None. The Town already owns the barriers and has the capacity to loan them to the organizers. Staff will perform the dropping off and picking up during regular work hours.

Recommendation:

The Board to approve the street closure of Currier Street in conjunction with the remaining 2021 First Friday dates.

Attachments:

Application for street closure.

TOWN OF HARTFORD
Vermont

Street Closure Permit Application for Special Events

GUIDELINES AND REQUIREMENTS

BACKGROUND

Town streets are public ways intended primarily for public travel. Except for emergencies and construction work, the closing of Town streets requires the approval of the Selectboard of the Town. Since the Selectboard meets regularly only twice per month, a request to close a street or streets for any reason should be made as far in advance as possible but no less than 60 days in advance of the event. Reasons why the Selectboard might consider closing a street to vehicular traffic for a limited time include parades, fairs /festivals, walking or running events or other community or neighborhood events such as downtown events and block parties.

GENERAL

- Applications to close streets are considered on a first come, first serve basis
- Applications must be received at least 60 days before the desired street closing
- There is no fee for the application but sponsors of street closing events may be required to pay various town costs incurred by the Town to support the event.

Submit attached **Street Closure Permit Application Form** completed and supplemental (if applicable) paperwork to: Town of Hartford Fire Department - 812 VA Cutoff Rd. - White River Jct., VT 05001. For additional information or questions, call the Hartford Fire Department, at 802-295-3232, Monday through Friday between 8:00am - 4:00pm.

General Street Closing Event Requirements

There must be an Event Sponsor who signs this application and provides the required proof of insurance. This Event Sponsor will be the person who the Town will contact and hold responsible for all matters concerning the event. The Event Sponsor is responsible for promoting good safety practices and enforcing these Guidelines and Requirements including:

Sketched Site Plan

- A sketched site plan must be submitted with the application. The site plan will show the locations and names of the proposed closed street and all intersecting streets and alleys. Making of a map utilizing online maps (Google, Bing, Yahoo, etc.) or similar is acceptable. Any deviation from the approved site plan may result in the permit being revoked or denial of future such events.

Traffic Control

- Temporary traffic control devices (Type III barricades and saw horses) at both ends of the street or at the open end of a cul-de-sac or at other locations as determined by the Town will be provided by the Town but billed to the Event Sponsor or may (as determined by the Town) be contracted by the Event Sponsor to a private barricade company which will erect the barricades in accordance with Town standard and requirements.
- Persons or property shall not be on the street prior to the placement of the barricades.
- Barricades will remain in place for the duration of the event.
- Barricades may not be relocated to the curb until the street is clear from debris and obstructions.
- Do not hang banners, signs, decorations, etc., on barricades.
- Vehicles will not be parked on either side of the barricades or along the closed street.
- Vehicles may not be used as barricades.
- Objects (tables, chairs, canopies, grills, etc.) may be moved onto a street when/where parking is normally permitted along the street. All objects must be kept within the designated parking areas. Where streets normally do not permit any parking, all objects must be kept off the street and behind the curb. This is to allow adequate access along the main drive lanes of the road for emergency vehicles if needed.
- Ensure that at least three (3) feet clearance from obstructions is provided around all fire hydrants.
- All sidewalks along the closed street will be kept open and clear of obstructions.
- Any generators must be kept away and out of the general movement of the residents and 25-feet away from any LPG tank.
- If there is a neighborhood emergency, residents must relocate barriers at all intersections (except alleys) in anticipation of emergency responders.

Additionally, selected residents will wait for emergency responders' arrival and direct them to the location of the emergency.

Cooking Safety

When the use of grills is anticipated for cooking food at a public event, the following requirements must be adhered to:

- Cooking appliances utilizing *solid fuels* will be provided with at least one (1) 2.5-gallon pressurized water fire extinguisher for each appliance. Acceptable alternatives to this include providing a garden hose(s) able to reach all cooking appliances or adequate buckets of water on hand to extinguish a grill fire.
- Cooking appliances utilizing *gas (LPG)* or any cooking with oils (turkey fryer, etc.) will be provided with at least one (1) Class ABC extinguisher having a rating of 2A:10BC for each appliance. Most homes will have at least one of these extinguishers. ***DO NOT USE WATER ON GREASE FIRES!***
- LPG cylinders up to and including 20 pounds in size may be used. Cooking appliances utilizing larger cylinders may require additional permits.
- Ash/coals from solid fuels will be completely extinguished and hand checked for coolness prior to disposal in a metal container with lid.
- Anyone using grease/oil to cook will take appropriate and adequate safety precautions to ensure adequate distance from the oil and other residents is provided to prevent injury and/or accident.

Block Party Neighbor Notification and Agreement

In the case of a street closing for a block party, evidence will have to be submitted that all residents within that block support the street being closed for the block party. Posting signs a day or two before the party to remind everyone that the street will be closed is a good idea.

Inspection

A pre-inspection of the street closure event set up will be completed by the fire department. The fire department will contact the event Representative indicated on the application and an inspection will be scheduled. The fire department will arrive at the scheduled time and check to ensure the access on the street is acceptable, barricades are installed and other items are set up properly. Once the fire department has inspected the event, the fire department will sign off that the set up requirements have been properly met. The street closure Permit must be on-site and readily available during the event and must be presented upon request to any Public Safety Officer. Again, the permit may be revoked at the discretion of any Town of Hartford Public Safety Officer.

Proof of Insurance

Prior to granting a permit for the closure of a street for an event, the Town requires proof of liability insurance to protect the Town in the event that someone is hurt or injured during or a result of the event. Proof of insurance satisfactory to the Town of Hartford

naming as a “named insured” must be on file with the Fire Department before the event will be accepted.

Public Assemblies Permit

The Town of Hartford requires a Public Assemblies permit for the Use and Occupancy of Public Property where 2,000 or more people are expected to attend. The application for a Public Assembly Permit is attached if you feel the street closing event you are requesting will attract that type of attendance.

Park Use Permit

The Town of Hartford requires a Park Use Permit for any group, business or organization wishing to have an event, function or group activity in the Town of Hartford Park system.

Other Permits

Events that include (but are not limited to) alcohol, fireworks, and open fires may require additional permits issued by the Town. We can work with you to determine if additional permits are required.

After The Event

The Event Sponsor is responsible for seeing to the cleaning up and restoring the public street or right-of-way after the event. This shall be done prior to the removal of barricades and the street is reopened. The end time indicated on the permit is the time the street is to be reopened -- not the time the event ends. Failure to clean up after any event (within 24 hours of the end of the event) may result in denial of future event permits.

Town of Hartford – Fire Department
Street Closure Permit Application Form
Please return this application to the following address:
Hartford Fire Department 812 VA Cutoff Rd., White River Jct., VT 05001

16JUN21

JAKOB BREITBACH

Name of Event Sponsor

Date

130 LOCUST ST. WILDER05088(206) 427-1032

Street Address

City

Zip Code

Phone

Currier St between Gates St and North Main St

Street(s) to be closed (including intersecting streets/boundaries of the closure)

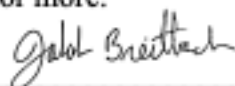
July 2,
Aug 6,
Sep 3

Date of Event:

Start Time: 4:30PM AM/PMEnd Time: 10:00 PM AM/PM

Applicant: I certify that I am a resident of the Town of Hartford and that I am at least 21 years of age. In addition, I certify that the information submitted for this application is true and accurate.

I understand that I must comply with all provision in accordance with the Street Closure Event Guidelines and Requirements granted by the Town of Hartford Fire Department. Failure to comply with the requirements itemized herein may lead to revocation of the permit. This permit may be revoked at the discretion of any Public Safety officer. I understand that I am also required to comply with the Park Use Permit if Town parks are used in conjunction with a Street Closure Permit and a Public Assembly Permit if expected attendance is 2000 or more.



Signature of Event Sponsor (Applicant)

June 18, 2021

Date:

JAKOB BREITBACH(206) 427-1032jakobbreitbach@gmail.com

Printed Name

Phone#

Email

Provide the following along with this application if applicable:

- ☐ Public Assembly Permit if 2,000 or more people are likely to attend
- ☐ Proof of Insurance
- ☐ Copy of signed contract from a local barricade company
- ☐ Site plan showing location of event, street names both of those to be closed and adjacent streets and barricade locations.

OFFICE USE ONLY

Date of Inspection

Inspector

Date Permit Issued

Expiration Date

TOWN OF HARTFORD
Vermont

STREET CLOSURE PERMIT

APPROVAL HAVING BEEN GIVEN ON _____ BY THE HARTFORD
SELECTBOARD TO CLOSE A CERTAIN PORTION OR ALL OF A STREET OR
STREETS AS INDICATED IN THE APPLICATION ATTACHED HERETO AND
MADE A PART HEREOF, THIS PERMIT IS HEREBY ISSUED TO

THE EVENT SPONSOR WHO SIGNED THE APPLICATION FOR THIS PERMIT.
PERMITTEE UNDERSTANDS THAT THIS PERMIT MAY BE REVOKED AT ANY
TIME IN THE DISCRETION OF A TOWN PUBLIC SAFETY OFFICER IF
PERMITTEE IS FOUND TO BE IN VIOLATION OF ANY OF THE REQUIREMENTS
LISTED IN THE PERMIT APPLICATION OR FOR OTHER SAFETY REASONS.

ISSUED THIS _____ DAY OF _____ 20__.

TOWN MANAGER



Public Assemblies Permit

Required for gatherings of 2,000 or more individuals in a public place which the general public is permitted or invited to attend

Please complete this form and return (no later than 30 days prior to the event) to:
Town of Hartford, 171 Bridge Street, White River Junction, VT 05001

Serving the Villages of Hartford•West Hartford•White River Junction•Wilder•Quechee

Website: www.hartford-vt.org

Telephone: (802) 295-9353 Fax: (802) 295-6382

Applicant/Organization: JAKOB BREITBACH

Name of Event: FIRST FRIDAYS

Date(s) of Event: JUL 3, AUG 6, SEP 3 Hours of Event: 4:30 - 10:00PM Estimated # of people 200

Location of Public Place where event will be held: CURRIER ST BETWEEN GATES AND N MAIN ST

Contact Person(s): CHRIS BILLIAU Phone #(s): 860-391-5659

Mailing Address: 130 LOCUST ST. WILDER, VT 05088

Detailed Description of Event

(To include: purpose, arrangements for parking, crowd control, traffic safety and such other measures as will maintain the security and safety of the persons involved in the assemblage and the general public.)

Separate Permits are required for: Fireworks Displays/ / Liquor Control Board Street Closings and Special Events.

Request the closure of Currier St between Gates and N Main St for the First Friday events in WRJ on July 3, Aug 6, and Sep 3.

Because the closure request is for one block of Currier any traffic going from South Main to North Main can easily use Church St.

Traffic safety will consist of traffic barriers and cones blocking the street on the Gates and North Main sides of Currier St.

Jakob Breitbach
Signature: Event Promoter

Signature: Landowner (if applicable)

June 18, 2021

Date

Signature: Landowner (if applicable)

Services Requested:

(Please check all that apply)

Please Describe Services Requested:

(Include outdoor amplification, temporary structures and blocking roads or streets)

Police ☐

Fire ☐

Public Works ☒ Traffic barriers placed on the Gates and N Main St entrances to Currier street at 430 and removal at 10pm

Recreation ☐

Zoning ☐



AGENDA MEMORANDUM

June 29, 2021

Town Selectboard Meeting Item: 5k

Submitted by: Tracy Yarlott-Davis, Town Manager

Subject: Recommendation for Approving Special Election Warning

Background:

On May 13, 2021, Rachel Edens resigned from the Selectboard due to medical reasons. The staff began the administrative process for the Selectboard to appoint a replacement. On May 20, 2021, Julia Dalphin resigned from the Selectboard due to workload constraints. The second resignation triggered the need for special election. On June 1, 2021, the Selectboard approved a recommendation to hold a special election on August 10, 2021.

Discussion:

Special elections, like regular elections, are primarily governed by State Statute. One of those requires that the Selectboard approved the special election warning, which is attached.

This timeline is for an August 10, 2021 special election:

Tuesday June 1, 2021	Selectboard approved date
Tuesday June 29, 2021	Selectboard approves Warning
Thursday July 1, 2021	First day to post Warning
Tuesday July 6, 2021 (moved forward one day due to holiday)	Candidate petitions due to Clerk by 5:00pm
Friday July 9, 2021	Voter checklist posted
Wednesday July 21, 2021	Ballot is available to public
Tuesday August 10, 2021	Day of Special Election 7:00am to 7:00 pm

Voters will be able to vote in person on August 10th at the Hartford High School Gymnasium from 7am-7pm; or, call the Clerk's office to request an Absentee/Early Ballot or, vote in person at the Clerk's office during normal business hours starting July 21st.

Proposed Recommendation:

I recommend that the Selectboard approved the language of the Warning of the Special Election and direct the Town Manger to notify the Town Clerk to prepare to post according to State Statue and the Town Charter.

Attachment: August 10, 2021 Special Election Warning

WARNING
TOWN OF HARTFORD SPECIAL TOWN MEETING
August 10, 2021

Voting by Australian ballot is to be held on **Tuesday, August 10, 2021**, at the Hartford High School Gymnasium.

The legal voters of the Town of Hartford are further notified that voter qualification, registration, and absentee voting relative to said Special Town Meeting shall be as provided in the Town Charter and chapters 43, 51, and 55 of title 17, Vermont Statutes Annotated.

THE FOLLOWING ARTICLE WILL BE VOTED BY AUSTRALIAN BALLOT ON TUESDAY, AUGUST 10, 2021. POLLS OPEN AT 7:00AM AND CLOSE AT 7:00PM.

1. To elect the following Town Officers: Selectboard Member for remainder of three year term ending March, 2023; Selectboard Member for remainder of two year term ending March, 2023.
(By Australian ballot)

Dated at Hartford, Vermont this 29th day of June, 2021.

SELECTBOARD MEMBERS OF THE TOWN OF HARTFORD

Dan Fraser, Selectboard Chair

Joe Major, Selectboard Vice-Chair

Kim Souza, Selectboard Clerk

Ally Tufenkjian, Selectboard Member

Dennis Brown, Selectboard Member

Lisa O'Neil, Town Clerk



**TOWN OF
HARTFORD
SELECTBOARD
MINUTES**

Tuesday, June 15, 2021, 6:00pm
Hartford Town Hall
171 Bridge Street, White River Junction, VT 05001

Present: Dan Fraser, Chair; Joe Major, Vice Chair; Kim Souza, Clerk; Dennis Brown, Ally Tufenkjian; Tracy Yarlott-Davis, Town Manager; Lana Livingston, Administrative Assistant; Hannah Tyler, Director of Publics Works; Jeremy Delisle, Public Works; Lannie Collins; Marianna Iskandar; Joyce Perkins.

Zoom participants: Veronica Golden – applicant for the West Hartford Library trustees; Kate Lamphere and Malaika Puffer from HCRS.

CATV LINK: <http://catv.cablecast.tv/CablecastPublicSite/show/14781?channel=1>

- I Call to Order of the Selectboard Meeting:** Selectboard Chair, Dan Fraser called the meeting to order at 6:00 PM.
- II Pledge of Allegiance:** The Pledge of Allegiance was led by Resident, Lannie Collins.
- III Order of Agenda:** NO changes to the order of Agenda.
- IV. Local Liquor Control Board:** Selectboard Chair, Dan Fraser recessed the Selectboard meeting and opened the Local Liquor Control Board at 6:02 PM.

