



## **ENERGY & CLIMATE COMMITTEE MEETING AGENDA**

Wednesday, April 3, 2019, 8:00 AM

2<sup>nd</sup> Floor Conference Room, City Hall

### **Members:**

Dr. Ann Shedd, Chair  
Peter Hansel, Vice Chair  
Terry Clark, Councilor  
Chris Brehme  
Jess Baum  
Jake Pipp  
Ken Dooley  
Larry Dachowski, Alternate  
Aperr Naadzenga, Alternate  
Cary Gaunt, Alternate

### **Staff:**

Rhett Lamb, ACM/Planning Director  
Mari Brunner, Acting Planner

1. Call To Order and Roll Call
2. Approval of March 5, 2019 Meeting Minutes
3. ECC Meeting Schedule
4. Monadnock Earth Festival Saturday, April 20, 2019
5. NHSaves “Button Up” Workshop Recap
6. Legislative Updates
  - a. HB 365 “Relative to net energy metering limits for customer generators”
  - b. SB 122 “Relative to expenditures from the energy efficiency fund”
  - c. SB 165 “Relative to net energy metering by low-moderate income community solar projects”
7. Energy Plan: Communications and Outreach intern
8. Committee Membership
9. New Business
10. Next Meeting: Wednesday, May 1, 2019

**ENERGY & CLIMATE COMMITTEE MEETING AGENDA**

Wednesday, March 6, 2019

8:00 AM

2<sup>nd</sup> Floor Conference  
City Hall

**Members:**

Dr. Ann Shedd, Chair  
Peter Hansel, Vice Chair  
Terry Clark, Councilor  
Chris Brehme  
Jess Baum  
Jake Pipp  
Ken Dooley  
Larry Dachowski, Alternate  
Aperr Naadzenga, Alternate  
Cary Gaunt, Alternate

**Guests:**

Nancy Gillard  
Charles Daloz  
Wes Cobb  
Fred Ward  
Bill Bradford Hutchinson  
Scott Malansky

**Staff:**

Rhett Lamb, ACM/Planning Director  
Mari Brunner, Acting Planner

**1. Call to Order and Roll Call**

Dr. Shedd called meeting to order 8:05 am and roll call was conducted.

**2. Approval of January 24, 2019 Retreat Minutes**

**Mr. Clark moved to accept the minutes of January 24 with revisions, Mr. Dooley seconded and the motion passed unanimously.**

*Revisions are as follows:*

- Page 4 of 37, fourth full paragraph, lines 4-5 change: "REGGI" to "RGGI."
- Page 4 of 37, fourth full paragraph, fourth line from bottom, state that the Ready for 100 monthly phone call meeting "included" the "Hanover" town manager.
- Page 5 of 37, third paragraph, change: "brad-brushed" to "broad-brushed."
- Page 8, second to last paragraph, third line change: "space" to "C-PACE."
- Page 9, change: "REGGI" to "RGGI."

**3. Approval of February 5, 2019 Meeting Minutes**

**Mr. Clark moved to accept the minutes of January 24 with revisions, Mr. Dooley seconded and motion passed unanimously.**

*Revisions are as follows:*

- Page 20 of 37, first full paragraph, change: "UMASS NH" to "UMASS Amherst."

**4. ECC Meeting Schedule**

Dr. Shedd stated that there was discussion about changing the meeting times for ECC. She said Ms. Baum suggested at the January Retreat that they work out some alternation of longer, late afternoon meetings with morning meetings. She asked if there are any thoughts from members

about how to restructure ECC's meeting times. Vice Chair Hansel asked how changing the meeting times would affect the minute-taker's time and the expense involved with adding minute-taker hours. Ms. Brunner stated that the overall number of hours would not change; the proposal was to add a two hour, quarterly meeting with a focused agenda topic and change the regular monthly meeting back to one hour (instead of 1.5 hours).

Dr. Shedd asked members if rescheduling meeting times would allow enough time for their tasks. Councilor Clark suggested that it would be helpful to have one item on the schedule to focus on during the late afternoon meeting times. Vice Chair Hansel said they also could consider keeping the time the same and instead shift the focus to one topic. Ms. Baum stated that having a facilitator for the afternoon meeting to guide them through a discussion could be an added benefit. Dr. Shedd asked Ms. Brunner if a staff person could take the role of facilitating the meeting every month or every quarter. Ms. Brunner said she could take on more of a facilitative role instead of just serving as a staff resource. Ms. Gaunt stated that it is beneficial to have focused meetings and more time as long as there is a clear direction of how that time would be used. She suggested identifying discrete meeting topics prior to their monthly meetings and then determine what the Retreat meeting topics will be from those discussions.

