



October 19, 2022

2022 COMPREHENSIVE ENERGY STRATEGY

SECTION 16A-3D OF THE CONNECTICUT GENERAL STATUTES

NOTICE OF TECHNICAL MEETINGS

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). The CES examines future energy needs in the state and identifies opportunities to reduce ratepayer costs, ensure reliable energy availability, and mitigate the public health and environmental impacts of Connecticut's energy use, such as impacts from emission of greenhouse gases and criteria air pollutants. The agency held a Scoping Meeting for the 2022 CES on January 6, 2022 (notice). Technical meetings on hydrogen, end uses that are hard to decarbonize, building thermal decarbonization were held on April 6, 2022 (hydrogen), September 1, 2022 (end uses that are hard to decarbonize), September 22, 2022 (building thermal decarbonization – heat pump barriers and market strategies), and September 23, 2022 (building thermal decarbonization – heat pumps [continued]; support strategies) (see previous notices: hydrogen notice and technical meetings 1-4 notice). Technical Meeting 4 on building thermal decarbonization economic potential and technology deployment targets was canceled (notice); and an additional opportunity for written comment on that topic is forthcoming.

By way of today's notice, DEEP invites stakeholder participation in two additional technical sessions that will inform development of key elements of the CES. DEEP also expects to use information gathered during these technical sessions to inform other energy planning processes, such as future Conservation & Load Management Plans and Integrated Resource Plans.

The first technical meeting in this noticed series focuses on electric, active demand response (technical session #5). The second meeting focuses on alternative fuels (technical session #6). Detailed agendas for these meetings will be announced in the coming weeks. Please see the detailed invitation for presentation proposals and written comments related to these technical sessions below.

Invitation for presentations – As described in this notice, DEEP is inviting presentation proposals for specific portions of the agendas for Technical Sessions 5 & 6.

Zoom – All sessions will be held via Zoom. Individuals wishing to attend are required to register via the links provided below. Note that each session has a unique registration link. Participants must register for each session they intend to attend.

Agendas – DEEP expects to distribute a formal agenda prior to each session. Tentative agendas are shown below and are subject to change. DEEP may issue additional information or request additional information from participants in advance of each session.

Recordings – DEEP will record all sessions and post the recordings on the [CES web page](#).

Public comment during the meetings – Each session will provide an opportunity for oral public comments.

Slides – After each session, DEEP will post PDF versions of all slides on the [CES web page](#).

Written comments – As described in this notice, DEEP is soliciting written comments in conjunction with technical sessions 5 & 6.

Session 5 – Thursday, November 3, 2022 – 9 a.m. to 3 p.m.

Active Demand Response

- Welcome & Introduction
- Public Comment
- Topic Introduction
 - What is electric, active demand response (ADR)
 - CES lenses in relation to ADR
 - Status of ADR initiatives in Connecticut
- ADR Potential*
- Barriers to ADR*
- Solution Strategies*
- Public Comment
- Wrap Up

Register for Session 5:

https://ctdeep.zoom.us/meeting/register/tZYrf-uvrT4iHtaGRmleQSpAeHYYm_QfXo0y

Session 6 – Friday, November 4, 2022 – 9 a.m. to 5 p.m.

Alternative Fuels

- Welcome & Introduction
 - Current use of fossil and alternative fuels in CT
- Public Comment
- Overview of Alternative Fuels (*session is expected to cover biodiesel, renewable diesel, bioethanol, biomethane, propane, biopropane, hydrogen [variety of colors], and syngas for use in buildings, vehicles, and electricity generation*)
- Benefits of Alternative Fuels*
- Challenges with Alternative Fuels*
- Strategies for Optimal Use of Alternative Fuels*
- Public Comment
- Wrap Up

Register for session 6:

https://ctdeep.zoom.us/meeting/register/tZEsc-GqrzMrH9x7rMnidFxdEsTiCnm_M_Rh

**Presentation proposals are invited for starred portions of the Technical Session 5 and 6 agendas*

Invitation for Presentations

DEEP welcomes proposals from individuals and organizations who wish to provide presentations during technical sessions 5 & 6. Presentations are specifically requested for the starred (*) portions of the agendas above. Interested parties should send an e-mail to DEEP.EnergyBureau@ct.gov by October 26, 2022, at 5:00 p.m. Please include the session number, the relevant portion of the agenda for the proposed presentation, the name of the individual who would present, the topic(s) the presentation would cover, and a phone number. In developing the detailed agenda for each session, DEEP will consider all proposals received.

Written comments

With this Notice of Request for Written Comments (Notice), **DEEP invites stakeholders to submit written comments related to technical sessions 5 and 6 by November 21, 2022, at 5:00 pm ET.**

Responses to the specific questions detailed below are requested. However, all comments related to technical sessions 5 & 6 are encouraged. Please indicate the relevant session number(s) and question number(s) in the title or subject line of a written comment.

Comment Opportunity for Session 5 Active Demand Response

Comment Deadline: November 21, 2022, at 5:00 p.m.

