



**ELECTRIC VEHICLE SUBCOMMITTEE
LEBANON ENERGY ADVISORY COMMITTEE (LEAC)
JULY 20, 2023 - 4:00 PM
COUNCIL CHAMBERS, CITY HALL OR
REMOTE VIA VIRTUAL PLATFORM
LEBANONNH.GOV/LIVE**

-
- 1. Call to Order**
 - 2. Approval of Minutes**
 - A. June 15, 2023
 - 3. Old Business**
 - A. Legislation/PUC Regulations/CPCNH/LCP updates
 - B. Landfill Gas to Energy Updates
 - C. Municipal Solar Updates
 - D. Charging and Fueling Infrastructure (CFI) Grant application
 - E. Report on Rental Decarbonization Pilot/Weatherization
 - 4. New Business**
 - A. SHARC Energy wastewater heat recovery - further discussion
 - B. Solar wall technology (renderings in packet)
 - C. Committee membership updates
 - D. EV Subcommittee Report
 - E. EV Motion: National Drive Electric Week Sponsorship (see Subcommittee draft minutes)
 - F. EV Motion: endorsement of Granite State Clean Fleet Grant for EV street sweepers (see Subcommittee draft minutes)
 - G. Recent and Upcoming Conferences or Webinars of Note
 - H. 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
July 20, 2023

AGENDA ITEM 2
Approval of Minutes

June 15, 2023



**LEBANON ENERGY ADVISORY COMMITTEE
CITY HALL COUNCIL CHAMBERS OR
REMOTE VIA VIRTUAL PLATFORM
4:00PM, THURSDAY JUNE 15, 2023**

MEMBERS PRESENT: Greg Ames (Chair), Sherry Boschert, Woody Rothe, James Mashal (alternate) REMOTE; Jon Chaffee (Vice Chair) REMOTE

MEMBERS ABSENT: Clifton Below (City Council Rep.), Devin Wilkie (Alternate Council Rep), Meghan Butts (alternate)

STAFF PRESENT: Tad Montgomery (Energy & Facilities Manager)

OTHERS PRESENT: Henry Bromberg
Max Sclar REMOTE
Aaron Miller of SHARC Energy REMOTE

1. CALL TO ORDER

Chair Ames called the meeting to order at 4:01pm.

2. APPROVAL OF MINUTES – May 18, 2023

A MOTION was made by Ms. Boschert to approve the May 18 2023 Meeting Minutes as presented. The Motion was seconded by Mr. Rothe.

Chair Ames appointed Alternate Member James Mashal to sit in the vote for Vice Chair Jon Chaffee. Mr. Mashal said he was not able to be present in person because he needed to pick up his child from daycare.

** The Vote on the Motion was approved by roll call vote: Mashal: aye; Boschert: aye; Rothe: aye; Ames: aye (4-0).*

A MOTION was made by Mr. Rothe that the Lebanon Energy Advisory Committee (LEAC) request that the Lebanon City Council redesignate the “high school student” seat on the LEAC to a seat for a regular member. The Motion was seconded by Ms. Boschert.

Chair Ames noted that he and Mr. Rothe have been on LEAC for six years and have never had a high school student representative attend a meeting or join the Committee. He said typically an alternate member is usually appointed to take the place of the high school student representative.

** The Vote on the Motion was approved by roll call vote: Boschert: aye; Rothe: aye; Ames: aye (3-0 Mashal abstaining from the vote).*

1
2 Vice Chair Chaffee joined the meeting (REMOTE) at 4:07pm. He said he was not present in
3 person because of illness.
4

5 Chair Ames asked that the Presentation from SHARC Energy be given next, which is out of the
6 order of the published meeting agenda.
7

8 **4. NEW BUSINESS**

9 **A. Presentation from SHARC Energy - Wastewater HVAC**

10
11 Mr. Aaron Miller, Eastern Regional Manager from SHARC Energy, shared his presentation on
12 Wastewater Heat Recovery (included in the Agenda packet).
13

