

CBIA Energy & Environment Council

Energy Committee Update

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Monthly Meeting | March 2022



DEEP's 2022 Comprehensive Energy Strategy

- Under Section 16a-3d of the Connecticut General Statutes, the Department of Energy and Environmental Protection (DEEP) is charged with preparing a **Comprehensive Energy Strategy** (CES) for the state every four years
- The CES examines future energy needs in the state and identifies opportunities to reduce costs for ratepayers, ensure reliable energy availability, and mitigate the public health and environmental impacts of Connecticut's energy use, such as greenhouse gas (GHG) emissions and emissions of criteria air pollutants
- In addition, Governor Lamont's **Executive Order 21-3** directs DEEP to include in the next CES a set of strategies to:
 - a. provide for more affordable heating and cooling for Connecticut residents and businesses
 - b. achieve reductions in GHG emissions from residential buildings and industrial facilities to meet the 2030 and 2050 emissions targets established in the Global Warming Solutions Act
 - c. improve the resilience of the state's energy sector to extreme weather events, fuel commodity price spikes, and other disruptions

Note: Connecticut's Global Warming Solutions Act requires the state to reduce economywide GHG emissions 45% below 2001 levels by 2030 and 80% below 2001 levels by 2050.

<https://portal.ct.gov/DEEP/Energy/Comprehensive-Energy-Plan/Comprehensive-Energy-Strategy>



Comprehensive Energy Strategy

Development Schedule

- **January 6, 2022** – Public notice issued
- **February 17, 2022** – Scoping meeting held
- **March 3, 2022** – Deadline for written comments on scope of the report
- **March/April 2022** – DEEP publishes final scope
- **Next...** DEEP publishes draft CES
- **Next...** Public hearing, technical meeting, and minimum 60-day comment period
- **Next...** DEEP publishes final CES



Five Key Lenses

In its Notice of Proceeding and Scoping Meeting, DEEP outlined five overlapping lenses through which it will develop this year's report

1. **Climate** – policy mechanisms to meet the state's greenhouse gas reduction obligations under the Global Warming Solutions Act
2. **Equity** – energy and environmental policy decisions that produce equitable outcomes
3. **Affordability** – energy and environmental policy decisions that produce affordable outcomes
4. **Economic development** – focus on workforce development to grow the green economy while maintaining economic competitiveness
5. **Resilience** – improvements to grid resilience



PURA's Grid Modernization Dockets Continue

- On **February 18**, the Connecticut Public Utilities Regulatory Authority (PURA) held a [technical meeting](#) in Docket No. 17-12-03RE10 – *PURA Investigation into Distribution System Planning of the Electric Distribution Companies – Building Blocks of Resource Adequacy and Clean Electric Supply*
- The purpose of the technical meeting was to receive presentations from DEEP and the electric distribution companies on Connecticut's clean energy procurements to date, with the intention of informing the broader conversation on how state-level solutions to providing clean energy may be more efficiently incorporated into retail electric supply

Summary of All Power Purchase Agreements and Projects by Program

Developed by Eversource and United Illuminating

Project Name	Type	Site	MW
<i>Section 6 of Public Act 13-303</i>			
Fusion Solar [C]	Solar	CT	20

<i>Section 8 of Public Act 13-303 / RECs Only</i>			
Schiller Biomass [C]	Biomass	NH	21.5
McNeil (Burlington) Biomass (PPA Ended)	Biomass	VT	5.4
McNeil (GMP) Biomass [C]	Biomass	VT	2.7

<i>Public Acts 13-303 and 15-107 / Three State RFP</i>			
Woods Hill Solar [C]	Solar	CT	20.00
Sanford Airport Solar, LLC [C]	Solar	ME	49.36
Quinebaug Solar Project [C]	Solar	CT	49.36
Chinook Solar Project [T]	Solar	NH	30.00
Farmington Solar Project [C]	Solar	ME	49.36
Cassadaga Onshore Wind [C]	Wind	NY	125.5*