Dr. Shedd stated that Councilor Clark had previously suggested taking some of the work and assigning calendar dates to the tasks to guide what topics they want to address at the quarterly extended meetings. She asked for member feedback on that idea. Councilor Clark stated that he does not have a preference for morning or afternoon meeting times and asked what the best time would be for other members. Ms. Brunner stated that the last Retreat was from 4 -6 pm and asked if that would be a good time for their quarterly meetings. Dr. Shedd said it would be helpful if the times were consistent every quarter. Ms. Baum suggested a 2-4 pm time slot. Ms. Brunner said she will send out an online poll so people can indicate their general availability. She suggested booking the meetings every third month and she will book the dates out for the rest of the year. She said the monthly meetings would be an hour instead of an hour and a half. Dr. Shedd said at the first April monthly meeting they will identify the topic of discussion for their April Retreat meeting. Ms. Brunner suggested that the first topic of discussion be centered on the community outreach and engagement.

## **5. Working Group Updates**

**a. Communications-** Ms. Baum stated that she and Ms. Brunner met and identified that it would be most helpful for the Communications group to create a strategic plan around communications and then bring that plan back to the committee for feedback. Implementation of the communications strategy would be a separate process. She said that one of the items she and Ms. Brunner discussed was creating a project website, or a preliminary landing page, that outlines the scope of what they are doing, before they begin PR work. Ms. Baum said it is a lot for one group to create a strategy and then do the public engagement piece as well. Ms. Brunner stated that they jointly decided more clarity regarding the role of the Communications work group is needed.

Ms. Brunner stated that she reached out to Antioch University to see if there are students interested in interning with the City and there is a potential student who may be interested in helping with community engagement and outreach. Ms. Brunner said she will provide an update to the ECC once she knows more. Ms. Brunner said if an intern does join the City, that person could work with the ECC Communications work group to help with developing a

communications strategy. Ms. Baum added that if the April Retreat meeting is focused on communications and outreach, the Communications subcommittee could outline a plan prior to the Retreat so that it could be workshopped during the Retreat so they could walk away with a plan.

Dr. Shedd asked what the ECC wants communicated to the community. She said a lot of the public engagement around developing the plan is exploring what the different sectors of the community find challenging and find additional ways to achieve those goals. Dr. Shedd stated that there are a number of events in 2019 that would be good opportunities to interact with the public and she would like to take advantage of those opportunities as the year is flying by already. Vice Chair Hansel stated that as discussed in the Retreat, the Radically Rural event will take place in the fall and one of the conference tracks will be focused on Renewable Energy. He noted that this could be an opportunity to communicate a message to the community. Ms. Brunner said the Radically Rural event was scheduled for September 19 and 20, and there will be a session specifically focused on how to reach 100% renewable energy. Since the focus of the conference is on rural communities, it could be a particularly useful session.

Dr. Shedd emphasized that the Radically Rural event is not just a local or regional conference; it draws widespread attention and national-level speakers. Ms. Baum said last year the conference did not necessarily focus on the local community; however, the culmination “Connect” event was focused on local initiatives and perhaps the ECC could debut their plan at that event to engage local citizens. Vice Chair Hansel said each of the conference tracks has a different topic, and one of those tracks could include a presentation on how a community like Keene can move forward on 100% renewable energy. Dr. Shedd said the other two sessions for the Energy track are the Rural Efficiency Challenge and EVs and charging infrastructure (this is subject to change), and increasing the penetrance of renewables.

Dr. Shedd asked the Communications work group to have something firmed up by the April Retreat and asked Ms. Brunner to keep the committee updated on the possibility of an intern to help with implementation.

**b. Energy Plan/Data Collection-** Dr. Shedd said there is a handout attached to the packet on page 25 of 37 which summarizes data collected by Vice Chair Hansel with help from Tom Webler. Ms. Brunner said it represents a snapshot of solar installations in Keene at the end of 2018, including the municipal installation at 350 Marlboro Street. Ms. Brunner said she also found out that there is a dashboard for the solar installation on City Hall which is a lot smaller than the one on Marlboro Street. Councilor Clark suggested that the link for the 350 Marlboro Street dashboard be posted on the City website. Ms. Brunner said she thinks there is already a link on the City website but the “Environmentally Preferred Purchasing committee” (an internal staff committee) is looking into creating a Sustainability page on the City website that will link to both of the solar dashboards. She said they have started discussions with other departments to design a website and create content to put on the page.