14 He said Mr. Montgomery had contacted him to share information on Thermal Energy Networks
15 for Lebanon. He said SHARC is capturing energy (which is escaping from buildings via the
16 sanitary line) and using it to heat, cool, and make domestic hot water. He said the process is
17 decarbonizing the energy and reducing GHG emissions. He noted that hydronic heat is more
18 efficient than other heating systems, and its associated equipment is installed in mechanical
19 rooms, which leaves space for other features in buildings.
20

21 Mr. Miller explained the features and details of SHARC's two product lines: the "Piranha" and
22 the "SHARC."
23

24 He explained that the systems can either process sanitary outflow before it leaves the building, or
25 process water from the sanitation line underground after it leaves the building. He said he'd be
26 happy to answer any questions or provide more details to the City Engineer and staff. Mr.
27 Montgomery said he was thinking this type of system might work for the Taylor St.
28 redevelopment project in downtown Lebanon, and a possible district heating system could
29 include the Lebanon Mall possibly up to the fire station.
30

31 Mr. Max Sclar joined the meeting at 4:35pm.
32

33 Ms. Boschert asked about the cost of installing and operating the system. Mr. Miller said it
34 depends on the scale of the project. He said the SHARC product (which is the larger of his
35 SHARC's two systems) provides a bigger ROI. He said he could estimate the costs if given more
36 information about a particular project.
37

38 Mr. Rothe and Mr. Miller discussed the 140-degree temperature output. Mr. Miller said the
39 output temperature varies and can be less than 140 degrees. Ms. Boschert said the City should
40 look into it more. Chair Ames asked if he could share the long version of the presentation with
41 other members of the public and Mr. Miller said it can be shared.
42

43 Mr. Mashal asked if there's a way to estimate the amount of recoverable energy that would be
44 output in a particular area, based on the number of residents in that area. Mr. Miller said his
45 company uses ASHRAE assumptions to estimate output volume. He said, if no usage data is
46 available, assumptions about the amount of energy produced by a sewer system can be made

1 based on the size of the pipeline. Mr. Miller said that the best analysis for recoverable heat can
2 be conducted if there is data for a sewer line that includes flow rates and temperature.

3
4 Mr. Miller said SHARC Energy has been in operation since 2010. He said there are several
5 systems in operation all over the country and in Canada. He said he would provide the list of
6 systems in operation.

7
8 Mr. Miller noted that SHARC Energy's systems are fully sealed so they can be installed inside a
9 building without odor. He said SHARC Energy's main competitors, Huber and Uhrig, do not
10 have fully sealed systems.

11
12 Chair Ames asked again that the group discuss several agenda items out of the order of the
13 published meeting agenda.

14 15 16 **3. OLD BUSINESS**

17 **D. Charging and Fueling Infrastructure (CFI) Grant Application**

18 Ms. Boschert said an application for a \$5.2 million grant for Charging and Fueling Infrastructure
19 funding from the Department of Transportation (DOT) was submitted this week. She said the
20 grant is for funding to install public charging stations for electric vehicles in Lebanon. She said it
21 was the first federal grant application she had ever worked on. She said the grant application text,
22 including a budget itemization, is available to LEAC members via Mr. Montgomery. She said
23 this application will be helpful as a potential template for future CFI and other federal grant
24 applications. She said a lesson learned is that community involvement is important for these
25 kinds of grant applications and data needs to be collected continuously on community
26 engagement efforts. She said she hopes to involve other communities, such as Hanover, and
27 Hartford, to talk about what the Upper Valley's needs are for EV charging and potentially apply
28 collaboratively for future grants.

29
30 Ms. Boschert said she should hear in September whether any funds will be granted to Lebanon.
31 She said, if so, once a grant contract is signed, they would have 18-24 months to install the
32 charging stations. She said it is a 5-year grant period, so operation and maintenance of the
33 charging stations would be covered for five years.

34
35 Ms. Boschert thanked Rebecca Owens and Phil Busch for their help with the grant application.
36 She said they both contributed a great deal to the project.

37
38 Mr. Montgomery said he would reach out to other Upper Valley communities about arranging a
39 meeting time in a few weeks to talk about collaborating for future grant funding applications.

