

**AGENDA
CHESHIRE ENERGY COMMISSION
MONDAY, APRIL 25, 2022, 7:00 PM
Via Zoom**

*Public access made available through live streaming on YouTube at
https://www.youtube.com/channel/UC4_xey3QjJmwe57R_6K94Dw*

*Public comments accepted at Comments@cheshirect.org and by voice mail message at 203 271-6638.
Video will be available on Channel 14 and on demand at www.cheshirect.org as soon as possible*

I. CALL TO ORDER

II. DETERMINATION OF QUORUM

III. PLEDGE OF ALLEGIANCE

IV. APPROVAL OF MINUTES

A. March 28, 2022

V. COMMUNICATIONS

VI. OLD BUSINESS

A. Energy Efficiency Projects

1. CHP at Cheshire Community Pool - current operating rate (utilization)
2. Bartlem Park concession stand – energy waste

B. Benchmarking

1. Energy Star Portfolio Manager – database input and maintenance

C. Publicity/Education/Outreach

1. News articles and letters to the editor
2. Outreach advertisement – Chris Smith
3. Life Cycle Costs – Dan Knudsen

D. Clean Energy

1. New municipal energy efficiency/cost savings opportunities
2. Opportunities for additional solar car ports or PV arrays, charging stations
3. Net-zero pilot program

E. PBC Projects

F. Grants, Rebates, & Utility Programs

1. Early involvement of Eversource in all town building projects
2. Spreadsheet of important dates – programs and grants

G. Energy Reliability Program

1. Update on tree trimming

H. Coalition for Sustainable Cheshire

1. Benchmark and Track Energy Use – information on Portfolio Manager for Silver Status for Sustainable CT
2. Communication with Amy Thompson of UCONN

I. School Modernization – resources for high performance schools

1. Discovery Elementary School, Arlington, VA -
<https://betterbuildingssolutioncenter.energy.gov/videos/building-brighter-futures-through-zero-energy-discovery-elementary-school>
2. Letter to BOE and Town Council – 4/19/22

VII. NEW BUSINESS

A. New commissioner appointment

**CHESHIRE ENERGY COMMISSION
MEETING MINUTES
MARCH 28, 2022 - VIRTUAL ZOOM**

I. CALL TO ORDER

Chairman Ogurick called the meeting to order at 7:06 PM.

II. DETERMINATION OF QUORUM

A quorum was present.

Commission Members Present:

Mr. Richard Ogurick (Chairman)
Mr. Dan Knudsen
Mr. Ryan O'Grady
Mr. David Gavin
Mr. Walter Gayeski

Staff Present: Mr. Daniel Bombero, Capital Projects Manager

III. PLEDGE OF ALLEGIANCE

All present pledged allegiance to the flag of the United States of America.

IV. APPROVAL OF MINUTES

A. February 28, 2022 - Meeting Minutes

MOTION by Mr. Knudsen to approve the Meeting Minutes from February 28, 2022 with the following corrections:

VI.,A.1 – Clarify that the cogeneration unit is not being “utilized at its maximum productivity level.”

VI.,A.1 – Change \$40.00 to \$40,000.

VI.,E.1 – Add that “there were no new updates to report.”

VI.,I. – Clarify that it was suggested that the Energy Commission meet with Town Council periodically to update them on matters of the commission rather than “15 minutes two (2) times each year.”

SECONDED by Mr. O'Grady

VOTE unanimous.

VI. COMMUNICATIONS

Chairman Ogurick shared the thank you note that he received on behalf of the Commission, from Matt Planeta, and his Den (Cub Scout Pack 114 – Highland School). Mr. Ogurick relayed that he will reach out to Mr. Planeta to see if his Den would be interested in briefing the Energy Commission on their energy problem and solution once

they complete their merit badge requirements.