<i>Public Acts 13-303, 15-107, and 17-144 / Best in Class RFP</i>			
Bloom Colchester [C]	Fuel Cell	CT	10.00
Energy and Innovation Park, New Britain	Fuel Cell	CT	19.98
Revolution Wind	OSW	RI	200.00
Hartford Fuel Cell Project	Fuel Cell	CT	7.40
Derby Fuel Cell Project	Fuel Cell	SWCT	14.80

[T] = PPA was terminated, [C] = Project is in commercial operation, * = As-built size reduced from original bid

Note: MW represents combined amount under contract with Eversource and UI

Project Name	Type	Site	MW
<i>Public Act 15-107 / Small-Scale RFP (2-20 MW)</i>			
Incremental Energy Efficiency - ES PDR [C]	PDR	CT	N/A
Wallingford Renewable Energy Solar [C]	Solar	CT	14.99*
Hecate Energy Greene County 3 Solar	Solar	NY	19.99
Hecate Energy Albany County 2 Solar	Solar	NY	19.99
Pawcatuck Solar Center (aka N. Stonington)	Solar	CT	15.00
W. Portsmouth St. Solar	Solar	NH	10.00
Constitution Solar	Solar	CT	19.59
Highgate Solar [T]	Solar	VT	19.60
Hinckley Solar [T]	Solar	ME	19.58
Randolph Center Solar [T]	Solar	VT	19.58
Holiday Hill Community Wind (REC only) [C]	Wind	MA	5.00
Sheldon Solar [T]	Solar	VT	19.63
Winslow Solar [T]	Solar	ME	19.58
Davenport Solar	Solar	VT	14.70
Nutmeg Solar [C]	Solar	CT	19.60
GRE-15-NORTH HAVEN-CT Solar [C]	Solar	CT	4.98
WATERFORD-CT (Greenskies Clean Energy)	Solar	CT	17.73
Coolidge Solar I [C]	Solar	VT	19.59
Litchfield Solar Plant (Silicon Ranch)	Solar	CT	19.80
North Stonington Solar Plant (Silicon Ranch)	Solar	CT	9.99
Wind Colebrook South Onshore Wind	Wind	CT	3.83

Summary of All Power Purchase Agreements and Projects by Program, continued

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Section 1 of Public Act 17-3 / Zero Carbon RFP			
Millstone Power Station [C]	Nuclear	CT	1091 ^Δ
Black Hill Point Energy Center	Solar + St	CT	19.90
Seabrook Station [C]	Nuclear	NH	230 ^Δ
Revolution Wind Expansion	OSW	RI	104.00
GRE-3-ME-SACO	Solar	SME	19.80
Gravel Pit Solar (East Windsor)	Solar	CT	20.00
Old Mill Solar, LLC	Solar	ME	15.00
Black Hill Point Energy Center	Solar	CT	19.90
Steel Mill Solar, LLC	Solar	NH	10.00
Tilton Heights Energy Center	Solar	NH	19.90
Keay Brook Energy Center	Solar	SME	19.90
Montville Energy Center (Montville)	Solar	CT	19.90

Public Act 19-71 2019 / OSW RFP			
Park City Wind	OSW	SEMA	804.00

Section 127 of Public Act 11-80			
Somers Solar [C] [L]	Solar	CT	5
East Lyme Solar [C] [L]	Solar	CT	5
South Windsor Fuel Cell [C] [L]	Fuel cell	CT	5
Wind Colebrook Onshore Wind [C] [L]	Wind	CT	2.5
Bridgeport Landfill Solar [C]	Solar	CT	2.86
Bridgeport Landfill Fuel Cell [C]	Fuel cell	CT	2.8
New Haven Fuel Cell [C]	Fuel cell	CT	2.8

[C] = Project is in commercial operation, [L] Project is a load reducer, Δ = MW based on PPA percentage in 2022

