



LEBANON ENERGY ADVISORY COMMITTEE (LEAC)
JUNE 16, 2022 - 4:00 PM
COUNCIL CHAMBERS, CITY HALL OR
REMOTE VIA VIRTUAL PLATFORM
LEBANONNH.GOV/LIVE

-
- 1. Call to Order**
 - 2. Approval of Minutes**
 - A. May 19, 2022
 - 3. Old Business**
 - A. Master Plan Update - Actions & Strategies Status (Start with Outcome 6, Action 6)
 - B. Community Power Coalition of NH/Legislation/PUC Regulations
 - C. Landfill Gas to Energy Project & Solar
 - D. Updates to Building Codes
 - E. EV Charging RFI (Lebanon/Hanover/Hartford)
 - F. Conducting a City-wide Climate Action Planning Process & GHG Reduction Plan - Grant Application
 - G. Strategies/Goals for 2022
 - 4. New Business**
 - A. EV Subcommittee Report
 - B. Report on Rental Decarbonization Pilot
 - C. Recent & Upcoming Conferences or Webinars of Note
 - D. EFM Report
 - 5. Open to the Public**
 - 6. Future Agenda Items**
 - 7. Adjournment**

Meetings are open for in-person and remote attendance. Members of the public that wish to attend remotely may do so by going to LebanonNH.gov/Live where you will find instructions on how to enter the meeting. Members of the public will be able to participate and ask questions through the City's virtual platform or by phone. Please note: Should technical difficulties occur during the meeting that disrupts virtual or phone connection(s), the meeting will continue without remote access capabilities.

AGENDA
LEBANON ENERGY ADVISORY COMMITTEE
JUNE 16, 2022

AGENDA ITEM 2
APPROVAL OF MINUTES

May 19, 2022



LEBANON ENERGY ADVISORY COMMITTEE MEETING MINUTES

Council Chambers, City Hall

May 19th, 2022

4:00 PM

MEMBERS PRESENT: Greg Ames (Chair), Jon Chaffee (Vice-Chair), Clifton Below (Council Representative), Woody Rothe, Sherry Boschert, Devin Wilkie (Council Alternate, remote), Meaghan Butts (alternate, remote)

MEMBERS ABSENT: Gene Homicki (alternate)

STAFF PRESENT: Tad Montgomery, David Brooks – Planning Office (until 5:15), Shaun Mulholland (av. at 5:30)

GUESTS PRESENT: None

CALL TO ORDER: Meeting called to order by Greg Ames at 4:03 PM.

ACCEPTANCE OF MINUTES

Woody moved to accept the March 2022 minutes; Sherry seconded. The minutes were approved unanimously without change.

OLD BUSINESS

COMMUNITY POWER UPDATE

Asst. Mayor Below gave an update on the Community Power Coalition of NH (CPCNH). Portsmouth has joined CPCNH which now has 19 communities in it representing 20% of the state's population. CPCNH recently held its 1st annual meeting and Clifton was appointed Chair, Chris Parker as V. Chair, Kim Quirk of Enfield appointed Treasurer and Doria Brown as Secretary. Eight communities now have municipal aggregation plans. They have recently issued an RFP.

LEGISLATIVE UPDATE

No new news.

LANDFILL GAS-TO-ENERGY PROJECT

No new news.

MASTER PLAN – ENERGY CHAPTER

David continued the work of leading LEAC members through a point-by-point evaluation of the Outcomes, Strategies, and Actions in the Master Plan's Energy Chapter. The Planning Office will make revisions based on what was discussed and get a red line version back to LEAC members and relevant staff.