VII. OLD BUSINESS

a. Energy Efficiency Projects

1. CHP at Cheshire Community Pool – current operating rate

Mr. Gavin shared that he contacted Aegis Energy and Pool Director, Sheila Adams to discuss the current operating rate of the cogeneration unit. The group discussed that when the small boiler goes out of service, the large boiler takes over and does not properly communicate with the cogeneration unit. This affects the efficiency of the unit. Mr. Gavin questioned how the pool maintenance is handled and Mr. Bombero shared that the pool is operated and maintained by pool staff under the Department of Recreation. Ms. Adams, Pool Director, has a full-time maintainer and has the ability to contract out any necessary maintenance work, when needed. The group discussed that Aegis is aware of the boiler issue at the facility. Chairman Ogurick and Mr. Gavin agreed to follow up with Ms. Adams and Mr. Gawlak to further discuss the matter.

2. Bartlem Park concession stand – energy waste

Mr. Bombero will convene with staff to discuss this item and provide updates to the group.

b. Benchmarking

1. Energy Star Portfolio Manager – database input and maintenance

Chairman Ogurick relayed an email from Mr. Smith who reports he is up to date with the database input.

2. New municipal energy efficiency/cost savings opportunities.

Mr. Gavin suggested the idea of a pilot program, whereby the Town could work with a company to encumber grant money, and work with companies such as Tesla, UCONN and other Engineers to make one of the Town buildings "net zero." Mr. Knudsen suggested that this could be done in concert with the School Modernization project ie.a "net zero" school. A discussion ensued.

c. Publicity/Education/Outreach

1. News articles and letters to the editor

The group agreed that it is their responsibility to educate the public about energy related issues. Mr. Knudsen shared a draft letter (attached) he constructed on behalf of the Commission entitled, "Lower Initial Construction Could Translate to Higher Taxes." Members provided feedback about the letter and Chairman Ogurick suggested that the letter be fact-checked before it is put out to the community. The group discussed that the

Cheshire Herald and Cheshire Forum would be good places to post the final draft of the letter and the timing of the publishing should be an important consideration. Chairman Ogurick stated that he would work with Mr. Knudsen to develop a final draft of the letter to share with the commission.

d. Clean Energy

1. Opportunities for additional solar car ports or PV Arrays, charging stations

This item was not discussed.

e. PBC Projects

1. Quinnipiac Park Bathroom renovation project

Mr. Bombero shared that one proposal was received on March 7, 2022 and no contract had been awarded to date.

f. Grants, Rebates & Utility Programs

1. Early Involvement of Eversource in all Town building projects

This item was not discussed

2. Spreadsheet of important dates – programs and grants

No new updates were reported for this item.

g. Energy Reliability Program

1. Update on tree trimming

Mr. Bombero shared that there is lots of good preventative maintenance being completed by Eversource. They have completed a large portion of the trimming on the east side of Route 10 working from north to south. They will be moving to the west side of Route 10 in the coming weeks.

h. Coalition for Sustainable Cheshire

1. Benchmark and Track Energy Use – information for Silver Status for Sustainable CT

Mr. Knudsen met with Ms. Pearson from Sustainable CT. He shared that the submission deadline for Sustainable CT to apply for Silver Status is August. A report, generated from the Portfolio Manager, is needed to apply for Silver Status. Mr. Ogurick agreed to talk to Professor Thompson at UCONN in order to generate the report. The group discussed the report generated by the town of Glastonbury, which was supplied as an example by Ms. Pearson. Mr. Knudsen also shared that Coalition for a Sustainable Cheshire will be

sponsoring a "Repair Cafe" event on April 9, 2022 from 10 am to 3:00 pm at the 559 South Main Street (Cheshire Recreation Building). Residents can bring in broken equipment such as a blower fan, and representatives from the organization will work to repair them. (parts must be provided by the resident).

i. **School Modernization – resources for high performance schools**

No new updates were provided.