40
41 _____
42
43 Chair Ames said he would like the City to investigate the SHARC Energy technology (presented
44 earlier in the meeting) further. Mr. Mashal asked if this kind of project would be prioritized over
45 other current projects. Ms. Boschert said if the City has personnel resources to undertake the
46 project, it should be looked into it further. Mr. Rothe noted that Mr. Below has been interested in
47 geothermal technology, so this technology should be considered as well. Chair Ames said he

1 thought the systems described are less expensive than geothermal systems. Mr. Mashal said he
2 has the feeling that there will be not that much heat output, given the Lebanon's size and climate.

5 **B. Landfill Gas to Energy Updates**

6 Mr. Montgomery said the City's Solid Waste Superintendent said she applied for a revised air
7 permit and expects it to be issued by the end of the month. Mr. Montgomery said he sent to
8 DPW an overview of the potential for investment tax credits for the project. He said they could
9 get up to 60% of the project refunded.

11 **C. Municipal Solar Updates**

12 Mr. Rothe said there is a lot of construction going on at the Prospect Hill pumping station. He
13 said the reason for the pumping station is to increase the output for Hillcrest, for which he said
14 demand is increasing. He said he thought only SolarFlect is interested in installing trackers at the
15 site. Mr. Montgomery said ReVision is now interested in single access trackers, and that
16 Solarflect and two other companies have also submitted pre-proposals for the project.

18 **A. Legislation/PUC Regulations/CPCNH/LCP Updates**

19 No update

21 **E. Report on Rental Decarbonization Pilot/Weatherization**

22 No update

25 **4. NEW BUSINESS**

27 **C. Recent and Upcoming Conferences or Webinars of Note**

28 Ms. Boschert said Judy Colla of the Hanover Community Power invited LEAC to a
29 reception on July 11 at 4:00pm at the Irving Institute to welcome the new executive director of
30 Community Power Coalition of New Hampshire (CPCNH). She said she sent the members of
31 LEAC an emailed invitation. She said they would like a member of each community that
32 launched CPCNH to give a two-minute talk about the main goals of their community power
33 group. Chair Ames said the obvious person would be Mr. Below. Ms. Boschert said she would
34 email him, but asked LEAC members to speak to him if they see Mr. Below before the event.
35 Mr. Montgomery said he would also attend if his supervisors approve his attendance.

37 Ms. Boschert said, before the CFI grant application project, she had told the EV subcommittee
38 that she wanted to have more employers involved in the effort. She said she suggested employers
39 could offer their employees incentives to drive EVs. She said she invited several members of the
40 community to gather on Tuesday, June 20 at 9:00am on Zoom and share ideas. She said it is not
41 an official EV subcommittee meeting. She said she hopes to at least recognize employers in the
42 community who are EV Friendly and have incentives for employees by Labor Day.