Note: MW represents combined amount under contract with Eversource and UI

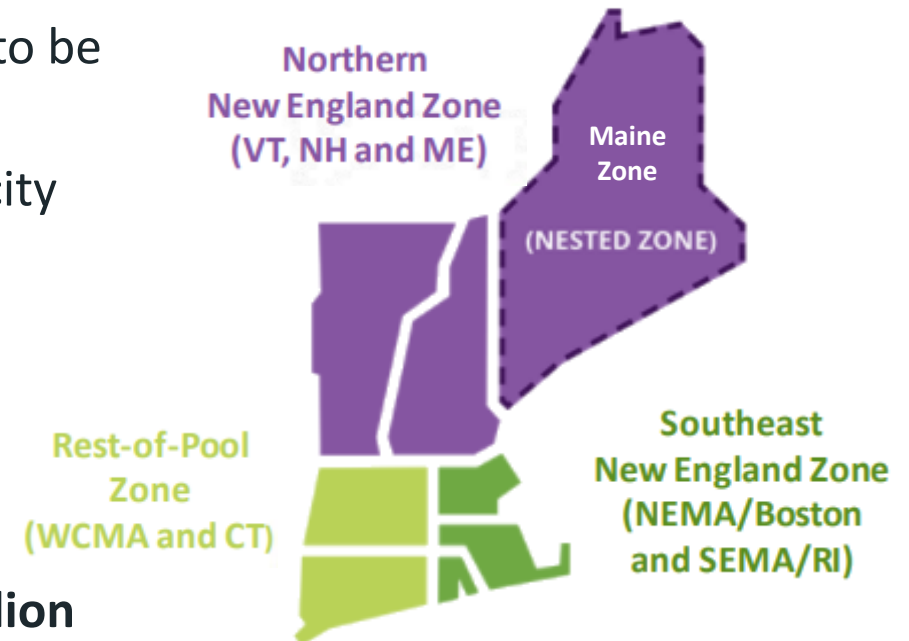
Other Projects Not Listed on Appendix 6 of IRP

Section 124 of Public Act 07-242 / Project 150			
Bridgeport Fuel Cell [C]	Fuel cell	CT	14.93
UDR Glastonbury [C]	Fuel cell	CT	3.4
Plainfield Renewable Energy [C]	Fuel cell	CT	37.5

Section 264 of June Special Session of Public Act 17-2			
NuPower Bridgeport FC, LLC	Fuel cell + CHP	CT	9.66

Forward Capacity Auction #16 Results

- On **February 7**, ISO New England administered Forward Capacity Auction #16, procuring the capacity needed to meet demand for electricity in the **June 1, 2025 to May 31, 2026** timeframe
 - Because of litigation, the ISO delayed the release of the auction results
- On **March 9**, the ISO released preliminary auction results and plans to file final auction results with the Federal Energy Regulatory Commission (FERC) by the end of March
- The auction secured commitments for **32,810 MW** of capacity to be available in 2025-2026 (Net ICR = 31,645 MW)
- Nearly 5,000 MW — approximately 15 % — of all cleared capacity came from solar, wind, energy storage, and demand resources
- The three preliminary **clearing prices** are:
 - \$2.639/kW-month in SENE
 - \$2.591/kW-month in Rest-of-Pool
 - \$2.531/kW-month in NNE and Maine
- The total value (cost) of the capacity -- approximately **\$1.04 billion**



Minimum Offer Price Rule Developments

- In **February**, ISO New England announced that it will adopt and file with the Federal Energy Regulatory Commission (FERC) a proposal to transition to an elimination of the Minimum Offer Price Rule (MOPR) coincident with **Forward Capacity Auction #19**
 - FCA #19 will be administered in 2025 to procure capacity for the 2028-2029 capacity commitment period
 - The transition proposal received the support of nearly 70% of NEPOOL
- Under the transition proposal, up to 700 MW of state-sponsored resources will be allowed to offer their capacity into FCA #17 and FCA #18 with no mitigation review
- ISO New England plans to file the transition proposal in **March**

Note: The Minimum Offer Price Rule (MOPR) sets a floor price for offers into the capacity market by new resources.

It is designed to prevent resources from offering artificially low prices for their capacity in order to clear the market and take on a capacity supply obligation.