Comments may be filed electronically via the [Energy Filings web page](#) or submitted directly to DEEP at DEEP.EnergyBureau@ct.gov.

DEEP requests written comments in response to the following questions and any topics related to Technical Session 5. Please note the session number and any relevant question numbers in your response.

Questions:

1. What solution strategies should the CES consider for increasing active electric demand response in Connecticut? Why? In responding, please identify any equity, economic development, affordability, reliability, and/or resilience impacts that might result from a particular proposed strategy.
2. What market, regulatory or legislative changes (at state, regional, or national levels) would be helpful or critical to accelerate active demand response in Connecticut? Why?
3. Should Connecticut establish statewide active electric demand response goals? Why? If so, what factors should help determine those goals?
4. What recent reports or analyses should DEEP review when considering active electric demand response policies? Please share links or PDFs of full reports, if possible.
5. What states are leaders in active electric demand response? What makes them leaders?

Comment Opportunity for Session 6 Alternative Fuels

Comment Deadline: November 21, 2022, at 5:00 p.m.

Comments may be filed electronically via the [Energy Filings web page](#) or submitted directly to DEEP at DEEP.EnergyBureau@ct.gov.

DEEP requests written comments in response to the following questions and any topics related to Technical Session 6. Please note the session number and any relevant question numbers in your response.

Questions:

1. Which alternative fuels are likely to be limited by the availability of affordable and sustainable feedstocks over the next 30 years? Why?
2. Which alternative fuels are likely to be limited due to infrastructure costs over the next 30 years? Why?
3. What other factors (beyond feedstocks and infrastructure) may limit the availability of affordable alternative fuel supplies during the next 30 years? Why?
4. What sectors or end uses should be prioritized for the use of alternative fuels? Why?
5. Specific to transportation, which vehicle types and vehicle classes are the best candidates for alternative fuel use in the near term?
6. How should alternative fuels be utilized to compliment Connecticut's existing light-duty and medium- and heavy-duty vehicle electrification commitments?
7. What should DEEP regard as best practices for the production, delivery, storage, and use of alternative fuels? Where are these best practices in effect?
8. How can state government help prepare Connecticut's workforce for wider use of alternative fuels and for potential reductions in liquid and gaseous fuel use in Connecticut?
9. Can alternative fuels help to insulate Connecticut from volatility in the global petroleum markets? If so, how?
10. Questions regarding "low-carbon biofuels" (LCBs) such as biodiesel:
 - a. Under [PA 21-181](#), the minimum proportion of LCBs blended into heating oil distributed in Connecticut is to be 50 percent by 2035. Is this technically realistic? Is it environmentally responsible?
 - b. Should the minimum percentage of LCB ultimately go beyond fifty percent? If so, how far and in what time frame?
 - c. Would a low-carbon fuel standard be more efficient than a blending mandate?
 - d. Should feedstocks used in producing biodiesel sold in Connecticut be restricted? If so, what feedstocks should be avoided, and why?
 - e. The statute defines eligible biofuels as those "meeting the standards for advanced biofuels under the federal Renewable Fuel Standard Program, requiring a fifty per cent reduction in lifecycle greenhouse gas emissions..." Is qualification under the

Renewable Fuel Standard Program an adequate basis for biofuels sold in Connecticut?

- f. In conducting the state greenhouse gas inventory under the Global Warming Solutions Act ([Public Act 08-98](#)), DEEP currently subscribes to an international accounting norm under which primary greenhouse gas emissions associated with combustion of virgin biofuel are not counted in the jurisdiction where the fuel is combusted unless that is also the jurisdiction where the feedstock was grown. Are this norm and this practice adequate from a global climate perspective?
- g. Does incorporation of biodiesel in heating fuel have the potential to negatively impact components of older or new heating oil combustion systems (e.g., tanks, burners, gaskets)? What level of biodiesel blending do new system component warranties commonly cover? Are system warranties expected to change in the next 5 to 10 years?
- h. Is gelling of biodiesel in outdoor fuel tanks during cold weather an issue that should be addressed in regulating the use of LCBs?
- i. What environmental side effects of biofuel combustion and biofuel reliance should DEEP take into account as it develops regulations regarding LCBs blended in heating oil?
- j. Does reliance on LCB blended in heating fuel create an inadvertent risk of prolonging the use of petroleum in Connecticut?
- k. In 2050, what proportion of Connecticut's space heating load should be satisfied with petroleum heating oil blended with LCB?

The Connecticut Department of Energy and Environmental Protection is an Affirmative Action/Equal Opportunity Employer that is committed to complying with the requirements of the Americans with Disabilities Act. Please contact us at (860) 418-5910 or deep.accommodations@ct.gov if you: have a disability and need a communication aid or service; have limited proficiency in English and may need information in another language; or if you wish to file an ADA or Title VI discrimination complaint. Any person needing a hearing accommodation may call the State of Connecticut relay number - 711. Requests for accommodations must be made at least two weeks prior to any agency hearing, program, or event.