45 Ms. Boschert left the meeting at 5:32pm.

47 ***The meeting was suspended at 5:32pm because of the lack of a quorum.***

1 _____
2
3 **B. EV Subcommittee Report**
4

5
6 **D. EFM Report**
7

8 **5. OPEN TO THE PUBLIC**
9

10 **6. FUTURE AGENDA ITEMS**
11

12 **7. ADJOURNMENT**
13

14 Respectfully Submitted,
15 Paula Roux
16 Recording Secretary

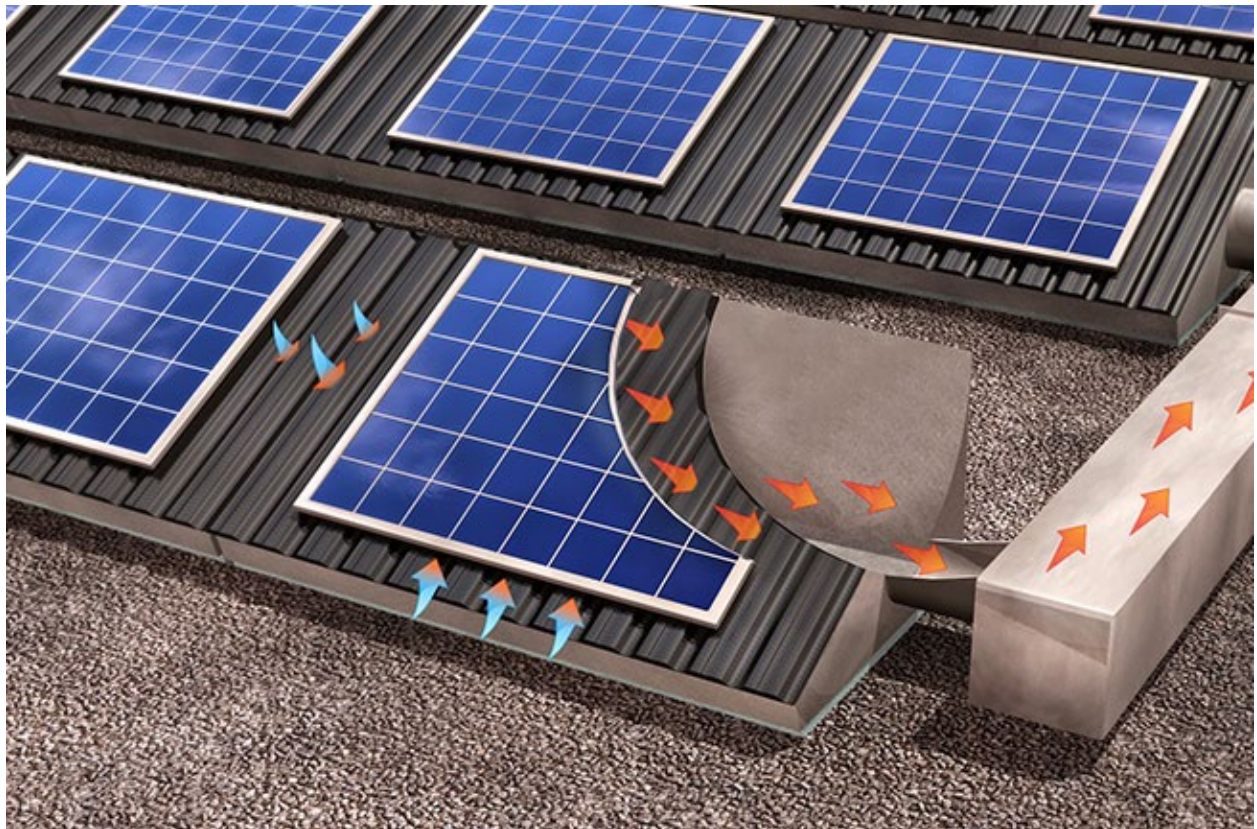
AGENDA
Lebanon Energy Advisory Committee
July 20, 2023

AGENDA ITEM 4B
Solar Wall Technology

Solar Wall Technology







AGENDA
Lebanon Energy Advisory Committee
July 20, 2023

AGENDA ITEM 4D
EV Subcommittee Report

EV Subcommittee Report



EMPOWER
WORKPLACE CHARGING

Access to Charging Where
We Live, Where We Play,
and Most Importantly,
Where We Work!

EMPOWER:

Equitable **M**obility **P**owering **O**pportunities
for **W**orkplace **E**lectrification **R**eadiness



As federal, state, and regional investments continue to build toward an electric-fueled future, where to “plug in” is a topic most electric vehicle (EV) drivers are familiar with. Workplace charging (WPC) provides great convenience for EV owners and, in some cases, is essential for commuters that do not have access to charging at home.

As an employer, you have a unique opportunity to capitalize on Federal, State, and local utility support for WPC. Demonstrating your workplace’s corporate leadership and sustainability commitment while providing enhanced employee benefits.

PROJECT GOALS:

- 2,000 Workplaces Engaged
- Over 40% of Workplace Charger Install Commitments from Workplaces of Diverse Backgrounds or Settings
- 3,500 EV Charger Ports Installed

FIRST AND ONLY EQUITY-FOCUSED, NATIONWIDE WORKPLACE CHARGING PROJECT

The EMPOWER WPC project is catalyzing WPC adoption by connecting with workplaces nationwide, reducing barriers through education and technical assistance, and creating a one-stop shop for helpful workplace-focused resources.