ELECTRIC VEHICLE SUBCOMMITTEE

- Sherry Boschert gave a review of the EV Subcommittee's work.
- Tad discussed new developments to install DC fast chargers at the PD, starting with a Capital Improvement Plan and budget that has been submitted at the City Manager's request. NorwichEV, a new branch of Norwich Solar Technologies, visited the site with staff and did an assessment of possible options and costs. Shaun said that he will direct the PD and EFM to invite the LEAC EV Subcommittee to a 'whiteboard' exercise to discuss the project. There was a discussion on how to arrange for back-up power for the PD's EV's when the grid goes down and different options were mentioned. Clifton said that there might be a possibility of installing a battery there as part of the Liberty battery pilot program.
- Sherry gave an overview of her work to get Level 2 chargers installed at her condominium. She mentioned that a DCC-9 box has been proposed that allows for an EV to be put on the same household circuit as other major appliances and automatically reduce the EV's draw on the load if too many devices are being used at once. All were impressed. She talked about writing it up for publication somewhere.
- There was a discussion of having an EV in the upcoming Lebanon HS Alumni Parade on June 11th, and whether a City staff person could drive the City's Leaf.
- Greg asked if it would be possible for the City's Ford F150 Lightning could be at the EV symposium in Londonderry in September.
- Greg said that the City's F150 is scheduled to be manufactured starting the week of June 6th.

OTHER NEWS & NEW BUSINESS

- Shaun mentioned that the greenhouse gas reduction plan grant application was not funded.
- Clifton said that he is working with Dr. Amro Farid to get funding for a smart communities network project. Lebanon would participate by recruiting research participants, focus group participants, and providing conference room space. LEAC members unanimously endorsed the project.

FUTURE AGENDA ITEMS

- LEAC work priorities for 2022-2023.
- REC discussion.
- More Master Plan discussion.
- Landfill Gas-To-Energy update.
- Solar Phase 3 update.

NEXT MEETING

Is scheduled for Thursday, June 16th at 4 PM, City Council Chambers.

ADJOURNMENT

A motion was made by Clifton to adjourn the meeting at 5:58 PM. The motion was seconded by Woody. The motion was unanimously approved.

Respectfully submitted,

Tad Montgomery

DRAFT

AGENDA
LEBANON ENERGY ADVISORY COMMITTEE
JUNE 16, 2022

AGENDA ITEM 3
OLD BUSINESS

A.
ENERGY CHAPTER-
ACTION STRATEGIES

OVERALL LONG-TERM GOAL:

Lebanon is a leader in energy efficiency, renewable energy reliance, and innovation across municipal, commercial, institutional, and residential sectors.

13 | G

Outcomes & Strategies

OUTCOME 1

The City's buildings are energy efficient and new construction and redevelopments adhere to energy efficient standards.

STRATEGIES

- A** The City shall maximize energy efficiency in municipal buildings and encourage efficiency in commercial and residential buildings.
- B** The City shall develop guidelines to encourage energy efficient construction.

ACTIONS

- Assess and execute as many ETAP Project Action List items as possible **1**
- Adopt Energy Efficient Building Code policy **2**
- Revise existing subdivision and site plan regulations to be more energy efficient **3**
- Educate taxpayers about dollars saved over time when money is invested in energy efficiency **4**

OUTCOME 2 The City relies upon as much local renewable energy as possible.

STRATEGIES

- A** The City shall actively pursue opportunities to expand its use of renewable energy sources, such as hydropower, wind, solar, geothermal, and consider purchasing renewable energy from utility companies if offered.
- B** The City shall encourage the commercial and residential sectors to invest in renewable energy.

ACTIONS

- 1 Adopt a tax-neutral Property Tax Exemption for renewable energy projects
- 2 Conduct feasibility studies on the sites for solar power potential based on the Solar Map
- 3 Assess the feasibility of solar domestic hot water in new and existing municipal buildings
- 4 Look into alternative ways of assessing wind power generation potential
- 5 Encourage residents that benefit from moderate to fair wind power potential to explore small scale residential wind power projects
- 6 Assess feasibility of implementing the recommendations of the hydropower study to improve energy efficiency for the municipal water and wastewater systems
- 7 Encourage Rivermill Hydroelectric, Inc. to improve onsite efficiency and power capacity at the Rivermill Dam
- 8 Be involved in any hydropower development proposals along the Mascoma River
- 9 Consider moderate-scale district heating systems in new or existing office and industrial parks. These district heating systems could be based on a public/private partnership to cost-effectively implement high-efficiency heating among multiple buildings.
- 10 Research potential for possible public private/partnerships to develop biomass or liquid natural gas district heating and power plant projects in areas like business and industrial parks, downtown Lebanon, or downtown West Lebanon
- 11 Participate in regional discussions about opportunities for biomass heat/power and liquid natural gas
- 12 Continue to take advantage of geothermal resources in new construction, similar to Kilton
- 13 Study the feasibility of ground-source-heat pumps in new and upgraded municipal buildings
- 14 Encourage businesses to invest in renewable energy generation