VIII. **NEW BUSINESS**

a. **SB 423 Indoor Air Quality in Public School Classrooms**

Chairman Ogurick asked the group if anyone was familiar with Senate Bill 423 and the group had a brief discussion about the importance of ventilation and indoor air quality.

b. **Replacing Single-Speed Pool Pumps with Variable Speed Pumps for Energy Savings- <https://www.nerej.gov/docs/fy12osti/54242.pdf>**

Chairman Ogurick shared an article about variable speed pumps. Dan Knudsen shared that he thought it would be a good idea to reach out to private pool owners to let them know about replacing single-speed pool pumps with variable speed pumps for better energy efficiency and a group discussion ensued.

IX. **ADJOURNMENT**

A motion to adjourn was made by Mr. O'Grady, seconded by Mr. and the meeting was adjourned at 8:09 PM.

ATTEST



Anne McBain, Acting Secretary

DRAFT

Lower Initial Construction Could Translate to Higher Taxes

As Cheshire residents may be aware, the town has been making a School Modernization plan that will involve a referendum for resident approval of this significant investment. Cheshire's Energy Commission, a commission staffed by appointed volunteers, wants to ensure that the planning for these modernizations take a close look at the operational energy costs that our tax dollars will be committed to paying for the foreseeable future. A good way to think about a long term investment such as this is to consider its Life Cycle Cost.

Life Cycle Cost is the total cost of ownership over the life of an asset. So while one may think that our taxes may be less if we go with the cheapest design and the lowest bid, the opposite may be more likely. The operational and maintenance cost of a building over a 30 year period could easily total three times that initial construction cost. Energy consumption represents the second highest operational expense to schools, second only to salaries. Each year, a significant portion of taxpayer dollars are spent on school utility expenses. A handful of CT towns have recently built zero energy schools which can use between 65%–80% less energy than conventionally constructed schools, and the remaining energy required is supplied by renewable energy. The expense of the energy upgrades that might increase the initial construction cost can often be paid back through energy savings in a matter of a few years and then save the town money for 20 or more years, thereby reducing residents' property taxes.

Some energy upgrades the town should carefully consider are:

Heating and cooling with ground source heat pumps which is one of the most efficient heating and cooling methods.

Consider solar panels on the roof in the construction phase, high efficient heat recovery on the ventilation system, LED lighting, high R-value insulation and highly rated windows

There are many practical design decisions that can have large operational cost impacts at no extra cost such as: not having excessive glass surfaces that might look modern from the outside but not be necessary for interior lighting and cause large heat losses and difficulty cleaning.

Lighting should be accessible by a ladder and not require special equipment for maintenance.

Light should be on timers like the ones in some of our school parking lots that keep us from running light at their full brightness when it is not necessary.

Reducing heating/cooling and lighting costs will have the added benefit of making the town less vulnerable to the extreme economic pain caused by energy price spikes that likely will occur at some point in the next 30 years. We will also be taking the environmentally responsible path by reducing our greenhouse gas output. It is thought that the future will trend swiftly toward electrification of heating systems. We don't want to build something now that will be obsolete in 5 years.

Thank you for your time considering these issues which are both important to our quality of life and cost of living.

Cheshire Energy Commission

7.1 Benchmark and Track Energy Use

5 Points

10 Points

Action Updates

This action has been revised for the **current certification cycle**. A version of this action from the prior program year is available for comparison. Edits are highlighted in yellow. (Last updated 2020)

Objective

Identify your municipality's energy use and track it over time, noting both your achievements and areas for improvement.

What to Do

The more you do, the more points you earn.

1. Track Energy Use in Municipal and Board of Education Buildings (5 points)

Maintain current data in your ENERGESTAR Portfolio Manager account for all of the municipal and Board of Education buildings listed below, as defined by ENERGESTAR. You must have at least two full years of benchmarking data within the past three years. Municipalities are strongly encouraged to establish automated transfer of electricity and natural gas data from Eversource or United Illuminating into municipal building Portfolio Manager accounts (see automated data transfer links under "Resources" below).

Note: Energy use data for other fuels (e.g., heating oil, propane) will likely need to be collected and manually entered into Portfolio Manager.