As the first and only equity-focused, nationwide WPC project in the United States, our project focuses assistance in workplaces located in or employing members of communities that have experienced historical disinvestment. Employees in these communities are more likely to face fundamental barriers to accessing at-home EV charging. And when

estimates show 80% of EV charging today happens at home, EMPOWER is reducing barriers to these employees accessing EVs and the economic benefits of driving electric.

Funded by the U.S. Department of Energy and managed by the Columbia-Willamette Clean Cities Coalition, in partnership with East Tennessee Clean Fuels, the project partners with over 30 Clean Cities Coalitions across the country to foster relationships with local workplaces and provide ongoing support for workplaces to take their WPC project from start to finish.

EMPLOYER BENEFITS



RESOURCES AND RECOGNITION

Workplaces partnering with EMPOWER have access to local and national EV specialists. Resources include best practices for installing WPC, developing internal employee programs, connections to local utilities and incentives, and access to answers.

A key component of EMPOWER is providing recognition for workplaces' installations through a wide variety of local and national channels. Success stories of partner workplaces will be shared to highlight sustainability leadership and encourage other employers to install EV charging at their workplaces successfully.

CONNECT WITH YOUR LOCAL CLEAN CITIES COALITION TODAY!

Employers can partner with EMPOWER by signing a nonbinding letter of interest to install WPC. Connect with your local Clean Cities Coalition, which will work with you at every step to provide tailored resources, tools, technical support, and recognition of your employee EV charging commitment.



www.workplacecharging.com

CONTACT EMPOWER TO GET STARTED

Contact us using the below QR code or emailing EMPOWER at

empower@cwcleancities.org



Scan the QR Code
to Learn More!



A Columbia-Willamette Clean Cities-led project in partnership with East Tennessee Clean Fuels



Elective Pay & Transferability

Elective Pay (Direct Pay)

- Proposed guidelines from the IRS released in June
- Elective pay credit allows tax-exempt and governmental agencies to benefit from tax credits from which they were previously ineligible based on their lack of federal tax burdens; the credit comes as a refund
- Applies to 12 of the Inflation Reduction Act’s tax credits

Vehicles

Credit for Qualified Commercial Clean Vehicles (§ 45W)

For purchasers of commercial clean vehicles. Qualifying vehicles include passenger vehicles, buses, ambulances, and certain other vehicles for use on public streets, roads, and highways.

Credit Amount: Up to \$40,000 (max \$7,500 for vehicles <14,000 lbs) ^a

Alternative Fuel Vehicle Refueling Property Credit (§ 30C)

For alternative fuel vehicle refueling and charging property, located in low-income and non-urban areas. Qualified fuels include electricity, ethanol, natural gas, hydrogen, and biodiesel.

Credit Amount: 6% of basis for businesses and can increase to 30% if PWA is met.

Elective Pay Credits

- Energy Credit (48), (Form 3468, Part VI)
- Clean Electricity Investment Credit (48E), (Form 3468, Part V)
- Renewable Electricity Production Credit (45), (Form 8835, Part II)
- Clean Electricity Production Credit (45Y)
- • Commercial Clean Vehicle Credit (45W), (Form 8936, Part V)
- Zero-emission Nuclear Power Production Credit (45U), (Form 7213, Part II)
- Advanced Manufacturing Production Credit (45X), (Form 7207)
- Clean Hydrogen Production Credit (45V), (Form 7210)
- Clean Fuel Production Credit (45Z)
- Carbon Oxide Sequestration Credit (45Q), (Form 8933)
- • Credit for Alternative Fuel Vehicle Refueling / Recharging Property (30C), (Part 8911, Part II)
- Qualifying Advanced Energy Project Credit (48C), (Form 3468, Part III)

Eligibility

- State and local governments, tribal entities, rural coops, and other tax-exempt entities
- **Key point:** applies to entities that were previously excluded from tax credits due to not having a tax burden
- If the entity does have a burden, payment will first offset any tax liability of the entity, and any excess will be refundable.
- **Example:** A city buys a large electric garbage truck for municipal waste collection. Through direct pay, the city can get up to 30% or \$40,000, whichever is lower, of the cost of the truck back by using the Commercial Clean Vehicle Credit.