NEW:

- a. Modern Country Store LLC at 3699 Woodstock Road, White River Junction, VT 05001 (Second Class)

Selectboard Member, Dennis Brown made the motion to approve a second-class liquor license to Modern Country Store LLC at 3699 Woodstock Road, White River Junction, VT 05001. Selectboard Member, Ally Tufenkjian seconded the motion. 3 were in favor, 1 recused (Souza) and 1 abstained (Fraser) . The motion passed.

Selectboard Chair, Dan Fraser closed the Local Liquor Control Board at 6:04 PM and reopened the Selectboard Meeting.

V. Selectboard

1. Public Comments:

Lannie Collins from Hartford asked about his earlier question if the Town Manager can make policies. Tracy Yarlott-Davis said that they have sent it to the lawyer and have not heard back from them yet. Mr. Collins would like to request, as a public record request, what was sent to the lawyer.

Joyce Perkins from Hartford asked if the Wellness Coordinator position and the Peer Coordinator are the same positions. The Town Manager said yes, they are.

Mike Morris from Hartford called to follow up on his email about the structure by the VFW. He said he was aware of a signed contract to remove the structure and would like to know the timeframe. Hannah Tyler, DPW, said hopefully within the next calendar month. Also, the reason for a contract to cleanup the Prospect St. property that is not Town owned was done for significant health and safety reasons. The Railroad was not able to respond in a timely matter. However, the State will reimburse the Town for the cost of the cleanup. We don't know how much it will cost yet.

2. Selectboard Comments and Announcements

Selectboard Vice-Chair, Joe Major announced that Allene Sweinckowski, Chair of HCoreI, will be moving to Michigan to be with family. She has been a great asset to the committee and her tireless commitment to the Town has not gone unnoticed. Allene plans to stay in contact and to be a resource to the committee as much as she can.

3. Appointments

- a. Consider the appointment of Veronica Golden to the West Hartford Library Trustees until the March 1, 2022 elections.

Selectboard Clerk, Kim Souza made the motion to appoint Veronica Golden to the West Hartford Library Trustees until the March 1, 2022 elections. Selectboard Vice Chair, Joe Major seconded the motion. All were in favor and the motion passed.

4. Town Manager's Report:

Significant Activity Report

<https://www.hartford-vt.org/ArchiveCenter/ViewFile/Item/213>

Town Manager Report

Town Hall Reopening

I write my reports on Wednesday and Thursday prior to our meeting. As of this writing, we are still under a state-wide State of Emergency. However, there are some indications that the Governor may rescind it any day. We will be looking at the guidance as it comes out so we can put procedures in place.

On Monday June 21st, after a long 15 months, Town Hall will reopen! We are asking that those who have not completed their vaccine series wear a face covering. Staff will be available during normal business hours. They are authorized to serve people with their windows closed so please respect that. This is both going back to normal and treading new water, so I hope we can all treat each other with respect and compassion.

Upper Valley Haven – Hunger Free America

I was honored to be invited to hear from the CEO of Hunger Free America as well as leaders from Hunger Free Vermont and New Hampshire Hunger Solution at the Upper Valley Haven on June 3rd. The focus was on ongoing community-based hunger relief programs in our region and new legislative efforts at the state and local level. It was a moving experience to learn that one in three people in Vermont experienced food insecurity in the past year. I was saddened to learn that it took 12 years after the Great Recession of 2008 for hunger rates to decline to their pre-recession level of one in ten Vermonters going hungry, which is still unacceptable. The Upper Valley Haven is working to advocate for the continuation of federal policies and funding for food security programs such as universal school, summer, and childcare food funding and increases to 3SquaresVT benefits.

Diversity, Equity, and Inclusion Seminars

We have contracted with Groundswell Change to provide a series of three seminars to the Selectboard and Department Directors. These will be interactive, participatory seminars that will each conclude with action items the group can pursue before meeting again. Brian Cook, the principal of Groundswell, lived in Quechee with his family for many years and has worked with some upper valley organizations including The Quechee Club. We are currently finalizing a calendar that takes the budget cycle and the special election into consideration.

Pool Update

Things are progressing at the pool. Much of the work is focused on the pipping which will move the water to and from the pump station, as well as provide pool deck draining. Many thanks to Scott Hausler, Nott's Excavating, and BreadLoaf.

Christian Street Cemetery

Town staff continue to work on the logistics and administration for taking over the operations of this cemetery on July 1, 2021. Right now, my office is partnering with the Town Clerk to develop procedures and forms for when someone calls needing burial services or to purchase a plot. We're also ensuring that we have the structure within the general ledger to correctly record revenue and expenditures.

5. Board Reports, Motions & Ordinances:

- a. HCRS Contract: Presented by Town Manager, Tracy Yarlott-Davis, HCRS representatives Kate Lamphere and Malaika Puffer.

Background: In 2020, the Town began the discussion about creating a staff position providing direct health and medical assistance to individuals. Initially the position was named Wellness Coordinator. Due to staffing changes and shortages, this position has remained budgeted for, but not filled for at least fiscal years 20 and 21.

Currently, the Town has a full time Social Worker, who is contracted from HCRS. This individual works with our first responders and community agencies to identify people with needs and help provide them with resources. The Town also has a

Health Officer who is a trusted member of the community and provides connections to resources and services.

The Peer Support Advocate would complement the staff resources we already have in place. Peer support is an approach to building relationships on a person-to-person level, not from a real or perceived place of authority. The nature and scope of the position includes connecting with a supporting individuals experiencing distress or crisis in the community, providing ongoing one-on-one support, helping community members access resources, advocating with people accessing supportive services, providing referrals and assisting people with related paperwork and administrative tasks, and outreaching to the community. This one year contract allows both Hartford and HCRS to provide these services and gather data on the services that this person provided to the community. The one year contract is for \$24,000.

Selectboard Vice Chair, Joe Major made the motion to authorize the Town Manager to enter into a contract with HCRS for peer support and advocacy Services from 7/1/2021 to 6/30/2022. Selectboard Member, Dennis Brown seconded the motion. All were in favor and the motion passed.

b. Election Warning wording

Selectboard Clerk, Kim Souza made the motion to approve the language of the Warning of the Special Election and direct the Town Manger to notify the Town Clerk to prepare to post according to State Statue and the Town Charter. Selectboard Member, Ally Tufenkjian seconded the motion. All were in favor and the motion passed.

Voting by Australian ballot is to be held on **Tuesday, August 10, 2021**, at the Hartford High School Gymnasium. The legal voters of the Town of Hartford are further notified that voter qualification, registration, and absentee voting relative to said Special Town Meeting shall be as provided in the Town Charter and chapters 43, 51, and 55 of title 17, Vermont Statutes Annotated.

THE FOLLOWING ARTICLE WILL BE VOTED BY AUSTRALIAN BALLOT ON TUESDAY, AUGUST 10, 2021. POLLS OPEN AT 7:00AM EST AND CLOSE AT 7:00PM EST.

1. To elect the following Town Officers: Selectboard Member for remainder of three year term ending March, 2023; Selectboard Member for remainder of two year term ending March, 2023. (By Australian ballot)

Dated at Hartford, Vermont this 15th day of June, 2021.

c. 2021 Street Paving and Reclamation RFP approval

Selectboard Vice Chair, Joe Major made the motion the proposal of Blaktop, Inc. be accepted to allow the services to occur a.s.a.p. Selectboard Ally Tufenkjian seconded the motion. All were in favor and the motion passed.

d. Aggregate and Winter Sand Bid Award

Selectboard Member, Dennis Brown made the motion to Authorize the purchase of aggregate materials from Twin State Sand and Gravel for the current fiscal year. In the event of any shortage of materials from Twin State Sand and Gravel, it is also the staff's recommendation that the Department of Public Works be authorized to purchase aggregate from Pike Industries on an "as needed" basis during the 2021-2022 fiscal year. Selectboard Vice Chair, Joe Major seconded the motion. All were in favor and the motion passed.

e. Calcium Chloride and Magnesium Chloride Bid Award

Selectboard Member, Ally Tufenkjian made the motion to Authorize the purchase of Magnesium Chloride from Innovative Municipal Products Inc. for the current fiscal year. Selectboard Member, Dennis Brown seconded the motion. All were in favor and the motion passed.

f. Results of 2021 ¾ Ton Pickup Truck Bids and Recommendation

Selectboard Clerk, Kim Souza made the motion that the purchase of the two trucks be awarded to Key Chevrolet of White River Junction with the optional sanders included. Selectboard Member, Dennis Brown seconded the motion. All were in favor and the motion passed.

g. On-Call Water People

Selectboard Member, Dennis Brown made the motion that the ratings be extended 1 year to allow the Department of Public Works to advance required and necessary projects. Selectboard Vice Chair, Joe Major seconded the motion. All were in favor and the motion passed.

h. Solid Waste: Hannah Tyler, Director of Public Works presented updated information to the Selectboard about the Solid Waste facility.

The solid waste market continues to evolve more rapidly, our costs for managing waste are increasing outside of our control, regulations are becoming more stringent, and the facility condition continues to decline without the ability to make significant capital investment. The Town can no longer continue to operate the facility at our current level of service without significant capital investments and ongoing fiscal support from the general fund.

Joe Major suggested the Ms. Tyler start the RFP process for the plan to hire a qualified solid waste person to assess and provide guidance for what the options are for the facility and the potential closing of the facility.

i. Strategic Equity and Inclusion Plan

Joe Major is working on the data collection portion of the Strategic Plan. There is no money in the budget to accomplish this. He is looking for ways on how to proceed.

VI Commission Meetings Reports

Joe Major reminded everyone on the Juneteenth Celebration this Saturday, the 19th from 3:30 – 5:30 Lyman Point Park. Everyone is welcome.

Dennis Brown reported from the Conservation Commission. They are having a work detail this Saturday beginning at 8:30 AM at the Hurricane Forest. All are welcome. The Zoning Commission approved one application and are working on another. The Hartford Preservation Commission and the Planning Commission had its first public session for the proposed demolition ordinance. There are some concerns about the potential increased costs for demolition.

Ally Tufenkjian reported from the Resilience Hartford Committee. They are meeting weekly to plan for the Hartford Food Forest project. They are now working with a design team.

VI Executive Session

1. **Selectboard Clerk, Kim Souza made the motion that In accordance with Vermont's Open Meeting Law requirements, I move that the Selectboard enter into Executive Session to discuss confidential attorney-client communications made for the purpose of providing professional legal services to the body; Title 313(a)(1)(F). Selectboard Member, Dennis Brown seconded the motion. All were in favor and the motion passed.**

Selectboard Clerk, Kim Souza made the motion to close the Executive Session at 9:00PM. Selectboard Vice Chair, Joe Major seconded the motion. All were in favor and the motion passed.

2. **Post Executive Session Motion:**

Selectboard Member, Ally Tufenkjian made the motion to authorize Selectboard Vice-Chair Joe Major to execute on behalf of the Town any and all necessary and incidental documents required in connection with the above-described Settlement Agreement and the General Release.

Selectboard Member, Dennis Brown seconded the motion. 4 were in favor and 1 recused (Major). The motion passed.

VI Consent Agenda

Selectboard Clerk, Kim Souza made the motion to accept the Consent Agenda. Selectboard Member, Dennis Brown seconded the motion. All were in favor and the motion passed.

Approve Payroll Ending: 6/12/2021

**Approve Meeting Minutes of:
6/1/2021**

Approve A/P Manifest of: 6/11/2021 & 6/15/2021

Selectboard Meeting Dates of:

Already Approved: 6/29/2021

Needs Approval: 7/6/2021, 7/13/2021 and 7/27/2021

IX Adjourn the Selectboard Meeting

Selectboard Member, Dennis Brown made the motion to adjourn the meeting. Selectboard Member, Ally Tufenkjian seconded the motion. All were in favor and the motion passed at 9:05PM.

All Meetings of the Hartford Selectboard are open to the public. Persons who are seeking action by the Selectboard are asked to submit their request and/or materials to the Selectboard Chair or Town Manager's office no later than noon on the Wednesday preceding the scheduled meeting date. Requests received after that date will be addressed at the discretion of the Chair. Citizens wishing to address the board should do so during the Citizen Comments period.

Kim Souza, Selectboard Clerk

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12:38PM

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Bank ID	Bank Name	Payee Name	Check Date	Check No.	
Vendor ID	Vendor Name				
Detail: Invoice No.	Invoice Description	Cross Fund	Invoice Amt	Disc. Amt	Net Amt.
25-0100	Capital Improvement Plan				
010987	COMPETITIVE COMPUTING, INC		6/25/2021		1010
SIN004370	SWITCH REPLACEMENT 2020	0.00	\$32,479.61	0.00	32,479.61
Desc: SWITCH REPLACEMENT 2020	Acct: 25-985-100-0100		Capital Improvemt Plan - Exp		
Desc: SWITCH REPLACEMENT 2020	Acct: 25-985-100-0100		Capital Improvemt Plan - Exp		
SIN004555	SWITCH RERESH LABOR 2021 PROJEI	0.00	\$1,567.50	0.00	1,567.50
Desc: SWITCH RERESH LABOR 2021 PROJECT	Acct: 25-985-100-0100		Capital Improvemt Plan - Exp		
SIN004849	SWITCH RERESH LABOR 2021 PROJEI	0.00	\$1,996.25	0.00	1,996.25
Desc: SWITCH RERESH LABOR 2021 PROJECT	Acct: 25-985-100-0100		Capital Improvemt Plan - Exp		
SIN004498	SWITCH RERESH LABOR 2021 PROJEI	0.00	\$82.50	0.00	82.50
Desc: SWITCH RERESH LABOR 2021 PROJECT	Acct: 25-985-100-0100		Capital Improvemt Plan - Exp		
SIN004850	MANAGED SERVICES 2021 - TM - PRO.	0.00	\$206.25	0.00	206.25
Desc: MANAGED SERVICES 2021 - TM - PROJ	Acct: 25-985-100-0100		Capital Improvemt Plan - Exp		
Vendor Total:			36,332.11	0.00	36,332.11
25-0100	Highway Infastructure	Bank Total:			36,332.11
25-0311	Highway Infastructure				
003755	B.U.R. CONSTRUCTION, LLC		6/25/2021		1040
2021-19 B	US RT 5 & SYKES MTN AVE 05.26.2021	1,584.86	\$1,584.86	0.00	1,584.86
Desc: 20% Town Match - Upper Sykes	Acct: 11-316-017-2011		SIDEWALKS - SYKES AVE		
003755	B.U.R. CONSTRUCTION, LLC		6/25/2021		1041
2021-20 B	US RT 5 & SYKES MTN AVE 06.09.21.	2,837.04	\$2,837.04	0.00	2,837.04
Desc: 20% Town Match - Upper Sykes	Acct: 11-316-017-2011		SIDEWALKS - SYKES AVE		
003755	B.U.R. CONSTRUCTION, LLC		6/25/2021		1042
2021-20 C	US RT 5 & SYKES MTN AVE 06.09.2021	6,761.35	\$6,761.35	0.00	6,761.35
Desc: US RT 5 & SYKES MTN AVE 06.09.2021	Acct: 11-316-019-2011		SIDEWALKS - SYKES ADDITIONAL		
Vendor Total:			11,183.25	0.00	11,183.25
25-0311	PARKS - REC RESTRICTED	Bank Total:			11,183.25
25-8055	PARKS - REC RESTRICTED				
035301	NORTHSTAR FIREWORKS CO		6/25/2021		1038
2021	FIREWORKS 07.04.2021	0.00	\$6,300.00	0.00	6,300.00
Desc: FIREWORKS 07.04.2021	Acct: 25-985-511-0006		P & R Restricted - Community Events		
Vendor Total:			6,300.00	0.00	6,300.00
25-8055	Non Interest	Bank Total:			6,300.00
70-0100	Non Interest				
046946	TWIN PINES HOUSING TRUST		6/25/2021		1004
WCH2VCDP	Wentworth 2 - VCDP Housing Implemen	0.00	\$247,200.00	0.00	247,200.00
Desc: Wentworth 2 - VCDP Housing Implemen	Acct: 70-623-318-7114		VCDP Wentworth 2 (07110-IG-2019-Har		
Vendor Total:			247,200.00	0.00	247,200.00
70-0100	GENERAL FUND - MASCOMA	Bank Total:			247,200.00
FUND 1 0	GENERAL FUND - MASCOMA				