OUTCOME 3

There is a culture of energy efficiency and conservation within the City's municipal, commercial, institutional, and residential communities.

STRATEGIES

- A** The City shall actively pursue federal, state, and regional funding and grants for projects identified in the Energy Plan. Other creative financing mechanisms shall be considered to support municipal, residential, and commercial energy initiatives.
- B** The City shall encourage municipal departments, residents, businesses, institutions, and visitors to support the local economy and preserve the working landscape by purchasing local food.
- C** The City shall conduct and support education and outreach efforts to increase local and regional understanding of the importance to reduce energy use and demand, curb reliance on fossil fuels, and protect the environment.
- D** The City shall explore opportunities to collaborate with local and regional partners, including the Lebanon School District and neighboring communities, to develop regional energy initiatives including aggregated power purchasing, expanded commuter engagement, and other opportunities to reduce energy use and costs.

ACTIONS

- Develop outreach campaigns for City employees, for example, to increase carpooling and recycling **1**
- Host and promote "Button-Up New Hampshire" workshops **2**
- Develop a public education campaign about energy topics including an online and social media presence **3**
- Advocate for projects that reduce the City's energy consumption and/or introduce renewable energy resources in the Capital Improvement Program **4**
- Investigate opportunities for interdepartmental coordination and funding of energy efficiency maintenance projects in existing municipal buildings **5**
- Establish an 'energy fund' to set aside funds to finance further energy savings projects **6**
- Maintain a list of "shovel ready" energy-related projects to take advantage of potential future funding and grant programs offered by federal and state agencies **7**
- Create or contract an 'energy coordinator' position **8**
- Expand the work of the Lebanon Garden Committee to establish community gardens **9**
- Conduct outreach to promote and strengthen Lebanon's Farmer's Market **10**
- Use and promote local food at City events **11**
- Research technical programs to add in Lebanon School curriculum to involve students in energy efficiency and conservation **12**

OUTCOME 4 The City’s residential, commercial, and institutional sectors privately invest in energy efficiency and renewable energy projects.

STRATEGIES

- A** The City shall take active steps to encourage residents, businesses, and institutions to invest in efficiency and renewable technology.
- B** The City shall pursue public-private partnerships to save money and generate energy.
- C** The City shall work with area businesses and institutions to leverage educational opportunities.

ACTIONS

- The Lebanon Energy Advisory Committee should advocate for and the City Council should pass a more stringent energy efficient building code policy **1**
- The Lebanon Energy Advisory Committee should advocate for and the City Council should pass a tax neutral property tax exemption policy for renewable projects **2**
- Encourage the use of natural gas at local businesses (ex: Kleen Laundry) **3**
- Explore shared natural gas delivery with other municipalities and businesses **4**
- Explore shared biomass power production opportunities (ex: Unity, NH) **5**
- Continue to explore partnerships with the private sector to maximize energy savings on specific projects (ex: Landfill project) **6**
- Demand rigorous commissioning and review for energy efficient opportunities on all projects **7**

OUTCOME 5 Lighting throughout the City is efficient, cost-effective, and restores dark skies.

STRATEGIES

- A** The City shall maintain a current map and inventory of all exterior lights.
- B** The City shall reduce the number of overall lights in its control to save taxpayer money and reduce energy use and night-sky pollution associated with unnecessary lights.