Elective Pay Process

- Identify the credit
 - [Commercial Clean Vehicle Credit \(45W\)](#)
 - [Alternative Fuel Vehicle Refueling / Recharging Property Credit \(30C\)](#)
- Complete your project and put it in service
- Determine the tax year; this will set your filing deadline
- Complete pre-filing with the IRS
- File the tax return – elective pay, form 990T
- Receive your refund after your return is accepted



Credit Transferability – 30C

- Transferability allows a taxpayer who generates certain clean energy tax credits to **elect to transfer** (i.e., sell) all or a portion of a tax credit to an unrelated third-party transferee (i.e., buyer) in exchange for cash.
- The **buyer and seller negotiate** and agree to the terms and pricing.
 - The transferor is sometimes called the "seller," and the transferee is sometimes called the "buyer."

Transferable Tax Credits

- Energy Credit (48), (Form 3468, Part VI)
- Clean Electricity Investment Credit (48E), (Form 3468, Part V)
- Renewable Electricity Production Credit (45), (Form 8835, Part II)
- Clean Electricity Production Credit (45Y),
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- Advanced Manufacturing Production Credit (45X), (Form 7207)
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- Qualified Advanced Energy Project Credit (48C), (Form 3468, Part III)

Next Steps

- Awaiting *final* guidance
- Public comment period is open until August 14, 2023
- Check for updates at <https://www.irs.gov/credits-deductions/elective-pay-and-transferability>

AGENDA
Lebanon Energy Advisory Committee
July 20, 2023

AGENDA ITEM 4E
EV Motion: National Drive Electric Week Sponsorship (see Subcommittee draft minutes)

EV Motion: National Drive Electric Week Sponsorship



LEBANON ENERGY ADVISORY COMMITTEE
ELECTRIC VEHICLE (EV) SUBCOMMITTEE

MEETING MINUTES - Draft

City Hall Council Chambers

July 13th, 2023

3:00 PM

MEMBERS PRESENT: Sherry Boschert (Chair), Greg Ames (remote), Clifton Below

MEMBERS ABSENT: Meghan Butts (alternate)

STAFF PRESENT: Tad Montgomery – Energy & Facilities Manager (EFM)

GUESTS PRESENT: Jessica Stoll (remote) – Electrification Coalition, starting at 3:40 PM

CALL TO ORDER: Meeting was called to order by Sherry Boschert at 3:03 PM

ACCEPTANCE OF MINUTES

Greg Ames moved to accept the May, 2023 LEAC EV minutes; Clifton Below seconded. The minutes were approved unanimously without change.

OLD BUSINESS

GM Level 2 Charger

There was no news to report.

Upper Valley Collaboration on EVSE Planning & Grants

Tad Montgomery said that he had spoken with rep.'s in Hartford and Hanover to reconvene the discussion and had reached out to New London but had not heard back. When he does, he will reach out to the Regional Planning Commission as well and set up a meeting.

NEW BUSINESS

Workplace Charging Project

Sherry Boschert described work to date on this project, formerly known as EV-Friendly Employers Project. There was a meeting this past week with a few key people to discuss the project. They would like to recognize local employers who have gone above-and-beyond in making EV charging available to employees, perhaps at an event in September.

Ms. Boschert described a new federal program called Empower (workplacecharging.com) that is providing technical assistance to employers to install EV charging equipment (EVSE). The local organizations enlisted to provide this TA are the Vermont and NH Clean Cities Coalitions.

Ms. Boschert mentioned that Hypertherm participated in the event by sending a video of the work that they have done. This includes a phone app that schedules EV charging for staff and lets the next user know when the car before them is done. She is encouraging Hypertherm to make the app available for other companies since this resolves a major bottleneck with workplace charging.

Ms. Boschert said that she had sent Nik Coates documents regarding an EV carshare program at his request. He followed up by asking LEAC to make a recommendation as to whether this is a project that the EFM should pursue. The sentiment of the Subcommittee was that a carshare program should be developed when and if the CFI grant is awarded to the City.