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Bank ID	Bank Name	Payee Name	Check Date	Check No.	
Vendor ID	Vendor Name				
Detail: Invoice No.	Invoice Description	Cross Fund	Invoice Amt	Disc. Amt	Net Amt.
000100	DEPARTMENT OF THE TREASURY	UNITED STATES TREASURY	6/25/2021		73071
720 FORM 2021	Annual PCORI Fees	0.00	\$255.36	0.00	255.36
Desc:	Annual PCORI Fees	Acct: 10-811-225-0000	HRA expenses		
	Vendor Total:		255.36	0.00	255.36
001170	AIRGAS, INC.	AIRGAS USA, LLC	6/25/2021		73072
9979734181	OXYGEN - COVID	0.00	\$34.19	0.00	34.19
Desc:	OXYGEN - COVID	Acct: 10-221-417-0017	EXTRAORDINARY EXP - COVID-19		
	Vendor Total:		34.19	0.00	34.19
001303	ALDRICH + ELLIOTT, PC		6/25/2021		73073
18018.003,79918	S MAIN STR STEP III - MAY 2021	23,045.84	\$23,045.84	0.00	23,045.84
Desc:	S MAIN STR STEP III - MAY 2021	Acct: 50-954-543-0010	CAPITAL -PRE RF3-390-3.0		
Desc:	S MAIN STR STEP III - MAY 2021	Acct: 60-965-544-0010	CAPITAL OUTLAY - RF1-222-3.0		
Desc:	S MAIN STR STEP III - MAY 2021	Acct: 13-921-360-0100	S. Main St Infrastructure- Construction		
Desc:	S MAIN STR STEP III - MAY 2021	Acct: 50-954-543-0010	CAPITAL -PRE RF3-390-3.0		
Desc:	S MAIN STR STEP III - MAY 2021	Acct: 60-965-544-0010	CAPITAL OUTLAY - RF1-222-3.0		
Desc:	S MAIN STR STEP III - MAY 2021	Acct: 13-921-360-0100	S. Main St Infrastructure- Construction		
	Vendor Total:		23,045.84	0.00	23,045.84
001550	ALL STATES CONSTRUCTION, INC		6/25/2021		73074
1111315	4000 gallons Chloride for dust con	0.00	\$3,240.00	0.00	3,240.00
Desc:	4000 gallons Chloride for dust con	Acct: 10-311-323-0000	MATERIAL & SUPPLIES		
	Vendor Total:		3,240.00	0.00	3,240.00
001650	ALLEN ENGINEERING POOLS AND SPAS		6/25/2021		73075
111-521657-01	990 gals chlorine	1,443.00	\$1,443.00	0.00	1,443.00
Desc:	990 gals chlorine	Acct: 50-952-340-0000	CHEMICALS		
	Vendor Total:		1,443.00	0.00	1,443.00
002065	AMERICAN FAMILY LIFE ASSURANCE	AFLAC - AMERICAN FAMILY LIFE	6/25/2021		73076
JUN'21	AFLAC INS - JUNE 2021	0.00	\$1,506.36	0.00	1,506.36
Desc:	AFLAC INS - JUNE 2021	Acct: 10-012-300-0270	ACCRUED AD&D PAYABLE		
	Vendor Total:		1,506.36	0.00	1,506.36
002180	AMERICAN RETROWORKS INC	GOOD POINT RECYCLING	6/25/2021		73077
76169	JULY 2020 NON-CED MIXED	119.40	\$119.40	0.00	119.40
Desc:	JULY 2020 NON-CED MIXED	Acct: 30-971-318-0000	CONTRACTED SERVICES		
76194	AUGUST 2020 NON-CED MIXED	181.50	\$181.50	0.00	181.50
Desc:	AUGUST 2020 NON-CED MIXED	Acct: 30-971-318-0000	CONTRACTED SERVICES		
76487	MARCH/APRIL 2021 NON-CED MIXED	166.20	\$166.20	0.00	166.20
Desc:	MARCH/APRIL 2021 NON-CED MIXED	Acct: 30-971-318-0000	CONTRACTED SERVICES		
	Vendor Total:		467.10	0.00	467.10
002865	ASCUTNEY VOLUNTEER FIRE DEPARTMEN		6/25/2021		73078
5610-19	FOAM	0.00	\$1,050.00	0.00	1,050.00
Desc:	FOAM	Acct: 10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		

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Bank ID	Bank Name				
Vendor ID	Vendor Name	Payee Name		Check Date	Check No.
Detail: Invoice No.	Invoice Description	Cross Fund	Invoice Amt	Disc. Amt	Net Amt.
Vendor Total:			1,050.00	0.00	1,050.00
002965	ATCO INTERNATIONAL			6/25/2021	73079
I0579231	PRO-SAN	175.00	\$175.00	0.00	175.00
Desc: PRO-SAN		Acct: 60-961-323-0000	MATERIAL & SUPPLIES		
Vendor Total:			175.00	0.00	175.00
003450	AUTOZONE			6/25/2021	73080
5120674273	PARTS	0.00	\$24.43	0.00	24.43
Desc: ABS WHL SPD SNSR-PD10		Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
5120675426	RETURNED PARTS	0.00	\$-66.16	0.00	-66.16
Desc: RETURNED PARTS		Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
5120662678	PARTS	0.00	\$23.94	0.00	23.94
Desc: DURALAST C.O.P INS - PD5		Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
5120667440	PARTS	0.00	\$21.11	0.00	21.11
Desc: CONTINENTAL SERP - PD2		Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
5120668257	PARTS	0.00	\$9.20	0.00	9.20
Desc: PLENUM GASKET - PD5		Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
5120669395	PARTS	0.00	\$548.04	0.00	548.04
Desc: TRUCK & TOW PERFORM-PD-5		Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
5120672580	PARTS	0.00	\$156.22	0.00	156.22
Desc: WHEEL HUB ASSY-PD-10		Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
5120673094	PARTS	0.00	\$30.22	0.00	30.22
Desc: MOLTAN ULTSOR, CONTINENTAL SERP - P		Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
5120673451	PARTS	0.00	\$66.16	0.00	66.16
Desc: ABS SPEED SENSOR - PD10		Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
5120673452	PARTS	0.00	\$69.20	0.00	69.20
Desc: WHEEL NUT - PD10		Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
Vendor Total:			882.36	0.00	882.36
003580	ODYSSEY ADVISORS INC	ODYSSEY ADVISORS INC		6/25/2021	73081
6267	Actuarial - OPEB	0.00	\$2,900.00	0.00	2,900.00
Desc: Actuarial - OPEB		Acct: 10-171-318-0000	CONTRACTED SERVICES		
Vendor Total:			2,900.00	0.00	2,900.00
003755	B.U.R. CONSTRUCTION, LLC			6/25/2021	73082
2021-19 A	US RT 5 & SYKES MTN AVE 05.26.2021	68,533.45	\$68,533.45	0.00	68,533.45
Desc: Mascoma 05.26.2021		Acct: 70-622-319-7021	Upper Sykes Ped - Mascoma Match		
Desc: Toyota 05.26.2021		Acct: 70-623-319-7021	Upper Sykes Ped - Heritage Toyota Matr		
Desc: Sidewalk Portion 05.26.2021		Acct: 70-623-318-7021	CONTRACTED SERVICES(GRANT EHI		
Desc: Roundabout Portion 05.26.2021		Acct: 80-311-318-8001	CONTRACTED SERVICES(STP 0113(5		
003755	B.U.R. CONSTRUCTION, LLC			6/25/2021	73083
2021-20 A	US RT 5 & SYKES MTN AVE 06.09.2021	96,614.11	\$96,614.11	0.00	96,614.11
Desc: Roundabout Portion 06.09.2021		Acct: 80-311-318-8001	CONTRACTED SERVICES(STP 0113(5		
Desc: Mascoma Non-Participating Cost		Acct: 70-622-319-7021	Upper Sykes Ped - Mascoma Match		
Desc: Toyota Non-Participating Cost		Acct: 70-623-319-7021	Upper Sykes Ped - Heritage Toyota Matr		
Desc: Sidewalk Portion 06.09.2021		Acct: 70-623-318-7021	CONTRACTED SERVICES(GRANT EHI		

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Bank ID	Bank Name	Payee Name	Check Date	Check No.	
Vendor ID	Vendor Name				
Detail: Invoice No.	Invoice Description	Cross Fund	Invoice Amt	Disc. Amt	Net Amt.
Vendor Total:			165,147.56	0.00	165,147.56
004690	BEACON ATHLETICS, LLC		6/25/2021		73084
0332447	Protective cover for batter box	0.00	\$419.00	0.00	419.00
Desc:	Protective cover for batter box	Acct: 10-527-323-0000	MATERIAL & SUPPLIES		
Vendor Total:			419.00	0.00	419.00
004850	BEN'S UNIFORMS INC.		6/25/2021		73085
097602	UNIFORM PANTS-HOWELL	0.00	\$173.00	0.00	173.00
Desc:	UNIFORM PANTS-HOWELL	Acct: 10-211-326-0000	PURCHASE UNIFORMS & CLEANING		
Vendor Total:			173.00	0.00	173.00
005215	BRITTON'S LUMBER, HANCOCK BUILDING	BETHEL MILLS, INC	6/25/2021		73086
279632/5	MATERIALS	3.14	\$3.14	0.00	3.14
Desc:	MATERIALS	Acct: 65-963-323-0000	MATERIALS & SUPPLIES		
Vendor Total:			3.14	0.00	3.14
005800	BLAKTOP INC.		6/25/2021		73087
28730	ASPHALT	455.00	\$723.67	0.00	723.67
Desc:	Water cuts	Acct: 50-954-321-0200	REPAIRS & MAINT-MAINS & APPUR		
Desc:	Pot holes	Acct: 10-311-323-0000	MATERIAL & SUPPLIES		
Vendor Total:			723.67	0.00	723.67
006100	BMO FINANCIAL GROUP		6/25/2021		73088
Vail 05/16-27/21	Vail, Brad - PD	0.00	\$27.36	0.00	27.36
Desc:	HomeDepot-Range Materials	Acct: 10-211-315-0000	RECRUITMENT & TRAINING		
Vail 05/28-31/21	Vail, Brad - PD	0.00	\$663.25	0.00	663.25
Desc:	Enterprise-Rental Detectives	Acct: 10-211-331-0000	DEPARTMENT EQUIPMENT		
Desc:	USPS-Postage	Acct: 10-211-322-0000	POSTAGE		
Vail 06/01-14/21	Vail, Brad - PD	0.00	\$3,581.51	0.00	3,581.51
Desc:	CELLEBRITE TRAINING-VICTORIA	Acct: 10-211-315-0000	RECRUITMENT & TRAINING		
Desc:	Exxonmobile-Fuel	Acct: 10-211-321-0000	REPAIRS & MAINT-VEHICLES		
Desc:	Wheelabrator - Drug Burn	Acct: 10-211-318-0000	CONTRACTED SERVICES		
Desc:	EasyKeys-Keys evidence room	Acct: 10-211-323-0000	MATERIAL & SUPPLIES		
Walsh 05/16-27/21	Walsh, Dillon - IT	0.00	\$316.79	0.00	316.79
Desc:	Amazon - Pc Case	Acct: 10-181-331-0000	DEPARTMENT EQUIPMENT		
Desc:	Dell - Hard Drive	Acct: 10-181-331-0000	DEPARTMENT EQUIPMENT		
Walsh 06/01-14/21	Walsh, Dillon - IT	0.00	\$10.00	0.00	10.00
Desc:	Walsh, Dillon - IT	Acct: 10-181-318-0000	CONTRACTED SERVICES		
Cooney 05/16-27/21	Cooney, Scott - FD	0.00	\$11.67	0.00	11.67
Desc:	Amazon-Pump	Acct: 10-221-323-0000	MATERIAL & SUPPLIES		
Cooney 06/01-14/21	Cooney, Scott - FD	0.00	\$114.18	0.00	114.18
Desc:	Amazon- View Binders	Acct: 10-221-316-0000	FIRE SAFETY EDUCATION		
Desc:	Amazon - Knox Key Holder	Acct: 10-221-331-0400	ALARM SYSTEM/EXTINGUISHER MAINT		
Desc:	Amazon- Car Wash Brush	Acct: 10-221-321-0200	REPAIRS & MAINT EMS VEHICLES		
Czora 05/16-27/21	Czora, Jason - FD	0.00	\$798.00	0.00	798.00
Desc:	HomeDepot - Lawn Mower STN#2	Acct: 10-221-321-0100	REPAIRS & MAINT-BUILDING		
Desc:	HomeDepot - Lawn Mower	Acct: 10-221-321-0100	REPAIRS & MAINT-BUILDING		

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Delisle 05/16-27/21	Delisle, Jeremy - DPW	-5.00	\$2,220.69	0.00	2,220.69	
Desc: Amazon - Battery Powered Impact	Acct: 10-321-321-0000		REPAIRS & MAINT-VEHICLES			
Desc: Amazon - Fuel Cap for Tractor	Acct: 65-963-321-0000		REPAIRS & MAINT-VEHICLES			
Desc: Amazon - Prime Fee	Acct: 50-954-313-0000		MEMBERSHIP DUES			
Desc: StateofVT ANR - Stormwater Op Fee	Acct: 10-325-317-0000		PERMITS AND LICENSES			
Delisle 06/01-14/21	Delisle, Jeremy - DPW	428.40	\$428.40	0.00	428.40	
Desc: IndustrialBatteryPros-Batteries	Acct: 65-963-320-0100		EQUIP OPERATION/MAINT-GENERAL			
Desc: AT&T - I pad Service	Acct: 50-952-324-0000		TELEPHONE			
Desc: AT&T - I pad Service	Acct: 55-954-324-0000		TELEPHONE			
Dube 05/16-27/21	Dube, Chris - FD	0.00	\$105.00	0.00	105.00	
Desc: White's Dairy Supply - Grass Seed	Acct: 10-221-321-0100		REPAIRS & MAINT-BUILDING			
Hannux 06/01-14/21	Hannux, Shawn - FD	0.00	\$73.82	0.00	73.82	
Desc: HomeDepot-Building Maint	Acct: 10-221-321-0100		REPAIRS & MAINT-BUILDING			
Hausler 05/16-27/21	Hausler, Scott - REC	0.00	\$903.97	0.00	903.97	
Desc: NRPA - VRPA Conference	Acct: 10-511-311-0000		TRAVEL & MEETINGS			
Desc: StickerMule-Stickers for Trailer	Acct: 10-521-323-0000		MATERIAL & SUPPLIES			
Desc: Michael's-Wreaths Memorial Day	Acct: 10-521-323-0000		MATERIAL & SUPPLIES			
Hausler 06/01-14/21	Hausler, Scott - REC	0.00	\$634.47	0.00	634.47	
Desc: BeaconAthletics-Field Lining Equipe	Acct: 10-527-323-0000		MATERIAL & SUPPLIES			
Hedges 05/16-27/21	Hedges, Charles - FD	0.00	\$758.92	0.00	758.92	
Desc: Home Depot - Mulch	Acct: 10-221-321-0100		REPAIRS & MAINT-BUILDING			
Desc: BestBuy-Computer	Acct: 10-221-320-0000		EQUIP OPERATION/MAINT-OFFICE			
Jay 05/01-15/21	McDonough, Jay - REC	0.00	\$300.57	0.00	300.57	
Desc: VRPA-Summerama	Acct: 10-511-315-0000		RECRUITMENT & TRAINING			
Desc: Amazon-Lego Supplies	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			
Desc: Amazon-Soaker Hose	Acct: 10-521-323-0000		MATERIAL & SUPPLIES			
Desc: BJ's-Snacks for Camp	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			
Desc: VRPA-Annual Meeting	Acct: 10-511-315-0000		RECRUITMENT & TRAINING			
Jay 05/16-27/21	McDonough, Jay - REC	0.00	\$130.57	0.00	130.57	
Desc: Amazon - Hard Hats	Acct: 10-521-326-0000		UNIFORMS-PURCHASE/LEASE/CLEAN			
Desc: Amazon - Telephone Parts	Acct: 10-511-323-0000		MATERIAL & SUPPLIES			
Desc: Amazon- Clay Kits	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			
Jay 05/28-31/21	McDonough, Jay - REC	0.00	\$324.00	0.00	324.00	
Desc: Aspira-Silver Lake	Acct: 10-514-318-0000		CONTRACTED SERVICES			
Jay 06/01-14/21	McDonough, Jay - REC	0.00	\$2,630.99	0.00	2,630.99	
Desc: Amazon-Chair Backsupport	Acct: 10-511-323-0000		MATERIAL & SUPPLIES			
Desc: Snaks/Pizza - Staff Meeting	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			
Desc: Amazon- First Aid Kits	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			
Desc: Amazon-Water Slide	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			
Desc: Amazon-Clay/Portable Speaker	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			
Desc: Camp Supplies	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			
Desc: Redbox-Movie in the Park	Acct: 10-516-323-0000		MATERIAL & SUPPLIES			
Desc: Amazon-Canopy Tents	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			
Desc: Staples - Badge Holders	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			
Desc: American CampAssoc-Staff Training	Acct: 10-514-315-0000		RECRUITMENT & TRAINING			
Kreis 05/16-27/21	Kreis, Dylan - REC	0.00	\$644.00	0.00	644.00	
Desc: Amazon - Pole Pad	Acct: 10-521-318-0000		CONTRACTED SERVICES			
Kreis 06/01-14/21	Kreis, Dylan - REC	0.00	\$49.72	0.00	49.72	
Desc: StateofVT-DWGP Application Fee	Acct: 10-511-313-0000		MEMBERSHIP DUES			
Desc: HomeDepot-parts	Acct: 10-514-323-0000		MATERIAL & SUPPLIES			