ACTIONS

- Develop an ordinance to require energy efficient lighting for all new designs and projects **1**
- Develop fair criteria for light removal **2**
- Remove all unnecessary lights **3**
- Upgrade existing lights to LED or other efficient models **4**
- Refer to what other municipalities have done to maximize light removal and public satisfaction **5**
- Use cut-off lighting techniques to reduce light pollution of necessary lights **6**
- Incorporate land development regulations that require high efficiency lights for site plan review and development **7**

OUTCOME 6 The City of Lebanon has an economically sustainable, multi-modal transportation network, and municipal vehicle fleet.

STRATEGIES

- A** The City shall develop a multi-modal transportation system that provides employees, residents, and visitors ways to travel around Lebanon without driving alone.
- B** The City shall reduce emissions and costs of vehicles and machines in the municipal fleet.
- C** The City shall improve access to commuting options for City employees and partner with employers and surrounding towns to expand access to all regional commuters.

ACTIONS

- 1 Institute a policy that requires the purchase of energy efficient vehicles and equipment, and insert language into City Request for Proposals and Qualifications
- 2 Consider installing electric vehicle charging stations, for example at park and rides
- 3 Continue support of Advance Transit and promote new routes where appropriate
- 4 Establish new and participate in a regional network of park and ride facilities that connect to transit lines
- 5 Institute a City wide Anti-Idling Policy based on the current policy issued by the Department of Public Works
- 6 Purchase biodiesel fuel from local vendors for diesel machines and vehicles
- 7 Assess the travel patterns of the municipal fleet and identify more efficient routes
- 8 Examine ways to work with other employers, including the Lebanon School District, to leverage the tools and experience of the Smart Commute program
- 9 Implement recommendations of the City of Lebanon Sustainable Transportation Plan (2011), in partnership with the Upper Valley Transportation Management Association through the Smart Commute program
- 10 Set up an internal carpool matching system to help employees who live near one another share rides
- 11 Examine the feasibility of offering employees a compressed work week (four ten-hour days per week, for example)
- 12 Adopt a telecommuting policy and promote working from home to appropriate employees
- 13 Advocate for wide-reaching broadband service to improve telecommuting options
- 14 Continue to work with the Upper Valley Transportation Management Association to market commuting options and engage employees in a behavior change campaign
- 15 Assess the costs and benefits of offering employees a commuter benefit (extra time off for not driving alone, for example)
- 16 Continue to promote walking and biking in municipal employee wellness programs

OUTCOME 7

The City of Lebanon provides easy access to transportation systems and concentrates activities, amenities and commerce to enhance quality of life, retain small town charm, and increase energy savings.

STRATEGIES

- A** The City shall explore ways to allow residents and visitors to reduce vehicle miles travelled throughout the City.
- B** The City shall assess the current grounds care and landscaping practices within the City's control and explore more sustainable methods with less reliance on fossil fuels.
- C** The City shall explore ways to increase residents' and businesses' access to recycling and local foods.

ACTIONS

- 1 Establish park and ride facilities that connect to transit lines
- 2 Assess feasibility of bicycle rental stations throughout the City, located near bicycle lane networks
- 3 Develop sustainable methods for grounds care and landscaping
- 4 Incorporate green infrastructure -such as street trees, buffers and parks- in road, neighborhood and commercial design, to diminish stormwater runoff, enhance soil capacity to absorb stormwater, enhance the aesthetic value of the landscape, reduce greenhouse gas emissions, reduce the need for traditional stormwater management techniques and reduce energy demands from the urban heat island effect
- 5 Develop land use plans, policies, and regulations to encourage energy efficiency and renewable energy resources for renovation of existing structures and new construction
- 6 Sustainably manage City-owned forest land to provide high-value locally produced wood products, improve recreational use, and wildlife habitats
- 7 Promote locally produced foods and products
- 8 Promote the Lebanon Farmer's Market and encourage participation by local vendors
- 9 Provide compost disposal at City facilities
- 10 Designate locations for community gardens throughout the City
- 11 Design edible and native plant based functional landscapes throughout the City
- 12 Set up centrally located recycling drop off stations throughout the City that are walkable, visible and attractive
- 13 Study the feasibility of ground-source-heat pumps in new and upgraded municipal buildings
- 14 Encourage businesses to invest in renewable energy generation