Vice Chair Hansel stated that he, Mr. Webler and Ms. Brunner have been working on identifying and quantifying solar installations in Keene. He stated that through contacting individual contractors that have installed systems, they are confident that they have about 95% of all the data; however, they do not have all of the smaller residential installations. He said as of last year they decided it was important to monitor energy usage for the next 20-30 years. He said the Greenhouse Gas Emissions report from 2015 did not focus on the type of energy and where it is

coming from. Vice Chair Hansel said they have identified 77 installations in Keene with a total capacity of almost 2200 megawatts, however, they have not yet figured out a good way of translating that number into the actual energy produced during the year as that is influenced by local weather, the tilt of the array and other factors. He said it is hard to use a blanket conversion rate because of those factors. He said out of the 77 installations, residential is the largest number of solar installations but not the largest amount of energy being produced in the region. He said the largest are the commercial, industrial and residential sectors which represents about 50% of installations. He noted that the Target store has the largest array.

Vice Chair Hansel said this information is only important as it relates to the percentage of energy that is being consumed in Keene. He said information about what energy comes into Keene has been difficult to obtain from Eversource; however, they have a few new leads that might lead to them learning what number of kilowatts are being consumed in the City and help determine what percentage of that energy usage is coming from solar. He said they may be able to use that information as a baseline to monitor solar usage in the coming years. Vice Chair Hansel said solar is only one component of energy usage and there is still a lot to do in terms of creating a baseline of the types of energy being used in the thermal and transportation sectors so they can monitor their progress.

Dr. Shedd asked Ms. Brunner how energy use by sector was calculated for the greenhouse gas emissions study. Ms. Brunner replied that greenhouse gas emissions were calculated by taking the total amount of energy used per energy source and then multiplying that number by a conversion factor. Each different energy source has a different conversion factor to translate it to greenhouse gas emissions. She said, for example, you estimate how much propane is consumed in the community and then multiply by the conversion factor specific to propane. She said the energy use numbers for the community-wide inventory were all estimates and did not represent actual amount of energy consumed. She said the estimates were based on data from the U.S. EIA and Eversource which was then downscaled to Keene. The methodology treats Keene as an average community in New Hampshire and it was not an accurate representation of Keene as a unique community.

Vice Chair Hansel agreed that past data is based on statewide or regional information and the goal is to find out what is actually happening in Keene. He said the reason they should monitor this is to figure out where the community's energy is coming from. He said each every year each kilowatt can be tracked as to where it is coming from, for example, determining what percentage is coming from renewables, nuclear, natural gas and those percentages change a bit every year.

Councilor Clark stated that the City is getting ready to pass a new ordinance that would increase solar installation by removing the \$30K cap on the property tax incentive for solar and wind installations. He said the new ordinance would remove the cap and make it unlimited so that any solar installations that businesses or homes invest in would not be included in the tax assessment. Councilor Clark shared that the new business owner at the old church on Court Street will be investing \$100K to put two large banks of solar panels on the south side of the building which will power heat pumps to offset the historic costs of ten thousand gallons of heating oil to heat the building per year. He suggested that the ECC could keep track of those types of successes to ensure that homeowners are aware of the new ordinance and the tax benefits. Ms. Gaunt asked for clarification on if the business owner will not be taxed on his \$100K investment. Councilor Clark replied the business owner will have an assessment on the building and the solar installations will not be added to the total of what the building is worth for tax purposes. Dr.

Shedd asked if that is specific to the downtown and Councilor Clark replied that the tax incentive is city-wide and not just for homeowners. Ms. Brunner said right now there is \$30K cap which was originally geared towards residential installations and they had discussed at an earlier meeting that only 29 out of approximately 60 or so people had taken advantage of that tax incentive. She said this is the same tax incentive; however, now it has been increased so it can be utilized by commercial customers or customers with a larger system than \$30K would cover.