- K-12 Schools
- Libraries
- Police Stations
- Fire Stations
- Town halls, administration buildings (use ENERGESTAR Office category)
- Museums
- Social/Meeting Halls
- Performing Arts Buildings
- DPW garages (use ENERGESTAR Other – Public Services category)
- Any other municipally owned building that uses > 5,000 kwh/year of electricity

Note: Benchmarking and tracking energy use in wastewater treatment plants is a sub action under this action, worth additional points (see below).

Submit: Submit the report generated through the SCT Portfolio Manager data request and follow the instructions within the data request on how to submit for points under this action. You must use ENERGESTAR Portfolio Manager to complete this action. This subaction is included in the optional Sustainable CT Climate Leader Designation.

Timeframe for Credit: Eligible for new action credit. This action falls under the action type "Data Tracking/Benchmarking and Meeting Performance Metrics" (see ["Timeframe for Credit" Guidance Document](#) for submission requirements).

2. Track Energy Use of Your Wastewater Treatment Plant (5 points)

Maintain current data in your ENERGYSTAR Portfolio Manager account for energy use by your municipality's water or wastewater treatment plants. You must have at least two full years of benchmarking data within the past three years.

Submit: The report generated through the [SCT Portfolio Manager data request](#) and follow the instructions within the data request on how to submit for points under this action. You must use ENERGYSTAR Portfolio Manager to complete this action. This subaction is included in the optional Sustainable CT [Climate Leader Designation](#).

Timeframe for Credit: Eligible for new action credit. This action falls under the action type "Data Tracking/Benchmarking and Meeting Performance Metrics" (see ["Timeframe for Credit" Guidance Document](#) for submission requirements).

Timeframe for Credit

Actions can either be "New" or considered for "Rolling Credit."

New Action Credit. Any action completed within the past three years (from January 1 of the year seeking certification) is eligible for potential certification points. If you are applying for recertification in your year of expiration, you may not claim New Action Credit for items that previously received credit.

Rolling Credit. For any action older than three years (from January 1 of the year seeking certification), you must demonstrate ongoing, currently relevant, and meaningful impact in your community to be considered for certification points. If you are applying for recertification in your year of expiration, you must apply for Rolling Credit for any item that previously received credit, even if it was completed within the past three years.

View the ["Timeframe for Credit" Guidance Document](#) for detailed submission requirements.

Engaging Partners

Sustainable CT encourages regional collaboration and other forms of partnership. For every action, please complete the "Partners" box in your submission, indicating the name(s) of any municipalities and/or organizations you partnered with (if any) and a brief description of your municipality's role. If you collaborate with other municipalities, each community will receive points. For additional information, please see the ["Partners Guidance Document"](#).

Potential Municipal and Community Collaborators

Staff from the public works, engineering, building departments and representatives from your energy commission could be helpful in implementing this action.

Funding

If available, below are potential funding sources specific to this Action. For a complete listing of potential funding opportunities to assist with implementing Sustainable CT Actions, please visit the [Sustainable CT Grants Portal](#), which is searchable by Action. Please also visit the [Support for Your Town](#) page for opportunities for technical assistance and other supports.

- [Urban Act Grant Program](#)
- [Municipal Grant Program \(MGP\)](#)

Resources

Toolkits, Calculators, Guidance Documents, General Information

- [Free ENERGYSTAR Portfolio Manager Benchmarking Assistance for Sustainable CT Communities](#)
- [ENERGYSTAR Portfolio Manager General Information](#)
- [ENERGYSTAR Portfolio Manager Account Assistance](#)
- [ENERGYSTAR Portfolio Manager Training](#)
- [Eversource manual on automated data transfer to Portfolio Manager](#)
- [United Illuminating \(UII\) Integration with ENERGY STAR Portfolio Manager](#)
- Acadia Center, ["Community Energy Vision Action Guide for Connecticut"](#)

Organizations and Relevant Programs

- US Department of Energy, ["State and Local Solution Center"](#)

Why This Matters

Energy tracking and management are fundamental to energy planning and decision-making. Tracking your municipality's energy use establishes a baseline from which to measure your future energy use and identify your achievements and areas for improvement. To meaningfully track the success of your energy efficiency and renewable energy development you must track energy use over time, in a consistent fashion.