National Drive Electric Week (NDEW)

Ms. Boschert said that there had been a preliminary organizing meeting for a fall NDEW, which is tentatively scheduled for 10 AM to 3 PM either Saturday Sept. 30, or Sunday Oct. 1. She has inquired as to whether the event could be held behind City Hall, with speakers in the Council Chambers, and during the meeting she got a text from the City Manager with a tentative 'Yes.'

MOTION: The EV Subcommittee recommends to LEAC that LEAC be a sponsor and lead organizer of the National Drive Electric Week event in Sept./Oct.

Motion made by Sherry Boschert, seconded by Clifton Below, approved 3:0

Elective (Direct) Pay Presentation

Jessica Stoll of the Electrification Coalition gave a presentation on the new IRS/Dept. of Treasury program to reimburse government entities and non-profit organizations for the cost of installing renewable energy systems. She gave the outline for the program but said that many of the guidelines are still under development. Public comments are being accepted until August 14th. She gave a slide show and said that she would forward the slide deck to the group. One question raised was whether this incentive could be combined with other federal incentives and grants, such as CFI or GSCF.

NH Granite State Clean Fleet Grant (GSCF)

Tad Montgomery gave an overview of work being done by Rebecca Owens and DPW Staff to work on this grant application. It is a one-time grant and the state has \$10M to award. It covers up to 95% of the total cost, includes the cost of EVSE (including utility upgrades), and potentially a solar arrays to charge the EV's. At this point the City is looking to replace its two street sweepers with electric versions, with possible EVSE at the landfill. One issue raised was the need for community engagement to bolster the grant application. Sherry Boschert mentioned a possible survey to solicit public input. Clifton Below recommended the Bike Ped Committee be approached. Tad Montgomery said that he would reach out to Sustainable Lebanon, and he asked the EV Subcommittee for an endorsement for the grant as well.

MOTION: The EV Subcommittee recommends to LEAC that LEAC endorse the Granite State Clean Fleet application by the City of Lebanon for one or two electric street sweepers.

Motion made by Clifton Below, seconded by Greg Ames, approved 3:0

City Fleet Electrification Plan

The Committee discussed the Electrification Plan that has been drafted by Tad Montgomery. Sherry Boschert will collect suggested edits and changes after the Committee members have had time to review the Plan more thoroughly and send them to Tad and City Management. She alluded to a plan developed by the City of Philadelphia and mentioned parts of it that she thought worth emulating.

FUTURE AGENDA ITEMS

National Drive Electric Week
GSCF Grant

NEXT MEETING

The LEAC EV Subcommittee generally meets the 2nd Thursday of the month, 3-4 PM, in the Council Chambers of City Hall. An online option is available. The next meeting is scheduled for Thursday, August 10th at 3 PM. See the calendar on the City's home page to confirm time and place: <https://lebanonnh.gov/>. For online options visit: <https://lebanonnh.gov/live>.

ADJOURNMENT

The meeting was adjourned at 4:19 PM.

Respectfully submitted,

DRAFT

AGENDA
Lebanon Energy Advisory Committee
July 20, 2023

AGENDA ITEM 4E

EV Motion: Endorsement of Granite State Clean Fleet Grant for EV street sweepers (see Subcommittee Draft Minutes)

**EV Motion:
Endorsement of Granite
State Clean Fleet Grant
for EV street sweepers**



LEBANON ENERGY ADVISORY COMMITTEE
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FUTURE AGENDA ITEMS

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GSCF Grant

NEXT MEETING

The LEAC EV Subcommittee generally meets the 2nd Thursday of the month, 3-4 PM, in the Council Chambers of City Hall. An online option is available. The next meeting is scheduled for Thursday, August 10th at 3 PM. See the calendar on the City's home page to confirm time and place: <https://lebanonnh.gov/>. For online options visit: <https://lebanonnh.gov/live>.

ADJOURNMENT

The meeting was adjourned at 4:19 PM.

Respectfully submitted,

DRAFT