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Nulty 06/01-14/21	Nulty, Paula - ADMIN	0.00	\$159.92	0.00	159.92
Desc: HomeDepot-Fans for TH as HVAC faile	Acct: 10-161-321-0000		REPAIRS & MAINT		
Ostrout 05/16-27/21	Ostrout, Gail - FIN	0.00	\$177.41	0.00	177.41
Desc: PriceChopper-Meeting Supplies	Acct: 10-171-311-0000		TRAVEL & MEETINGS		
Ostrout 06/01-14/21	Ostrout, Gail - FIN	0.00	\$254.27	0.00	254.27
Desc: LinkedIn-Membership Fee	Acct: 10-171-313-0000		MEMBERSHIP DUES		
Perry 05/16-27/21	Perry, Diane - PD	0.00	\$195.39	0.00	195.39
Desc: Maple Street-Police Week Lunch	Acct: 10-211-311-0000		TRAVEL & MEETINGS		
Desc: Exxon - Fuel	Acct: 10-211-321-0000		REPAIRS & MAINT-VEHICLES		
Perry 06/01-14/21	Perry, Diane - PD	0.00	\$1,271.77	0.00	1,271.77
Desc: AIR CONDITIONERS	Acct: 10-211-323-0000		MATERIAL & SUPPLIES		
Desc: VT DMV - Fusion Registration	Acct: 10-211-321-0000		REPAIRS & MAINT-VEHICLES		
Tracy 06/01-14/21	Yarlott-Davis, Tracy - TM	0.00	\$20.00	0.00	20.00
Desc: ChargePoint-Electric vehicle charge	Acct: 10-121-311-0000		TRAVEL & MEETINGS		
Turner 06/01-14/21	Turner, Joe - VAL	0.00	\$17.60	0.00	17.60
Desc: USPS-Postage 2021Abstarct&Change of	Acct: 10-174-322-0000		POSTAGE		
Vendor Total:			16,824.24	0.00	16,824.24
006700	BOUND TREE MEDICAL, LLC	BOUND TREE MEDICAL, LLC		6/25/2021	73089
84075116	MEDICAL SUPPLIES	0.00	\$840.87	0.00	840.87
Desc: MEDICAL SUPPLIES	Acct: 10-221-331-0500		MEDICAL EQUIPMENT & SUPPLIES		
84077886	MEDICAL SUPPLIES	0.00	\$4.40	0.00	4.40
Desc: MEDICAL SUPPLIES	Acct: 10-221-331-0500		MEDICAL EQUIPMENT & SUPPLIES		
84083658	MEDICAL SUPPLIES - COVID	0.00	\$24.29	0.00	24.29
Desc: MEDICAL SUPPLIES - COVID	Acct: 10-221-417-0017		EXTRAORDINARY EXP - COVID-19		
Vendor Total:			869.56	0.00	869.56
006905	BP HARTFORD LLC			6/25/2021	73090
40	SOLAR ARRAY - JUNE 2021	1,093.96	\$1,559.40	0.00	1,559.40
Desc: SOLAR ARRAY - JUNE 2021	Acct: 10-321-329-0000		ELECTRICITY		
Desc: SOLAR ARRAY - JUNE 2021	Acct: 60-961-329-0000		ELECTRICITY		
Vendor Total:			1,559.40	0.00	1,559.40
008700	CABLE, MITCHELL	MITCHELL CABLE		6/25/2021	73091
PO#8972	REIMBURSE FOR CLOTHING ALLOWAI	0.00	\$120.00	0.00	120.00
Desc: REIMBURSE FOR CLOTHING ALLOWANCE-BI	Acct: 10-211-326-0000		PURCHASE UNIFORMS & CLEANING		
Vendor Total:			120.00	0.00	120.00
009165	CENTRISYS CORPORATION			6/25/2021	73092
PSI-26722	Maintenance to centrisys and inspec	4,336.29	\$4,336.29	0.00	4,336.29
Desc: Maintenance to centrisys and inspec	Acct: 60-961-320-0100		EQUIP OPERATION/MAINT-GENERAL		
Vendor Total:			4,336.29	0.00	4,336.29
009470	CHAMPLIN ASSOCIATES INC			6/25/2021	73093
2029-1	CSO & RAIN MONITORING	9,172.22	\$9,172.22	0.00	9,172.22
Desc: CSO & RAIN MONITORING	Acct: 60-964-540-0000		RF1-271-1 CSO Plan Services		
Vendor Total:			9,172.22	0.00	9,172.22

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009818	CINTAS CORPORATION NO. 2	CINTAS LOC. #68M, 71M	6/25/2021		73094
4086759540	UNIFORMS	0.00	\$277.64	0.00	277.64
Desc: UNIFORMS		Acct: 10-325-326-0000	UNIFORMS		
4086759558	UNIFORMS	106.56	\$106.56	0.00	106.56
Desc: UNIFORMS		Acct: 60-961-326-0000	UNIFORMS-PURCHASE/LEASE/CLEAN		
4086759568	UNIFORMS	80.03	\$80.03	0.00	80.03
Desc: UNIFORMS		Acct: 50-954-326-0000	UNIFORMS-PURCHASE/LEASE/CLEAN		
4086969855	UNIFORMS	49.62	\$49.62	0.00	49.62
Desc: UNIFORMS		Acct: 65-963-326-0000	UNIFORMS PURCHASE/LEASE		
4087355921	UNIFORMS	80.03	\$80.03	0.00	80.03
Desc: UNIFORMS		Acct: 55-954-326-0000	UNIFORMS-PURCHASE/LEASE/CLEAN		
4087355935	UNIFORMS	106.56	\$106.56	0.00	106.56
Desc: UNIFORMS		Acct: 60-961-326-0000	UNIFORMS-PURCHASE/LEASE/CLEAN		
4087355943	UNIFORMS	0.00	\$221.53	0.00	221.53
Desc: UNIFORMS		Acct: 10-325-326-0000	UNIFORMS		
4087623544	UNIFORMS	49.62	\$49.62	0.00	49.62
Desc: UNIFORMS		Acct: 65-963-326-0000	UNIFORMS PURCHASE/LEASE		
Vendor Total:			971.59	0.00	971.59
012293	D&B OUTDOOR POWER EQUIPMENT LLC		6/25/2021		73095
30710	2 Chainsaws	0.00	\$1,086.78	0.00	1,086.78
Desc: 2 Chainsaws		Acct: 10-321-331-0000	DEPARTMENT EQUIPMENT		
Vendor Total:			1,086.78	0.00	1,086.78
013000	DAVE'S STARTER & ALTERNATOR	DAVE'S STARTER & ALTERNATOR	6/25/2021		73096
1009804	E1 TEST AND PARTS	0.00	\$625.00	0.00	625.00
Desc: E1 TEST AND PARTS		Acct: 10-221-321-0000	REPAIRS & MAINT-VEHICLES		
Vendor Total:			625.00	0.00	625.00
013653	DENNISON LUBRICANTS INC		6/25/2021		73097
3488593	GAS	99.45	\$99.45	0.00	99.45
Desc: GAS		Acct: 60-961-319-0000	EQUIPMENT OPERATION-GAS		
3488594	GAS	407.80	\$407.80	0.00	407.80
Desc: GAS		Acct: 60-961-320-0100	EQUIP OPERATION/MAINT-GENERAL		
Vendor Total:			507.25	0.00	507.25
013680	GARTH BROOKS	DESORCIE EMERGENCY PRODUCTS LLC	6/25/2021		73098
16890	PARTS	0.00	\$489.46	0.00	489.46
Desc: PARTS		Acct: 10-221-321-0000	REPAIRS & MAINT-VEHICLES		
16914	PARTS	0.00	\$69.00	0.00	69.00
Desc: PARTS		Acct: 10-221-321-0000	REPAIRS & MAINT-VEHICLES		
Vendor Total:			558.46	0.00	558.46
014423	DUBOIS & KING, INC		6/25/2021		73099
45	HTFD ROUNDABOUT PROJ FEB-APR'2	1,540.00	\$1,540.00	0.00	1,540.00
Desc: HTFD ROUNDABOUT PROJ FEB-APR'21		Acct: 80-311-318-8001	CONTRACTED SERVICES(STP 0113/5		
46	HTFD ROUNDABOUT PROJ MAY 2021	1,330.00	\$1,330.00	0.00	1,330.00

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014423	Desc: HTFD ROUNABOUT PROJ MAY 2021 DUBOIS & KING, INC	Acct: 80-311-318-8001	CONTRACTED SERVICES(STP 0113(5 6/25/2021		73100	
	125267M1,621119	S MAIN ST MUNICIPAL PARKING 06.10	1,350.00	\$2,550.00	0.00	2,550.00
	Desc: S MAIN ST MUNICIPAL PARKING 06.10.2	Acct: 13-921-316-8070	WRJ PARKING LOT- ADMIN & ENGINE			
	Desc: S MAIN ST MUNICIPAL PARKING 06.10.2	Acct: 10-325-318-0000	CONTRACT SERVICES			
	Vendor Total:		5,420.00	0.00	5,420.00	
014447	DUFRESNE GROUP		6/25/2021		73101	
	15619	FIXED FEE - ENGINEERING SERVICES	2,793.00	\$2,793.00	0.00	2,793.00
	Desc: FIXED FEE - ENGINEERING SERVICES	Acct: 65-964-318-0000	CONTRACTED SERVICES			
	Vendor Total:		2,793.00	0.00	2,793.00	
015280	EBBIGHAUSEN, KARL	KARL EBBIGHAUSEN	6/25/2021		73102	
	PO#9033	REIMBURSEMENT	0.00	\$88.25	0.00	88.25
	Desc: REIMBURSE CLOTHING ALLOWANCE	Acct: 10-211-326-0000	PURCHASE UNIFORMS & CLEANING			
	Vendor Total:		88.25	0.00	88.25	
015479	EMERGENCY TEMPORARY HAUSING, INC		6/25/2021		73103	
	2032	LEASE STN#2 MAY-JUNE 2021	0.00	\$1,995.00	0.00	1,995.00
	Desc: LEASE STN#2 MAY-JUNE 2021	Acct: 10-221-321-0100	REPAIRS & MAINT-BUILDING			
	Vendor Total:		1,995.00	0.00	1,995.00	
015500	ENDYNE, INC		6/25/2021		73104	
	373588	WSID 5320 QUE CENTRAL TC	18.00	\$18.00	0.00	18.00
	Desc: WSID 5320 QUE CENTRAL TC	Acct: 55-954-318-0000	CONTRACTED SERVICES			
	373589	WSID 5319 HTFD W TC	72.00	\$72.00	0.00	72.00
	Desc: WSID 5319 HTFD W TC	Acct: 50-954-318-0000	CONTRACTED SERVICES			
	373805	WRJ WEEKLY ANALYSIS	220.00	\$220.00	0.00	220.00
	Desc: WRJ WEEKLY ANALYSIS	Acct: 60-961-318-0000	CONTRACTED SERVICES			
	373996	QUECHEE WW	180.00	\$180.00	0.00	180.00
	Desc: QUECHEE WW	Acct: 65-963-318-0000	CONTRACTED SERVICES			
	374592	QUE WW	180.00	\$180.00	0.00	180.00
	Desc: QUE WW	Acct: 65-963-318-0000	CONTRACTED SERVICES			
	374593	WRJ WEEKLY ANALYSIS	90.00	\$90.00	0.00	90.00
	Desc: WRJ WEEKLY ANALYSIS	Acct: 60-961-318-0000	CONTRACTED SERVICES			
	Vendor Total:		760.00	0.00	760.00	
016080	CONSOLIDATED COMMUNICATIONS		6/25/2021		73105	
	111020181918JUN'21	QUECHEE WW PLANT	52.96	\$52.96	0.00	52.96
	Desc: QUECHEE WW PLANT	Acct: 65-963-324-0000	TELEPHONE			
	13444320594MAY'21	RADIO CIRCUITS	0.00	\$522.39	0.00	522.39
	Desc: RADIO CIRCUITS	Acct: 10-271-320-0100	EQUIP OPERATION-COMMUNICATION			
	14091736024JUN'21	WABA	0.00	\$180.41	0.00	180.41
	Desc: WABA	Acct: 10-530-324-0000	Telephone			
	14362366935JUN'21	HEMLOCK RIDGE	62.62	\$62.62	0.00	62.62
	Desc: HEMLOCK RIDGE	Acct: 50-954-324-0000	TELEPHONE			
	802295704963JUN'21	SPORTS PARK PUMP STN	54.68	\$54.68	0.00	54.68