## **6. ECC Energy Vision & Values Statements**

Dr. Shedd stated that Ms. Brunner has developed drafts of the values and vision statements from the ECC Retreat discussions. Ms. Brunner said she forgot to include them in the packet for the meeting. Dr. Shedd said she had written up some drafts as well that they can review. Ms. Brunner said she would prefer to send the drafts she created out to the committee as she does not want to have two versions floating out there. Ms. Brunner said she can read them aloud for the committee. Dr. Shedd noted that there is a two page document on page 26 and 27 of the packet presenting a summary of purchasing models in the region and how other communities working towards 100% renewable energy are sourcing their energy for their communities whether is municipally-owned utilities or not. She said it is fairly complicated so she provided links to the sources. Vice Chair Hansel asked if all of the sources are enabled by legislation. Dr. Shedd replied in the affirmative.

Ms. Brunner pulled up the most recent draft of the Vision and Values statement on her computer and the committee revised her drafts together and came up with the following:

### **Vision Statements – “What we are trying to achieve” (DRAFT)**

- ✓ We envision a future where our homes, transportation system, and economy are powered by renewable, clean, and affordable energy sources which promote health and minimize harm to the well-being and resilience of the community and ecosystem.
- ✓ The production and distribution of energy for electricity, heating, cooling, and transportation contributes to a flourishing local economy
- ✓ Everyone, including marginalized and vulnerable populations, has access to affordable and clean renewable energy.
- ✓ Our energy system is able to adapt to changing climate and economic conditions as well as new and emerging technologies.

### **Values Statements – “How we get there” (Draft)**

- ✓ We value everyone’s input, and will actively engage a wide range of stakeholders in the process of achieving and maintaining our vision for a clean and affordable renewable energy future.
- ✓ Goals and actions in the plan will be based on facts and evidence-based strategies.
- ✓ We are not in this alone; we will reach out to peer communities to exchange ideas and inspiration.
- ✓ As we work toward our goals, new ideas and technologies will emerge which may change our approach. The process for achieving our vision must be transparent, flexible, and adaptive.

- ✓ In order to engage everyone, our communications and messaging must be accessible and focus on the benefits to us as a community and as individuals. All should be empowered to take an active role in achieving our vision.
- ✓ We will work towards a paradigm shift from that of “reducing harm” to one of promoting a positive future.

Ms. Gaunt noted the importance of being clear in the wording and distinguishing between human well-being and the well-being of entire systems.

Dr. Shedd said there was emphasis on life cycle impacts. She will take out the “meets the needs” part. Ms. Baum stated that the language around “harm reduction” is tricky because the concept differs between people and a human-specific lens is often used. She recommended talking about net-positive impacts instead of harm-reduction.

Ms. Gaunt agreed that the positive language is important. Ms. Baum emphasized that the words “restore” and “regenerate” are important because they are aiming to not only minimize negative impacts but also to have a net positive impact. Ms. Brunner asked if they want to wordsmith the first sentence to address the net-positive impact or would it be helpful to have another statement that elaborates on that concept more. Vice Chair Hansel said he is in favor of the former as less is more. Ms. Brunner asked if members want to include a statement about “contributing to a flourishing economy” and all agreed. Dr. Shedd suggested being clear about what “thermal” means. Ms. Gaunt asked if they need to be clearer about the life cycle implications and Ms. Brunner replied that she kept “the production and distribution of energy for electricity, heating, cooling, and transportation contributes to a flourishing local economy” in the statement. Dr. Shedd asked how they can incorporate life cycle and safety implications and Vice Chair Hansel replied they need to focus on brevity of the statements. Ms. Brunner stated they should address “cradle to cradle” and safety.

Ms. Brunner said that there were not many changes to the values statements. Dr. Shedd replied that the one change she made was to move the statement about “evidence-based strategies” higher on the list to emphasize that they are working on the basis of facts. Ms. Gaunt suggested adding that they are shifting the paradigm from that of minimizing negative impacts to one of regenerating or restoring place and promoting a positive future. Members agreed with that change.

Ms. Brunner asked members if it is okay to do another iteration of edits and include them in the packet for the next month. Members agreed that they will approve the drafts at the next meeting. Ms. Brunner asked if these statements were intended to be brought to the public and members agreed.