Benchmarking is the process of comparing energy performance to something similar. An example of external benchmarking is comparing one facility to a similar one. For this Action, internal benchmarking means measuring your community's energy performance against the same period in the previous year.

Benefits

Maintaining an up-to-date account will allow you to assess energy use and trends easily, and demonstrate your municipal accomplishments and areas of possible energy use reduction. ENERGYSTAR Portfolio Manager will allow your community to measure its energy consumption over time. Completing this action utilizing ENERGYSTAR Portfolio Manager will help you satisfy requirements in the Clean Energy Communities program.

CT Success Stories

- [Bristol - Jun 2020 Certification](#)
- [Ridgefield - Oct 2018 Certification](#)
- [Bristol - Oct 2020 Certification](#)
- [Litchfield - Jun 2021 Certification](#)
- [Milford - Jun 2021 Certification](#)
- [Ridgefield - Nov 2021 Certification](#)
- [Glastonbury - Nov 2021 Certification](#)
- [Greenwich - Nov 2021 Certification](#)
- [Litchfield - Nov 2021 Certification](#)
- [Milford - Nov 2021 Certification](#)
- [West Hartford - Nov 2021 Certification](#)

**TOWN OF GLASTONBURY
FACILITIES MAINTENANCE DEPARTMENT
TRANSMITTAL**

DATE: August, 9, 2021

TO: Jonathan Mullen, Town Planner/Sustainable CT

FROM: David Sacchi, Building Superintendent

RE: Sustainable CT Submission, Section 7.1 Benchmark and Track Energy Use

On June 17, 2021, the Town of Glastonbury submitted the EnergyStar Portfolio Manager report generated through the SCT Portfolio Manager data request.

This submission satisfied the criteria for the following:

Track Energy Use in Municipal and Board of Education Buildings. 5 Points

Track Energy Use in Your Wastewater Treatment Plant. 5 Points

Total points requested this section: 10 Points

I am available for any questions or comments.

c: Richard J Johnson, Town Manager

Kathryn Paquette, Communications and Marketing

Skip to Page Content: Alt+Shift+C Skip to Common Website Menu: Alt+Shift+M Skip to Public Website Menu: Alt+Shift+P



Portfolio Manager

Welcome Account
TOGFACILITIES: 1 Set n
gs

- |
- Notifications
- |
- ENERGY STAR Notifications
- |
- |
- Contacts
- |
- Help
- |
- Sign Out
- MyPortfolio
- Sharing
- Reporting
- Recognition

Charts & Graphs



Weather Normalized Source EUI

How much total primary fuel would be required by my properties, under average weather conditions?

- Data Requests from Others
- My Reports and Templates
- ENERGY STAR Reports
- [Create a New Template](#)

ENERGY STAR Performance Documents

[Statement of Energy Performance \(SEP\)](#)

[Statement of Energy Design Intent \(SEDI\)](#)

[Data Verification Checklist](#)

[Progress & Goals Report](#)

[ENERGY STAR Scorecard](#)

[Water Scorecard](#)

Your new response preview(s) has been generated.

Name	Status	Action
Data Request: Sustainable CT 2021 submission for action 7.1 (Request from Lynn Stoddard)	Response Preview Generated: 8/09/2021 8:41 AM No errors found	I want to... ▼
Response sent for Crystal Redding with Town of Glastonbury	Sent: 6/17/2021 11:39 AM	I want to... ▼
Data Request: Sustainable CT submission for actions 6.1, 6.2, 6.3 (Request from Lynn Stoddard)	Closed: 4/23/2019 3:38 PM	I want to... ▼
Response sent for Crystal Redding with Town of Glastonbury	Sent: 8/14/2018 11:26 AM	I want to... ▼