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	Desc: SPORTS PARK PUMP STN	Acct: 60-964-324-0000	TELEPHONE		
8022959708618JUN'21	MAXFIELD PUMP HOUSE	57.87	\$57.87	0.00	57.87
	Desc: MAXFIELD PUMP HOUSE	Acct: 60-964-324-0000	TELEPHONE		
Vendor Total:			930.93	0.00	930.93
016540	FERGUSON ENTERPRISES, INC	FERGUSON WATERWORKS #591 #576		6/25/2021	73106
1012703-1	METER HORNS	2,340.00	\$2,340.00	0.00	2,340.00
	Desc: 36 METER HORNS	Acct: 50-954-323-0000	MATERIAL & SUPPLIES		
	Desc: 36 METER HORNS	Acct: 55-954-323-0000	MATERIALS & SUPPLIES		
1024300	MATERIALS	315.36	\$315.36	0.00	315.36
	Desc: MATERIALS	Acct: 55-954-321-0200	REPAIRS & MAINT-MAINS & APPUR		
1029176	MATERIALS	0.00	\$290.66	0.00	290.66
	Desc: MATERIALS	Acct: 10-311-323-0000	MATERIAL & SUPPLIES		
1029581	MATERIALS	400.45	\$400.45	0.00	400.45
	Desc: MATERIALS	Acct: 60-964-321-0200	REPAIRS & MAINT-MAINS		
1029690	MATERIALS	40.00	\$40.00	0.00	40.00
	Desc: MATERIALS	Acct: 65-965-323-0000	MATERIALS & SUPPLIES		
Vendor Total:			3,386.47	0.00	3,386.47
017110	FISHER AUTO PARTS, INC			6/25/2021	73107
301-075228	FUEL FILTERS	0.00	\$19.94	0.00	19.94
	Desc: FUEL FILTERS	Acct: 10-321-319-0000	EQUIPMENT OPERATION-GAS		
301-075229	FUEL FILTERS	0.00	\$19.94	0.00	19.94
	Desc: FUEL FILTERS	Acct: 10-321-319-0000	EQUIPMENT OPERATION-GAS		
301-075546	SWEEPER TAIL LIGHT	0.00	\$20.74	0.00	20.74
	Desc: SWEEPER TAIL LIGHT	Acct: 10-321-321-0000	REPAIRS & MAINT-VEHICLES		
301-075701	Filter for Toro Granstand	0.00	\$35.00	0.00	35.00
	Desc: Filter for Toro Granstand	Acct: 10-527-320-0000	EQUIP OPERATION & MAINT		
301-075959	PARTS	7.54	\$7.54	0.00	7.54
	Desc: PARTS	Acct: 65-963-321-0000	REPAIRS & MAINT-VEHICLES		
301-076526	PARTS	0.00	\$119.18	0.00	119.18
	Desc: PARTS	Acct: 10-321-321-0000	REPAIRS & MAINT-VEHICLES		
Vendor Total:			222.34	0.00	222.34
017300	FOGG'S HARDWARE & BUILDING			6/25/2021	73108
62111/6	MASTER LOCK	0.00	\$68.24	0.00	68.24
	Desc: MASTER LOCK	Acct: 10-161-321-0000	REPAIRS & MAINT		
05.31.2021	INV#001366 HWY LATE PAY	0.00	\$1.53	0.00	1.53
	Desc: INV#001366 HWY LATE PAY	Acct: 10-316-323-0000	MATERIALS AND SUPPLIES		
16131/6	SIGLE KEY	0.00	\$8.94	0.00	8.94
	Desc: SIGLE KEY	Acct: 10-221-323-0000	MATERIAL & SUPPLIES		
19923/6	MATERIALS	42.96	\$42.96	0.00	42.96
	Desc: MATERIALS	Acct: 65-963-323-0000	MATERIALS & SUPPLIES		
20815/6	MATERIALS	37.57	\$37.57	0.00	37.57
	Desc: MATERIALS	Acct: 65-963-323-0000	MATERIALS & SUPPLIES		
20849/6	Supplies for Maxfield	0.00	\$33.96	0.00	33.96
	Desc: Supplies for Maxfield	Acct: 10-527-323-0000	MATERIAL & SUPPLIES		
20915/6	Materials for Trails Day on 6/19/21	0.00	\$26.98	0.00	26.98

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	Desc: Materials for Trails Day on 6/19/21	Acct: 10-624-318-0000	CONTRACTED SERVICES		
	Desc: Materials for Trails Day on 6/19/21	Acct: 10-611-318-0000	CONTRACT SERVICES		
20938/6	BATTERIES	9.99	\$9.99	0.00	9.99
	Desc: BATTERIES	Acct: 60-961-323-0000	MATERIAL & SUPPLIES		
21048/6	SINGLE SIDED KEY	0.00	\$1.49	0.00	1.49
	Desc: SINGLE SIDED KEY	Acct: 10-211-323-0000	MATERIAL & SUPPLIES		
58256/6	Materials for Trails Day on 6/19/21	0.00	\$624.01	0.00	624.01
	Desc: Materials for Trails Day on 6/19/21	Acct: 10-624-318-0000	CONTRACTED SERVICES		
Vendor Total:			855.67	0.00	855.67
017850	GALLS, LLC			6/25/2021	73109
018522583	CLOTHING ALLOWANCE-CLIFFORD	0.00	\$35.36	0.00	35.36
	Desc: CLOTHING ALLOWANCE-CLIFFORD	Acct: 10-211-326-0000	PURCHASE UNIFORMS & CLEANING		
018565146	DISPOSABLE TRANZPORT HOODS	0.00	\$94.97	0.00	94.97
	Desc: DISPOSABLE TRANZPORT HOODS	Acct: 10-211-326-0000	PURCHASE UNIFORMS & CLEANING		
Vendor Total:			130.33	0.00	130.33
019390	GRAINGER			6/25/2021	73110
9931037320	SAFETY GLASSES	18.96	\$18.96	0.00	18.96
	Desc: SAFETY GLASSES	Acct: 65-963-323-0000	MATERIALS & SUPPLIES		
9931236153	MATERIALS	32.48	\$32.48	0.00	32.48
	Desc: MATERIALS	Acct: 65-963-323-0000	MATERIALS & SUPPLIES		
Vendor Total:			51.44	0.00	51.44
019392	GREGG NALETTE	GRANDSTAND APPAREL		6/25/2021	73111
4051	Summer Baseball Uniforms	0.00	\$805.00	0.00	805.00
	Desc: Summer Baseball Uniforms	Acct: 10-514-330-0000	ATHLETIC SUPPLIES		
4052	VENTURE SHIRTS	0.00	\$2,660.00	0.00	2,660.00
	Desc: Staff Shirts	Acct: 10-514-326-0000	UNIFORMS-PURCHASE/LEASE/CLEAN		
	Desc: Camper and CIT shirts	Acct: 10-514-323-0000	MATERIAL & SUPPLIES		
4053	Staff Shirts	0.00	\$189.00	0.00	189.00
	Desc: Staff Shirts	Acct: 10-514-326-0000	UNIFORMS-PURCHASE/LEASE/CLEAN		
Vendor Total:			3,654.00	0.00	3,654.00
019405	GRANITE STATE GLASS			6/25/2021	73112
E0035437	WINDOW - REC DEPT	0.00	\$633.00	0.00	633.00
	Desc: WINDOW - REC DEPT	Acct: 10-161-418-0000	PROPERTY & LIABILITY INSURANCE		
Vendor Total:			633.00	0.00	633.00
019850	GREEN MOUNTAIN POWER CORP	GREEN MOUNTAIN POWER CORP		6/25/2021	73113
04832000006MAY'21	S MAIN ST PUMP STN - WW	93.14	\$93.14	0.00	93.14
	Desc: S MAIN ST PUMP STN - WW	Acct: 60-964-329-0000	ELECTRICITY		
09732000006JUN'21	319 LATHAM WKS LN TRMT PLANT	9,022.12	\$9,022.12	0.00	9,022.12
	Desc: 319 LATHAM WKS LN TRMT PLANT	Acct: 60-961-329-0000	ELECTRICITY		
09832000005MAY'21	BRIGGS PARK - MAIN ST - REC	0.00	\$20.32	0.00	20.32
	Desc: BRIGGS PARK - MAIN ST - REC	Acct: 10-521-329-0000	ELECTRICITY		
13414587553JUN'21	120 LESLE DR PAVILLION A	0.00	\$307.94	0.00	307.94
	Desc: 120 LESLE DR PAVILLION A	Acct: 10-528-329-0000	ELECTRICITY		

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13833000006JUN'21	LYMAN POINT PARK - REC	0.00	\$23.77	0.00	23.77	
	Desc: LYMAN POINT PARK - REC	Acct: 10-521-329-0000	ELECTRICITY			
23490000009JUN'21	WILDER WELL - WATER	1,263.71	\$1,263.71	0.00	1,263.71	
	Desc: WILDER WELL - WATER	Acct: 50-952-329-0000	ELECTRICITY			
28933000003JUN'21	MAPLE ST SEWER PUMP - WW	167.40	\$167.40	0.00	167.40	
	Desc: MAPLE ST SEWER PUMP - WW	Acct: 60-961-329-0000	ELECTRICITY			
34926000000MAY'21	PARK/LEHMAN BRIDGE	0.00	\$88.85	0.00	88.85	
	Desc: PARK/LEHMAN BRIDGE	Acct: 10-314-329-0000	ELECTRICITY			
37762000000MAY'21	N MAIN ST-TRAFFIC LIGHT	0.00	\$38.76	0.00	38.76	
	Desc: N MAIN ST-TRAFFIC LIGHT	Acct: 10-314-329-0000	ELECTRICITY			
78840100008MAY'21	RAILRD ROW ENGINE 494	0.00	\$62.73	0.00	62.73	
	Desc: RAILRD ROW ENGINE 494	Acct: 10-521-329-0000	ELECTRICITY			
38035000009	OLCOTT COMMERCE PARK	137.40	\$137.40	0.00	137.40	
	Desc: OLCOTT COMMERCE PARK	Acct: 60-964-329-0000	ELECTRICITY			
39065357434MAY'21	CURRIER ST - LAMP POST STREET LI	0.00	\$41.52	0.00	41.52	
	Desc: CURRIER ST - LAMP POST STREET LIGHT	Acct: 10-314-329-0000	ELECTRICITY			
39135140109JUN'21	120 LESLE DR PAVILLION C	0.00	\$42.45	0.00	42.45	
	Desc: 120 LESLE DR PAVILLION C	Acct: 10-528-329-0000	ELECTRICITY			
67003200002JUN'21	WILLARD RD QUECHEE FIRE STN#2	0.00	\$142.21	0.00	142.21	
	Desc: WILLARD RD QUECHEE FIRE STN#2	Acct: 10-221-329-0000	ELECTRICITY			
43833000003JUN'21	BRIDGE ST TRAFFIC LIGHT -HWY	0.00	\$51.62	0.00	51.62	
	Desc: BRIDGE ST TRAFFIC LIGHT -HWY	Acct: 10-314-329-0000	ELECTRICITY			
48933200007JUN'21	VILLAGE GREEN BALLOON FESTIVAL	0.00	\$21.56	0.00	21.56	
	Desc: VILLAGE GREEN BALLOON FESTIVAL	Acct: 10-521-329-0000	ELECTRICITY			
49662156394JUN'21	SYKES MOUNTAIN AVE	0.00	\$648.55	0.00	648.55	
	Desc: SYKES MOUNTAIN AVE	Acct: 10-314-329-0000	ELECTRICITY			
49672200000JUN'21	RTE WEST HTFD & QUE	0.00	\$478.87	0.00	478.87	
	Desc: RTE WEST HTFD & QUE	Acct: 10-314-329-0000	ELECTRICITY			
49762000005MAY'21	BRIDGE ST PUMP STN - WW	117.67	\$117.67	0.00	117.67	
	Desc: BRIDGE ST PUMP STN - WW	Acct: 60-961-329-0000	ELECTRICITY			
57303200000JUN'21	HIGH ST MAIN ST	25.60	\$25.60	0.00	25.60	
	Desc: HIGH ST MAIN ST	Acct: 65-964-329-0000	ELECTRICITY			
67399084366JUN'21	120 LESLE DR PAVILLION B	0.00	\$743.07	0.00	743.07	
	Desc: 120 LESLE DR PAVILLION B	Acct: 10-528-329-0000	ELECTRICITY			
68053200009JUN'21	ROUTE 14 W HARTFORD LIB	0.00	\$142.93	0.00	142.93	
	Desc: ROUTE 14 W HARTFORD LIB	Acct: 10-524-329-0000	ELECTRICITY			
74856156851MAY'21	97 S MAIN ST CHARGING STN	0.00	\$122.47	0.00	122.47	
	Desc: 97 S MAIN ST CHARGING STN	Acct: 10-314-329-0100	ELECTRICITY - CHARGING STATION			
82948328248JUN'21	PROSPECT ST TEMP SERV TRAFF LGT	0.00	\$111.55	0.00	111.55	
	Desc: PROSPECT ST TEMP SERV TRAFF LGTS	Acct: 10-314-329-0000	ELECTRICITY			
87833000000JUN'21	MAPLE ST TRAFFIC LGT -HWY	0.00	\$55.30	0.00	55.30	
	Desc: MAPLE ST TRAFFIC LGT -HWY	Acct: 10-314-329-0000	ELECTRICITY			
92124869873JUN'21	43 HIGHLAND AVE WABA PUMP HOUS	0.00	\$44.47	0.00	44.47	
	Desc: 43 HIGHLAND AVE WABA PUMP HOUSE	Acct: 10-530-329-0000	ELECTRICITY			
97762000004MAY'21	N MAIN STREET LIGHTS-HWY	0.00	\$43.92	0.00	43.92	
	Desc: N MAIN STREET LIGHTS-HWY	Acct: 10-314-329-0000	ELECTRICITY			
Vendor Total:			14,059.90	0.00	14,059.90	

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020135	GREENMAN-PEDERSEN, INC		6/25/2021		73114
314790	HTFD STP 0113(59)S INV#14 APR'21	41,725.88	\$41,725.88	0.00	41,725.88
Desc:	HTFD STP 0113(59)S INV#14 APR'21	Acct: 80-311-318-8001	CONTRACTED SERVICES(STP 0113(5		
316495	HTFD STP 0113(59)S INV#15 MAY'21	39,971.02	\$39,971.02	0.00	39,971.02
Desc:	HTFD STP 0113(59)S INV#15 MAY'21	Acct: 80-311-318-8001	CONTRACTED SERVICES(STP 0113(5		
Vendor Total:			81,696.90	0.00	81,696.90
020400	HACH COMPANY		6/25/2021		73115
12504922	KTO REAGENT	182.20	\$182.20	0.00	182.20
Desc:	KTO REAGENT	Acct: 50-952-323-0000	MATERIAL & SUPPLIES		
Vendor Total:			182.20	0.00	182.20
020701	HANOVER, TOWN OF	TOWN OF HANOVER	6/25/2021		73116
00723	ELAN FEES APRIL 30 - MAY 29	0.00	\$224.87	0.00	224.87
Desc:	ELAN FEES APRIL 30 - MAY 29	Acct: 10-271-320-0100	EQUIP OPERATION-COMMUNICATION		
00725	ELAN FEES MAY 30 - JUNE 29	0.00	\$224.87	0.00	224.87
Desc:	ELAN FEES MAY 30 - JUNE 29	Acct: 10-271-320-0100	EQUIP OPERATION-COMMUNICATION		
Vendor Total:			449.74	0.00	449.74
021280	HARTFORD, TOWN OF	TOWN OF HARTFORD	6/25/2021		73117
2021	FYE 2021 approved reserve deposit	0.00	\$225,000.00	0.00	225,000.00
Desc:	FYE 2021 approved reserve deposit	Acct: 10-921-544-0321	TRANSFER - HIGHWAY RESERVE		
Vendor Total:			225,000.00	0.00	225,000.00
021500	HARTFORD SCHOOL, TOWN OF	TOWN OF HARTFORD SCHOOL	6/25/2021		73118
2021 Taxes#7 FINAL	FYE2021 Taxes Final Pmnt Per State	0.00	\$2,604,949.60	0.00	2,604,949.60
Desc:	FYE2021 Taxes Final Pmnt Per State	Acct: 10-015-100-0100	DUE TO SCHOOL DISTRICT - TAXES		
Vendor Total:			2,604,949.60	0.00	2,604,949.60
022145	HENDERSON'S TREE SERVICE, LLC	JAMES HENDERSON	6/25/2021		73119
82930	Center of Town Cemetery Hazard Tree	0.00	\$2,630.00	0.00	2,630.00
Desc:	Center of Town Cemetery Hazard Tree	Acct: 10-521-318-0341	Cemetery		
Vendor Total:			2,630.00	0.00	2,630.00
024582	JB PORTABLE TOILETS		6/25/2021		73120
1112	PORTABLE TOILETS RATCLIFFE PARK	0.00	\$283.20	0.00	283.20
Desc:	PORTABLE TOILETS RATCLIFFE PARK	Acct: 10-514-318-0000	CONTRACTED SERVICES		
Vendor Total:			283.20	0.00	283.20
024800	JOE'S EQUIPMENT SERVICE		6/25/2021		73121
1-133672	New sring trimmer heads	0.00	\$55.90	0.00	55.90
Desc:	New sring trimmer heads	Acct: 10-527-323-0000	MATERIAL & SUPPLIES		
39541-01	CHAIN REPAIRS	0.00	\$47.50	0.00	47.50
Desc:	CHAIN REPAIRS	Acct: 10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
Vendor Total:			103.40	0.00	103.40
027750	DEAD RIVER COMPANY	DEAD RIVER COMPANY	6/25/2021		73122

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	4935943,80294	PROPANE 729.6G@\$1.42 CRANBERR`	1,050.62	\$1,050.62	0.00	1,050.62
	Desc:	PROPANE 729.6G@\$1.42 CRANBERRY LN	Acct: 50-952-327-0000	BUILDING HEAT		
		Vendor Total:		1,050.62	0.00	1,050.62
027850	LEWIS, WILLIAM J		WILLIAM LEWIS ELECTRICAL LLC		6/25/2021	73123
	21/50	EXHAUST SYSTEM INSTAL - STN#2	0.00	\$974.00	0.00	974.00
	Desc:	EXHAUST SYSTEM INSTAL - STN#2	Acct: 10-221-321-0100	REPAIRS & MAINT-BUILDING		
		Vendor Total:		974.00	0.00	974.00
028155	LORD, JEFFREY		JEFFREY LORD		6/25/2021	73124
	PO#9028	POLLUTION ABATEMENT FACILITY OP	480.00	\$480.00	0.00	480.00
	Desc:	Tom Coates license	Acct: 65-963-317-0000	PERMITS & LICENSES		
	Desc:	Jeff Lords License	Acct: 65-963-317-0000	PERMITS & LICENSES		
		Vendor Total:		480.00	0.00	480.00
029096	MANBY, C ROBERT JR, PC		C. ROBERT MANBY JR., PC		6/25/2021	73125
	4779	LEGAL SERVICES: MUSCO	0.00	\$100.00	0.00	100.00
	Desc:	LEGAL SERVICES: MUSCO	Acct: 10-511-318-0000	CONTRACTED SERVICES		
	4802	LEGAL SERV: DOWNTOWN WRJ	1,050.00	\$1,050.00	0.00	1,050.00
	Desc:	LEGAL SERV: DOWNTOWN WRJ	Acct: 50-954-543-0010	CAPITAL -PRE RF3-390-3.0		
	Desc:	LEGAL SERV: DOWNTOWN WRJ	Acct: 60-965-544-0010	CAPITAL OUTLAY - RF1-222-3.0		
	Desc:	LEGAL SERV: DOWNTOWN WRJ	Acct: 13-921-360-0100	S. Main St Infrastructure- Construction		
	4803	LEGAL SERVICES: REXEL ACCESS	0.00	\$712.50	0.00	712.50
	Desc:	LEGAL SERVICES: REXEL ACCESS	Acct: 10-325-318-0000	CONTRACT SERVICES		
	4804	LEGAL SERV: WENTWORTH	0.00	\$2,382.50	0.00	2,382.50
	Desc:	LEGAL SERV: WENTWORTH	Acct: 10-013-100-0000	EXCHANGES PAYABLE		
		Vendor Total:		4,245.00	0.00	4,245.00
029745	MARY HITCHCOCK MEMORIAL HOSPITAL		MARY HITCHCOCK MEMORIAL HOSPITAL		6/25/2021	73126
	20210510	MEDICAL SUPPLIES - COVID	0.00	\$464.96	0.00	464.96
	Desc:	MEDICAL SUPPLIES - COVID	Acct: 10-221-417-0017	EXTRAORDINARY EXP - COVID-19		
		Vendor Total:		464.96	0.00	464.96
029746	DARTMOUTH-HITCHCOCK MEDICAL CTR		DARTMOUTH - HITCHCOCK		6/25/2021	73127
	700000516,213910421	ANNUAL FF PHYSICALS NM	0.00	\$120.00	0.00	120.00
	Desc:	ANNUAL FF PHYSICALS NM	Acct: 10-221-318-0000	CONTRACTED SERVICES		
	700000516,214131018	ANNUAL FF PHYSICALS CH	0.00	\$132.00	0.00	132.00
	Desc:	ANNUAL FF PHYSICALS CH	Acct: 10-221-318-0000	CONTRACTED SERVICES		
029746	DARTMOUTH-HITCHCOCK MEDICAL CTR		DARTMOUTH - HITCHCOCK		6/25/2021	73128
	700005551,213699998	PHISICALS	464.00	\$624.00	0.00	624.00
	Desc:	DRUG SCREEN-EXAM-R.CORMIER	Acct: 10-211-315-0000	RECRUITMENT & TRAINING		
	Desc:	PHISICALS EE,HR, WC	Acct: 60-961-317-0000	PERMITS & LICENSES		
	Desc:	PHISICALS BS	Acct: 50-955-317-0000	PERMITS & LICENSES		
029746	DARTMOUTH-HITCHCOCK MEDICAL CTR		DARTMOUTH - HITCHCOCK		6/25/2021	73127
	700000516,213700590	ANNUAL FF PHYSICALS NM & LH	0.00	\$550.00	0.00	550.00
	Desc:	ANNUAL FF PHYSICALS NM & LH	Acct: 10-221-318-0000	CONTRACTED SERVICES		
		Vendor Total:		1,426.00	0.00	1,426.00

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029815	MASON, W.B. COMPANY, INC	W.B. MASON COMPANY, INC		6/25/2021	73129
220148697	Office supplies	0.00	\$57.16	0.00	57.16
Desc: OFFICE SUPPLIES		Acct: 10-151-323-0000	MATERIAL & SUPPLIES		
Desc: OFFICE SUPPLIES		Acct: 10-131-323-0000	MATERIALS & SUPPLIES		
220574502	TONER	0.00	\$169.54	0.00	169.54
Desc: TONER		Acct: 10-121-323-0000	MATERIAL & SUPPLIES		
220752285	OFFICE SUPPLIES	0.00	\$54.80	0.00	54.80
Desc: OFFICE SUPPLIES		Acct: 10-325-323-0000	MATERIAL & SUPPLIES		
220799427	PRINTER INK	0.00	\$356.06	0.00	356.06
Desc: PRINTER INK		Acct: 10-211-323-0000	MATERIAL & SUPPLIES		
219822616	Printer ink	0.00	\$162.33	0.00	162.33
Desc: Printer ink		Acct: 10-121-323-0000	MATERIAL & SUPPLIES		
Vendor Total:			799.89	0.00	799.89
030020	MCCARRAGHER, JAMES A	JAMES A MCCARRAGHER		6/25/2021	73130
06.23.2021	EMT CLASS WUNDERLICH	0.00	\$1,300.00	0.00	1,300.00
Desc: EMT CLASS WUNDERLICH		Acct: 10-221-315-0000	RECRUITMENT & TRAINING		
Vendor Total:			1,300.00	0.00	1,300.00
030048	MCFARLAND-JOHNSON, INC			6/25/2021	73131
60	HTFD ROUNDABOUT APR'21	7,117.14	\$7,117.14	0.00	7,117.14
Desc: HTFD ROUNDABOUT APR'21		Acct: 80-311-318-8001	CONTRACTED SERVICES(STP 0113(5		
61	HTFD ROUNDABOUT MAY'21	7,205.62	\$7,205.62	0.00	7,205.62
Desc: HTFD ROUNDABOUT MAY'21		Acct: 80-311-318-8001	CONTRACTED SERVICES(STP 0113(5		
Vendor Total:			14,322.76	0.00	14,322.76
030200	MCMaster-CARR SUPPLY COMPANY	MCMaster-CARR SUPPLY CO		6/25/2021	73132
59957345	MATERIALS	19.88	\$19.88	0.00	19.88
Desc: MATERIALS		Acct: 65-965-323-0000	MATERIALS & SUPPLIES		
Vendor Total:			19.88	0.00	19.88
030240	MCNALL, GLENN A	GLENN A MCNALL		6/25/2021	73133
PO#9017	Waste Water Exam	100.00	\$100.00	0.00	100.00
Desc: Waste Water Exam		Acct: 60-961-315-0000	RECRUITMENT & TRAINING		
Vendor Total:			100.00	0.00	100.00
031441	MONAGHAN SAFAR DUCHAM PLLC			6/25/2021	73134
16621	LEGAL SERV: BURLIBGTON COMM CO	0.00	\$135.00	0.00	135.00
Desc: LEGAL SERV: BURLIBGTON COMM CONTRAC	Acct: 10-211-318-0000		CONTRACTED SERVICES		
Desc: LEGAL SERV: BURLIBGTON COMM CONTRAC	Acct: 10-221-318-0000		CONTRACTED SERVICES		
16743	LEGAL SERV: BURLIBGTON COMM CO	0.00	\$865.00	0.00	865.00
Desc: LEGAL SERV: BURLIBGTON COMM CONTRAC	Acct: 10-211-318-0000		CONTRACTED SERVICES		
Desc: LEGAL SERV: BURLIBGTON COMM CONTRAC	Acct: 10-221-318-0000		CONTRACTED SERVICES		
17300	LEGAL SERV: BURLIBGTON COMM CO	0.00	\$98.71	0.00	98.71
Desc: LEGAL SERV: BURLIBGTON COMM CONTRAC	Acct: 10-211-318-0000		CONTRACTED SERVICES		
Desc: LEGAL SERV: BURLIBGTON COMM CONTRAC	Acct: 10-221-318-0000		CONTRACTED SERVICES		
Vendor Total:			1,098.71	0.00	1,098.71

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Detail: Invoice No.	Invoice Description	Cross Fund	Invoice Amt	Disc. Amt	Net Amt.
031875	MOTOROLA SOLUTIONS, INC	MOTOROLA SOLUTIONS, INC	6/25/2021		73135
8281182183	2 AUDIO ACCESORY-REMOTE SPEAKI	0.00	\$785.48	0.00	785.48
Desc:	2 AUDIO ACCESORY-REMOTE SPEAKER	Acct: 10-221-320-0100	EQUIP OPERATION-COMMUNICATION		
Vendor Total:			785.48	0.00	785.48
031920	MUDGETT, JENNETT & KROGH-WISNER, PC		6/25/2021		73136
111454	WHO Consulting/Accounting&Reporting	0.00	\$1,605.00	0.00	1,605.00
Desc:	WHO Consulting/Accounting&Reporting	Acct: 10-171-318-0000	CONTRACTED SERVICES		
111491	FYE 2021 Audit Services thru 06.11	0.00	\$7,500.00	0.00	7,500.00
Desc:	FYE 2021 Audit Services thru 06.11	Acct: 10-173-318-0000	CONTRACTED SERVICES		
Vendor Total:			9,105.00	0.00	9,105.00
031955	MUNICIPAL EMERGENCY SERVICES,INC	MUNICIPAL EMERGENCY SERVICES,INC	6/25/2021		73137
IN1587910	LADDER TRUCK EQUIPMENT	0.00	\$1,831.00	0.00	1,831.00
Desc:	LADDER TRUCK EQUIPMENT	Acct: 10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
IN1585604	FF UNIFORMS	0.00	\$333.81	0.00	333.81
Desc:	FF UNIFORMS	Acct: 10-221-326-0000	PURCHASE/RENTAL UNIFORMS		
Vendor Total:			2,164.81	0.00	2,164.81
032125	NADEAU, DAWNA	DAWNA NADEAU	6/25/2021		73138
PO#9009	HRA reimbursment from closed acct f	0.00	\$78.21	0.00	78.21
Desc:	HRA reimbursment from closed acct f	Acct: 10-171-225-0000	HRA/CHOICECARE CARD		
Vendor Total:			78.21	0.00	78.21
033400	NEW ENGLAND INSTRUMENT		6/25/2021		73139
24464	Calibrate flow meters	1,195.00	\$1,195.00	0.00	1,195.00
Desc:	Calibrate flow meters	Acct: 65-963-318-0000	CONTRACTED SERVICES		
Vendor Total:			1,195.00	0.00	1,195.00
034925	NORTHEAST RESOURCE RECOVERY ASSC		6/25/2021		73140
79640	GLASS CLEAN/HAULING FEES	457.91	\$457.91	0.00	457.91
Desc:	GLASS CLEAN/HAULING FEES	Acct: 30-971-318-0000	CONTRACTED SERVICES		
Vendor Total:			457.91	0.00	457.91
035050	NORTHERN NURSERIES INC		6/25/2021		73141
83441	Clean up of fallen tree @ Kilowatt	0.00	\$450.00	0.00	450.00
Desc:	Clean up of fallen tree @ Kilowatt	Acct: 10-521-318-0000	CONTRACTED SERVICES		
41470	Maxfield athletic field supplies	0.00	\$46.00	0.00	46.00
Desc:	Maxfield athletic field supplies	Acct: 10-527-323-0000	MATERIAL & SUPPLIES		
36965	Turfce	0.00	\$175.00	0.00	175.00
Desc:	Turfce	Acct: 10-527-323-0000	MATERIAL & SUPPLIES		
38977	5 RHODODENDRON	345.00	\$345.00	0.00	345.00
Desc:	5 RHODODENDRON	Acct: 65-964-321-0200	REPAIRS & MAINT-MAINS & APPUR		
Vendor Total:			1,016.00	0.00	1,016.00
035301	NORTHSTAR FIREWORKS CO		6/25/2021		73142
2021	FIREWORKS 07.04.2021	0.00	\$7,700.00	0.00	7,700.00

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	Desc: FIREWORKS 07.04.2021	Acct: 10-516-318-0000	CONTRACTED SERVICES		
	Vendor Total:		7,700.00	0.00	7,700.00
035360	NOTT'S EXCAVATING INC		6/25/2021		73143
4349	Replace sidewalk on Christian Str	0.00	\$9,198.00	0.00	9,198.00
	Desc: Replace sidewalk on Christian Str	Acct: 10-316-318-0000	CONTRACTED SERVICES		
	Vendor Total:		9,198.00	0.00	9,198.00
036005	OLDCASTLE ARCHITECTURAL	OLDCASTLE ARCHITECTURAL	6/25/2021		73144
421744094	MORTAR	0.00	\$28.65	0.00	28.65
	Desc: MORTAR	Acct: 10-311-323-0000	MATERIAL & SUPPLIES		
	Vendor Total:		28.65	0.00	28.65
036165	OSBORN, MATTHEW	MATTHEW J. OSBORN	6/25/2021		73145
2021 APA	Reimbursment for FY21 Membership	0.00	\$390.00	0.00	390.00
	Desc: Reimbursment for FY21 Membership	Acct: 10-622-313-0000	MEMBERSHIP DUES		
	Vendor Total:		390.00	0.00	390.00
036230	OVERHEAD DOOR OF RUTLAND, INC		6/25/2021		73146
36887	DOOR REPAIRS	0.00	\$1,250.00	0.00	1,250.00
	Desc: DOOR REPAIRS	Acct: 10-221-321-0100	REPAIRS & MAINT-BUILDING		
	Vendor Total:		1,250.00	0.00	1,250.00
036695	PARRO'S GUN SHOP & POLICE		6/25/2021		73147
184966	POINT BLANK GUARDIAN	0.00	\$249.00	0.00	249.00
	Desc: POINT BLANK GUARDIAN	Acct: 10-211-315-0000	RECRUITMENT & TRAINING		
	Vendor Total:		249.00	0.00	249.00
037276	PETE'S TIRE BARNS, INC		6/25/2021		73148
268024	TIRE REPAIR	31.00	\$31.00	0.00	31.00
	Desc: TIRE REPAIR	Acct: 65-963-321-0000	REPAIRS & MAINT-VEHICLES		
268069	E1 TIRES	0.00	\$3,333.32	0.00	3,333.32
	Desc: E1 TIRES	Acct: 10-221-321-0000	REPAIRS & MAINT-VEHICLES		
	Vendor Total:		3,364.32	0.00	3,364.32
037450	PIKE INDUSTRIES INC		6/25/2021		73149
1135404	STONE	0.00	\$195.97	0.00	195.97
	Desc: STONE	Acct: 10-311-323-0000	MATERIAL & SUPPLIES		
	Vendor Total:		195.97	0.00	195.97
037555	PNC EQUIPMENT FINANCE, LLC		6/25/2021		73150
2021	1/5 Lease of Toro Groomer	0.00	\$5,479.00	0.00	5,479.00
	Desc: 1/5 Lease of Toro Groomer	Acct: 10-527-331-0000	DEPARTMENT EQUIPMENT		
	Vendor Total:		5,479.00	0.00	5,479.00
037670	FERGUSON ENTERPRISES INC #3326	FERGUSON ENTERPRISES INC #3326	6/25/2021		73151
1022343	Materials needed for West Gilson	2,888.94	\$2,888.94	0.00	2,888.94

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	Desc:	Materials needed for West Gilson	Acct: 55-954-321-0200	REPAIRS & MAINT-MAINS & APPUR		
	Vendor Total:			2,888.94	0.00	2,888.94
038188	LL POTWIN SERVICES			6/25/2021	73152	
7562	MOWING MAY 2021		0.00	\$1,835.00	0.00	1,835.00
	Desc:	May mowing Invoice	Acct: 10-311-318-0000	CONTRACTED SERVICES		
	Desc:	May Mowing Bugbee Senior Center	Acct: 10-421-318-0000	CONTRACTED SERVICES		
7579	CLEANING SERVICES 06.24.2021		0.00	\$375.00	0.00	375.00
	Desc:	CLEANING SERVICES 06.24.2021	Acct: 10-524-318-0000	CONTRACTED SERVICES		
	Vendor Total:			2,210.00	0.00	2,210.00
039992	REVIZE LLC			6/25/2021	73153	
11872-B	TOWN WEBSITE REFRESH		0.00	\$4,800.00	0.00	4,800.00
	Desc:	TOWN WEBSITE REFRESH	Acct: 10-622-312-0100	MARKETING PROMOTION		
11872-A	TOWN WEBSITE REFRESH		0.00	\$5,000.00	0.00	5,000.00
	Desc:	TOWN WEBSITE REFRESH	Acct: 10-622-312-0100	MARKETING PROMOTION		
	Vendor Total:			9,800.00	0.00	9,800.00
039994	REXEL USA, INC.		REXEL	6/25/2021	73154	
S130472841.003	RETURN PARTS		0.00	\$-4.25	0.00	-4.25
	Desc:	RETURN PARTS	Acct: 10-321-321-0000	REPAIRS & MAINT-VEHICLES		
S130993225.001	MATERIALS		0.00	\$83.70	0.00	83.70
	Desc:	MATERIALS	Acct: 10-221-321-0100	REPAIRS & MAINT-BUILDING		
S130826479.001	PARTS		0.00	\$51.81	0.00	51.81
	Desc:	PARTS	Acct: 10-321-321-0100	REPAIRS & MAINT-BUILDING		
	Vendor Total:			131.26	0.00	131.26
040375	RICKER, ALLYN		ALLYN RICKER	6/25/2021	73155	
JUN'21	REIMBURSEMENT		0.00	\$626.16	0.00	626.16
	Desc:	Ret Reimburs June 21	Acct: 10-325-418-0100	RETIREE HEALTH INSURANCE		
	Desc:	Ret Spouse Reimburs June 21	Acct: 10-325-418-0100	RETIREE HEALTH INSURANCE		
	Vendor Total:			626.16	0.00	626.16
040490	RITLAND, THOMAS		THOMAS RITLAND	6/25/2021	73156	
JUN'21	Ret and spouse June 2021 reimbursem		0.00	\$687.70	0.00	687.70
	Desc:	Ret and spouse June 2021 reimbursem	Acct: 10-221-418-0100	RETIREE HEALTH INSURANCE		
	Vendor Total:			687.70	0.00	687.70
042702	JOHNSON CONTROLS FIRE PROTECTION L		JOHNSON CONTROLS FIRE PROTECTION LP	6/25/2021	73157	
87836066	EXTINGUISHER INSP		118.00	\$118.00	0.00	118.00
	Desc:	EXTINGUISHER INSP	Acct: 30-971-318-0000	CONTRACTED SERVICES		
87831070	INSPECTIONS		330.00	\$330.00	0.00	330.00
	Desc:	INSPECTIONS	Acct: 30-971-318-0000	CONTRACTED SERVICES		
	Vendor Total:			448.00	0.00	448.00
043590	SPENCER POWERS SERVICES LLC			6/25/2021	73158	
627	PARK CLEAN UP - SPRING/SUMMER		0.00	\$3,750.00	0.00	3,750.00
	Desc:	PARK CLEAN UP - SPRING/SUMMER	Acct: 10-521-318-0000	CONTRACTED SERVICES		

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Vendor Total:			3,750.00	0.00	3,750.00
044906	SWANK MOTION PICTURES, INC		6/25/2021		73159
DB3029514	DVD - THE CROODS	0.00	\$450.00	0.00	450.00
Desc:	DVD - THE CROODS	Acct: 10-516-318-0000	CONTRACTED SERVICES		
Vendor Total:			450.00	0.00	450.00
045528	TEXAS REFINERY CORP		6/25/2021		73160
221476	GREASE	365.50	\$365.50	0.00	365.50
Desc:	GREASE	Acct: 60-961-320-0100	EQUIP OPERATION/MAINT-GENERAL		
Vendor Total:			365.50	0.00	365.50
046035	TMDE CALIBRATION LABS INC		6/25/2021		73161
42103	T/S RADAR CALIBRATION	0.00	\$1,050.00	0.00	1,050.00
Desc:	T/S RADAR CALIBRATION	Acct: 10-211-320-0000	EQUIP OPERATION/MAINT-OFFICE		
Vendor Total:			1,050.00	0.00	1,050.00
046170	TOP STITCH EMBROIDERY INC		6/25/2021		73162
399490	UNIFORM TSHIRTS, SHORTS	0.00	\$1,620.95	0.00	1,620.95
Desc:	UNIFORM TSHIRTS, SHORTS	Acct: 10-221-326-0000	PURCHASE/RENTAL UNIFORMS		
Vendor Total:			1,620.95	0.00	1,620.95
046950	TWIN STATE SAND AND GRAVEL CO		6/25/2021		73163
99110	LOAM	0.00	\$108.34	0.00	108.34
Desc:	LOAM	Acct: 10-221-321-0100	REPAIRS & MAINT-BUILDING		
99111-1	GRAVEL	0.00	\$544.19	0.00	544.19
Desc:	GRAVEL	Acct: 10-312-323-0000	MATERIAL & SUPPLIES		
99111-2	LOAM	729.73	\$729.73	0.00	729.73
Desc:	Loam for mill run pump station	Acct: 65-964-321-0200	REPAIRS & MAINT-MAINS & APPUR		
Vendor Total:			1,382.26	0.00	1,382.26
047190	USA BLUEBOOK	USA BLUEBOOK	6/25/2021		73164
628752	Filter membranes and absorbent pads	525.40	\$525.40	0.00	525.40
Desc:	Filter membranes and absorbent pads	Acct: 60-961-323-0000	MATERIAL & SUPPLIES		
Vendor Total:			525.40	0.00	525.40
048185	VALLEY IMAGING & AWARDS		6/25/2021		73165
20959	6700 - 2020 Water Quality Report	1,928.50	\$1,928.50	0.00	1,928.50
Desc:	6700 - 2020 Water Quality Report	Acct: 50-954-318-0000	CONTRACTED SERVICES		
Desc:	6700 - 2020 Water Quality Report	Acct: 55-954-318-0000	CONTRACTED SERVICES		
Vendor Total:			1,928.50	0.00	1,928.50
048249	VALLEY NEWS	VALLEY NEWS	6/25/2021		73166
2021-2022	52 WEEKS SUBSCRIPTION	0.00	\$260.00	0.00	260.00
Desc:	52 WEEKS SUBSCRIPTION	Acct: 10-121-314-0000	BOOKS & PERIODICALS		
Vendor Total:			260.00	0.00	260.00

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048300	VALLEY NEWS		VALLEY NEWS		6/25/2021	73167
	125911,131746	AD#131746 NOTICE - GRIEVANCE	0.00	\$107.10	0.00	107.10
	Desc:	AD#131746 NOTICE - GRIEVANCE	Acct: 10-174-312-0000	ADVERTISING		
	125977,134673	AD#134673 TIMBER SALE RFP & PRE E	0.00	\$96.80	0.00	96.80
	Desc:	AD#134673 TIMBER SALE RFP & PRE BID	Acct: 10-611-313-0000	MEMBERSHIP DUES		
	125911,139731	AD#139731 SB AGENDA 06.29.21	0.00	\$210.80	0.00	210.80
	Desc:	AD#139731 SB AGENDA 06.29.21	Acct: 10-111-312-0000	ADVERTISING		
	Vendor Total:			414.70	0.00	414.70
048310	VALLEY TURF SERVICES				6/25/2021	73168
	1107	Field Maintenance Services Maxfield	0.00	\$11,550.00	0.00	11,550.00
	Desc:	Field Maintenance Services Maxfield	Acct: 10-527-318-0000	CONTRACTED SERVICES		
	Vendor Total:			11,550.00	0.00	11,550.00
048575	VERIZON WIRELESS				6/25/2021	73169
	9880925318	VERIZON BROADBAND - MAY 2021	0.00	\$1,579.13	0.00	1,579.13
	Desc:	VERIZON BROADBAND - MAY 2021	Acct: 10-221-324-0000	TELEPHONE		
	Desc:	VERIZON BROADBAND - MAY 2021	Acct: 10-211-320-0100	EQUIP OPERATION/COMMUNICATION		
	Desc:	VERIZON BROADBAND - MAY 2021WINDSOR	Acct: 10-005-100-0000	DUE FROM OTHER GOVERNMENTS		
	Desc:	VERIZON BROADBAND - MAY 2021NORWICH	Acct: 10-005-100-0000	DUE FROM OTHER GOVERNMENTS		
	Vendor Total:			1,579.13	0.00	1,579.13
048600	VERMONT AGENCY OF TRANSPORTATION				6/25/2021	73170
	BO 1444 060 MAY'21	VA CUTOFF BRIDGE MAY'21 X01635 (	0.00	\$975.42	0.00	975.42
	Desc:	VA CUTOFF BRIDGE MAY'21 X01635 01	Acct: 10-313-318-0000	CONTRACTED SERVICES		
	Vendor Total:			975.42	0.00	975.42
049649	VERMONT DEPT OF PUBLIC SAFETY		VERMONT DEPT OF PUBLIC SAFETY		6/25/2021	73171
	82859	FINGERPRINTS	0.00	\$26.50	0.00	26.50
	Desc:	FINGERPRINTS	Acct: 10-221-315-0000	RECRUITMENT & TRAINING		
	Vendor Total:			26.50	0.00	26.50
050250	VERMONT LEAGUE OF CITIES AND TOWNS		VLCT PACIF		6/25/2021	73172
	P2852021 E9	2021 KIA RENTAL INSURANCE	0.00	\$327.00	0.00	327.00
	Desc:	2021 KIA RENTAL	Acct: 10-211-418-0503	Insurance Related Expense - REIMB		
	P2852021 E2	MUSCO LIGHTING SYSTEM	0.00	\$95.00	0.00	95.00
	Desc:	MUSCO LIGHTING SYSTEM	Acct: 10-528-418-0000	PROPERTY & LIABILITY INSURANCE		
	P2852021 E3	2020 CHEVY SILVERADO 3500	541.00	\$541.00	0.00	541.00
	Desc:	2020 CHEVY SILVERADO 3500	Acct: 50-955-418-0000	PROPERTY & LIABILITY INS		
	P2852021 E8	2021 DURA BULL TRAILER 1D9D7EC12	0.00	\$31.00	0.00	31.00
	Desc:	2021 DURA BULL TRAILER 1D9D7EC12MN8	Acct: 10-325-418-0000	PROPERTY & LIABILITY INSURANCE		
	P2852021 E1	2021 BWISE TRAILER&2020 DOOSAN E	596.00	\$596.00	0.00	596.00
	Desc:	2021 BWISE TRAILER&2020 DOOSAN EXCA	Acct: 50-955-418-0000	PROPERTY & LIABILITY INS		
	Vendor Total:			1,590.00	0.00	1,590.00
050251	VERMONT LEAGUE OF CITIES AND TOWNS		VLCT PROPERTY & CASUALTY		6/25/2021	73173
	INT202133057	Calendar Year 2020 Work Comp Close	800.00	\$5,921.35	0.00	5,921.35

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		Desc: PACIF & Member Exp Mod and Contribu	Acct: 10-311-250-0000	WORKERS COMP		
		Desc: PACIF & Member Exp Mod and Contribu	Acct: 10-312-250-0000	WORKERS COMP		
		Desc: PACIF & Member Exp Mod and Contribu	Acct: 10-221-250-0000	WORKERS COMP		
		Desc: PACIF & Member Exp Mod and Contribu	Acct: 10-211-250-0000	WORKERS COMP		
		Desc: PACIF & Member Exp Mod and Contribu	Acct: 10-514-250-0000	WORKERS COMP		
		Desc: PACIF & Member Exp Mod and Contribu	Acct: 50-954-250-0000	WORKERS COMP		
		Desc: PACIF & Member Exp Mod and Contribu	Acct: 55-955-250-0000	WORKERS COMP		
		Desc: PACIF & Member Exp Mod and Contribu	Acct: 60-965-250-0000	WORKERS COMP		
		Desc: PACIF & Member Exp Mod and Contribu	Acct: 65-965-250-0000	WORKERS COMP		
		Vendor Total:		5,921.35	0.00	5,921.35
050455	VERMONT LIFE SAFETY LLC				6/25/2021	73174
	42023	DOOR ACCESS CONTROL SYS-PUB S/	0.00	\$5,788.00	0.00	5,788.00
		Desc: DOOR ACCESS CONTROL SYS-DIS	Acct: 10-271-331-0000	DEPARTMENT EQUIPMENT		
		Desc: DOOR ACCESS CONTROL SYS-PD	Acct: 10-211-330-0000	OFFICE EQUIPMENT		
		Desc: DOOR ACCESS CONTROL SYS-FD	Acct: 10-221-331-0400	ALARM SYSTEM/EXTINGUISHER MAINT		
	42022	DOOR ACCESS CONTROL SYS - TH	0.00	\$3,739.60	0.00	3,739.60
		Desc: DOOR ACCESS CONTROL SYS - TH	Acct: 10-181-318-0000	CONTRACTED SERVICES		
		Vendor Total:		9,527.60	0.00	9,527.60
052326	WEED PRECAST, LLC				6/25/2021	73175
	6123	Culvert for Old Quechee Road	0.00	\$1,589.24	0.00	1,589.24
		Desc: Culvert for Old Quechee Road	Acct: 10-311-323-0000	MATERIAL & SUPPLIES		
	6203	MATERIALS	0.00	\$403.65	0.00	403.65
		Desc: MATERIALS	Acct: 10-311-323-0000	MATERIAL & SUPPLIES		
	6173	PARTS/MATERIALS	320.00	\$320.00	0.00	320.00
		Desc: PARTS/MATERIALS	Acct: 65-964-321-0200	REPAIRS & MAINT-MAINS & APPUR		
	6159	Catch Basin for Maple Street	0.00	\$525.00	0.00	525.00
		Desc: Catch Basin for Maple Street	Acct: 10-311-323-0000	MATERIAL & SUPPLIES		
	6096	PARTS/MATERIALS	0.00	\$358.65	0.00	358.65
		Desc: PARTS/MATERIALS	Acct: 10-311-323-0000	MATERIAL & SUPPLIES		
		Vendor Total:		3,196.54	0.00	3,196.54
053150	SWISH WHITE RIVER LTD				6/25/2021	73176
	W439542	SANITIZER - COVID	0.00	\$77.88	0.00	77.88
		Desc: SANITIZER - COVID	Acct: 10-221-417-0017	EXTRAORDINARY EXP - COVID-19		
	W440090	CLEANING SUPPLIES	0.00	\$43.47	0.00	43.47
		Desc: CLEANING SUPPLIES	Acct: 10-421-323-0000	MATERIAL & SUPPLIES		
	W440394	Camp Cleaning Supplies	0.00	\$167.30	0.00	167.30
		Desc: Camp Cleaning Supplies	Acct: 10-514-323-0000	MATERIAL & SUPPLIES		
	W439393	GLOVES	0.00	\$266.00	0.00	266.00
		Desc: GLOVES	Acct: 10-161-318-0000	CONTRACTED SERVICES		
	W439304	Camp Cleaning Supplies	0.00	\$884.10	0.00	884.10
		Desc: Camp Cleaning Supplies	Acct: 10-514-323-0000	MATERIAL & SUPPLIES		
	W438549	CLEANING PRODUCTS	0.00	\$373.83	0.00	373.83
		Desc: CLEANING PRODUCTS	Acct: 10-221-323-0000	MATERIAL & SUPPLIES		
		Vendor Total:		1,812.58	0.00	1,812.58

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Vendor ID	Vendor Name		Payee Name	Check Date	Check No.	
Detail: Invoice No.	Invoice Description		Cross Fund	Invoice Amt	Disc. Amt	Net Amt.
053175	WHITE RIVER PARTNERSHIP INC			6/25/2021		73177
2021	Annual membership - FY21		0.00	\$100.00	0.00	100.00
Desc:	Annual membership - FY21	Acct:	10-611-313-0000	MEMBERSHIP DUES		
	Vendor Total:			100.00	0.00	100.00
053650	WILSON TIRE INC			6/25/2021		73178
508309	TIRES - PD2		0.00	\$681.84	0.00	681.84
Desc:	TIRES - PD2	Acct:	10-211-321-0000	REPAIRS & MAINT-VEHICLES		
	Vendor Total:			681.84	0.00	681.84
054150	WISDOM & POWER LLC			6/25/2021		73179
MAY'21	SOLAR ARAY MAY 2021		1,965.11	\$1,965.11	0.00	1,965.11
Desc:	SOLAR ARAY MAY 2021	Acct:	50-952-329-0000	ELECTRICITY		
JUN'21	SOLAR ARAY JUNE2021		1,965.11	\$1,965.11	0.00	1,965.11
Desc:	SOLAR ARAY JUNE2021	Acct:	50-952-329-0000	ELECTRICITY		
	Vendor Total:			3,930.22	0.00	3,930.22
054160	WITMER PUBLIC SAFETY, INC			6/25/2021		73180
2107664	BOOTS		0.00	\$308.65	0.00	308.65
Desc:	BOOTS	Acct:	10-221-326-0000	PURCHASE/RENTAL UNIFORMS		
2131195.001	FF EQUIPMENT		0.00	\$390.00	0.00	390.00
Desc:	FF EQUIPMENT	Acct:	10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
Desc:	FF EQUIPMENT	Acct:	10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
2131195.002	GLOVES & GEAR BAG		0.00	\$657.72	0.00	657.72
Desc:	GLOVES & GEAR BAG	Acct:	10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
2134017	HELMET MONTMINY		0.00	\$844.90	0.00	844.90
Desc:	HELMET MONTMINY	Acct:	10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
2117694	BOOTS		0.00	\$120.92	0.00	120.92
Desc:	BOOTS	Acct:	10-221-326-0000	PURCHASE/RENTAL UNIFORMS		
2127627	BOOTS		0.00	\$488.94	0.00	488.94
Desc:	BOOTS	Acct:	10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
2131195	FF EQUIPMENT		0.00	\$3,458.47	0.00	3,458.47
Desc:	FF EQUIPMENT	Acct:	10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
CR2121599	RETURNED BOOTS		0.00	\$-449.68	0.00	-449.68
Desc:	RETURNED BOOTS	Acct:	10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
2121599.001	HELMETS SHIELDS		0.00	\$78.00	0.00	78.00
Desc:	HELMET SHIELDS	Acct:	10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
2121599	FF BOOTS		0.00	\$917.79	0.00	917.79
Desc:	FF BOOTS	Acct:	10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
2008489	HOSE STRAP		0.00	\$320.91	0.00	320.91
Desc:	HOSE STRAP	Acct:	10-221-331-0100	FIRE SUPPRESSION EQUIPMENT		
	Vendor Total:			7,136.62	0.00	7,136.62
059810	FERNANDES, SEAN	SEAN FERNANDES		6/25/2021		73181
06.11.2021	REIMBURSE CLOTHING ALLOWANCE-		0.00	\$66.72	0.00	66.72
Desc:	REIMBURSE CLOTHING ALLOWANCE-BELT	Acct:	10-211-326-0000	PURCHASE UNIFORMS & CLEANING		
	Vendor Total:			66.72	0.00	66.72

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Bank ID	Bank Name	Payee Name	Check Date	Check No.	
Vendor ID	Vendor Name				
Detail: Invoice No.	Invoice Description	Cross Fund	Invoice Amt	Disc. Amt	Net Amt.
059882	CARY, SANDRA	SANDRA CARY	6/25/2021		73182
2021-14	VINS/BILLINGSFARM/AMAZON/DEMCO	0.00	\$1,103.32	0.00	1,103.32
Desc:	VINS/BILLINGSFARM/AMAZON/DEMCO	Acct: 10-712-316-0500	APPROP - W. HARTFORD LIBRARY		
Vendor Total:			1,103.32	0.00	1,103.32
060110	NATIONAL BUSSINESS TECHNOLOGIES LLC		6/25/2021		73183
IN425940	METER - COPIER - MAY 2021 FD	0.00	\$35.18	0.00	35.18
Desc:	METER - COPIER - MAY 2021 FD	Acct: 10-221-320-0000	EQUIP OPERATION/MAINT-OFFICE		
Vendor Total:			35.18	0.00	35.18
060124	GREEN MAPLE, LLC	GREEN MAPLE, LLC	6/25/2021		73184
741172	SOLAR ARRAY - MAR'21	3,393.40	\$14,440.00	0.00	14,440.00
Desc:	SOLAR ARRAY - MAR'21 - WABA	Acct: 10-530-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAR'21 - FD	Acct: 10-221-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAR'21 - PD	Acct: 10-211-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAR'21 - DIS	Acct: 10-271-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAR'21 - LAKE PINNEO	Acct: 55-953-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAR'21 - DEPOT ST	Acct: 60-962-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAR'21 - BUGBEE	Acct: 10-421-329-0000	ELECTRICITY / GAS		
Desc:	SOLAR ARRAY - MAR'21 - SOLID WASTE	Acct: 30-971-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAR'21 - HIGH STREET	Acct: 65-964-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAR'21 - TH	Acct: 10-161-329-0000	ELECTRICITY		
796162	SOLAR ARRAY - MAY'21	4,114.49	\$17,508.50	0.00	17,508.50
Desc:	SOLAR ARRAY - MAY'21 - TH	Acct: 10-161-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAY'21 - WABA	Acct: 10-530-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAY'21 - FD	Acct: 10-221-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAY'21 - PD	Acct: 10-211-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAY'21 - DIS	Acct: 10-271-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAY'21 - LAKE PINENO	Acct: 55-953-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAY'21 - DEPOT ST	Acct: 60-962-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAY'21 - BUGBEE	Acct: 10-421-329-0000	ELECTRICITY / GAS		
Desc:	SOLAR ARRAY - MAY'21 - SOLID WASTE	Acct: 30-971-329-0000	ELECTRICITY		
Desc:	SOLAR ARRAY - MAY'21 - HIGH ST	Acct: 65-964-329-0000	ELECTRICITY		
Vendor Total:			31,948.50	0.00	31,948.50
500504	CARBONNEAU, DAWN & ALBERT	DAWN CARBONNEAU	6/25/2021		73185
848418	REFUND-TEEN ADVENTURE	0.00	\$35.00	0.00	35.00
Desc:	REFUND-TEEN ADVENTURE	Acct: 10-514-325-0000	REFUNDS		
Vendor Total:			35.00	0.00	35.00
500660	JP PEST SERVICE		6/25/2021		73186
2947348	CONTRACT - JUNE 2021	0.00	\$81.50	0.00	81.50
Desc:	CONTRACT - JUNE 2021	Acct: 10-161-321-0000	REPAIRS & MAINT		
Vendor Total:			81.50	0.00	81.50
500894	SECURSHRED	SECURSHRED	6/25/2021		73187
365369	SHREDDING SERVICES	0.00	\$22.00	0.00	22.00
Desc:	SHREDDING SERVICES	Acct: 10-161-318-0000	CONTRACTED SERVICES		

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Vendor ID	Vendor Name				
Detail: Invoice No.	Invoice Description	Cross Fund	Invoice Amt	Disc. Amt	Net Amt.
Vendor Total:			22.00	0.00	22.00
502260	HALL, AMY	AMY HALL	6/25/2021		73188
848405	REFUND - CAMP VENTURES	0.00	\$150.00	0.00	150.00
Desc:	REFUND - CAMP VENTURES	Acct: 10-514-325-0000	REFUNDS		
Vendor Total:			150.00	0.00	150.00
502559	ARGYROS, AARON	AARON ARGYROS	6/25/2021		73189
848425	REFUND - CAMP VENTURES	0.00	\$87.50	0.00	87.50
Desc:	REFUND - CAMP VENTURES	Acct: 10-514-325-0000	REFUNDS		
848441	REFUND - CAMP VENTURES	0.00	\$415.00	0.00	415.00
Desc:	REFUND - CAMP VENTURES	Acct: 10-514-325-0000	REFUNDS		
Vendor Total:			502.50	0.00	502.50
502619	POLK, BETHANY	BETHANY POLK	6/25/2021		73190
848432	REFUND - CAMP	0.00	\$570.00	0.00	570.00
Desc:	REFUND - CAMP	Acct: 10-514-325-0000	REFUNDS		
Vendor Total:			570.00	0.00	570.00
502717	SATURLEY, AIDAN	AIDAN SATURLEY	6/25/2021		73191
PO#9018	UVAC membership 2021	209.00	\$209.00	0.00	209.00
Desc:	UVAC membership 2021	Acct: 65-963-313-0000	MEMBERSHIP DUES		
Vendor Total:			209.00	0.00	209.00
502739	RESTORATION PAINTING LLC		6/25/2021		73192
PO#9030	REFUND	10.35	\$10.35	0.00	10.35
Desc:	Refund	Acct: 30-971-325-0000	REFUNDS		
Vendor Total:			10.35	0.00	10.35
502740	GRANOLA ENGINEERING		6/25/2021		73193
06.10.2021	REFUND	23.32	\$23.32	0.00	23.32
Desc:	Refund	Acct: 30-971-325-0000	REFUNDS		
Vendor Total:			23.32	0.00	23.32
502741	PETER SMALL PROPERTY MAINT		6/25/2021		73194
PO#9032	REFUND	11.18	\$11.18	0.00	11.18
Desc:	Refund comercial account	Acct: 30-971-325-0000	REFUNDS		
Vendor Total:			11.18	0.00	11.18
FUND 1 0	HRA / FSA / DCR	Bank Total:		3,368,646.65	
FUND 1 0 HRA	HRA / FSA / DCR				
032103	MVP HEALTH - HRA / DCRA		6/25/2021		1011
06.15.2021	FSA/HRA 06.07.2021-06.12.2021	814.56	\$3,954.52	0.00	3,954.52
Desc:	FSA 06.07.2021-06.12.2021	Acct: 10-012-200-0510	SECTION 125 HEALTH CARE ACCT		
Desc:	HRA 06.07.2021-06.12.2021	Acct: 10-311-225-0000	HRA/CHOICECARE CARD		
Desc:	HRA 06.07.2021-06.12.2021	Acct: 10-174-225-0000	HRA/CHOICECARE CARD		
Desc:	HRA 06.07.2021-06.12.2021	Acct: 10-211-225-0000	HRA/CHOICECARE CARD		

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Vendor ID	Vendor Name	Payee Name		Check Date	Check No.
Detail: Invoice No.	Invoice Description	Cross Fund	Invoice Amt	Disc. Amt	Net Amt.
	Desc: HRA 06.07.2021-06.12.2021	Acct: 10-221-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.07.2021-06.12.2021	Acct: 10-221-418-0100	RETIREE HEALTH INSURANCE		
	Desc: HRA 06.07.2021-06.12.2021	Acct: 10-521-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.07.2021-06.12.2021	Acct: 10-622-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.07.2021-06.12.2021	Acct: 50-954-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.07.2021-06.12.2021	Acct: 50-955-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.07.2021-06.12.2021	Acct: 55-955-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.07.2021-06.12.2021	Acct: 60-965-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.07.2021-06.12.2021	Acct: 65-965-225-0000	HRA/CHOICECARE CARD		
06.22.2021	DCRA/FSA/HRA 06.14.2021-06.19.2021	317.12	\$2,713.67	0.00	2,713.67
	Desc: DCRA 06.14.2021-06.19.2021	Acct: 10-012-200-0520	SECTION 125 DEPENDENT CARE ACC		
	Desc: FSA 06.14.2021-06.19.2021	Acct: 10-012-200-0510	SECTION 125 HEALTH CARE ACCT		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 10-121-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 10-171-418-0100	RETIREE HEALTH INSURANCE		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 10-174-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 10-211-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 10-211-418-0100	RETIREE HEALTH INSURANCE		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 10-221-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 10-221-418-0100	RETIREE HEALTH INSURANCE		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 10-311-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 10-325-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 50-955-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 55-955-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 60-965-225-0000	HRA/CHOICECARE CARD		
	Desc: HRA 06.14.2021-06.19.2021	Acct: 65-965-225-0000	HRA/CHOICECARE CARD		
Vendor Total:			6,668.19	0.00	6,668.19
FUND 1 0 HRA			Bank Total:		6,668.19
Holdback Total					3,676,330.20
Batch Totals:		0.00	363,360.89	0.00	4,039,691.09

_____ DANIEL FRASER
_____ JOSEPH MAJOR
_____ KIM SOUZA
_____ DENNIS BROWN
_____ ALLY TUFENKJIAN

_____ TRACY YARLOTT-DAVIS
_____ GAIL OSTROUT
_____ JOHN J. CLERKIN