## **7. Staff Updates – Hanover and Concord approaches to Energy Plan**

Ms. Brunner stated that she and Mr. Lamb met with the Town Manager of Hanover, Ms. Julia Griffin, as well as the part-time Sustainability Coordinator they share with Dartmouth College, Ms. April Salas. She said Ms. Salas is energetic and works closely with the Public Works Director. Ms. Brunner said they discussed Hanover’s approach and she learned that they did not want to spend a lot of time developing a plan so they hired a consultant to focus on their most immediate goal which is to reach 100% renewable energy by 2030 for electricity for the entire community. She said they hired a consultant firm called 3Degrees which helped them go through

all of their options and choose projects to move forward with. She said they have now moved into Phase 2 to operationalize a program that was identified in Phase 1 as a priority for implementation. The consultant is helping the Town to set up an electricity buying co-op which would be available statewide. Ms. Brunner stated that they are vetting different companies and estimating how many people will sign up for a 4-6 week long sign-up period. She said individuals who sign up will have their electricity prices locked in for a full year. They are sourcing 100% green-e certified electricity and everyone who signs up will have their electricity supplied by that supplier. She said it is an “opt-in” program (rather than “opt-out”) because that is all that is allowed in NH right now. Historically opt-in programs have a participation rate of about 15%, so they are hoping to encourage as many people as possible to sign up as the rates for customers are dependent on how many people participate. Ms. Brunner stated that their goal is to launch the program this year so she asked them to keep them in the loop so that Keene community members could also sign up. She said they ensured her that the rate is almost guaranteed to be lower than Eversource. Ms. Brunner said she will keep the ECC informed on the status of program. She said Hanover has a committee called Sustainable Hanover that is helping them perform community outreach and neighborhood meetings.

Ms. Brunner said she also reached out to Concord about their energy plan process and their approach is very different. She said they have an Energy and Environment Committee of about 15 committee members who put in about 15-20 hours per month, as well as one staff member who puts in 20 hours per month. She said their plan outline very thorough and it is a committee member-driven approach with staff support. Ms. Brunner said she does not think that the Concord approach is realistic for Keene. She said she and Community Development Director Rhett Lamb spoke to the City Manager, Ms. Dragon, to discuss potential sources of funding to hire a consultant to help the Keene community with this process, however this was a preliminary discussion and it is not guaranteed that the City will be able to hire a consultant for assistance. Ms. Brunner said other options include finding an intern to help them develop the plan. Ms. Brunner stated that Concord also has a Master’s student working with them on writing their plan. She said there appears to be a high level of effort as their plan is due in June.

Mr. Malansky, member of the public, stated that he is involved on the Concord process and said they are conducting three large stakeholder meetings, one of which he attended with about 60 people from a diverse group of community entities that they pulled together to provide input into their plan and process. Mr. Malansky asked if Hanover is implementing their plan through a municipal aggregation project and Ms. Brunner replied that she believes they are using a different model because a municipally-managed aggregation program would put too much of a burden on staff. She said her understanding of the buying co-op is that it would run on its own after the consultant gets it off the ground and from that point on they will not need much staff time to keep it running. She said one of Hanover’s goals is to be a mentor and inspiration for other communities and they would be happy to answer any of his questions about the specifics of the program.

Ms. Brunner concluded that the City is looking into a consultant option and aim to avoid putting too much burden on the committee. She said they have not yet figured out their approach and for that reason they do not yet have a formalized scope of work with dates. Vice Chair Hansel asked if the Concord committee is appointed by the Council like the ECC and Ms. Brunner replied that it is a Concord committee and is subject to all of the same public meeting requirements as the ECC. Dr. Shedd said that Concord’s committee did include some staff members. Ms. Brunner



said their committee is lot larger and they have also split into topic subgroups and their intern is pulling that information together and writing the plan.

#### **8. Upcoming Dates of Interest**

a. *NH Saves Button Up Workshop* – Dr. Shedd said the ECC is co-sponsoring a home weatherization workshop on Tuesday, March 26, 2019 at the Blastos Room at Keene Ice. The doors open at 6:30 p.m. and presentation starts at 7:00 p.m. She said the presenter is Mr. Ted Stiles who is an energy auditor. She thanked the Clean Energy Team for taking the lead on the logistics and outreach.

b. *Monadnock Earth Festival* – Dr. Shedd said the ECC needs to decide at their April 3<sup>rd</sup> meeting whether or not they will be tabling at the Earth Festival event on Saturday, April 20, 2019. She said they have tabled for the last several years but they will need to zero in on the topic for this year's tabling. She said there will also be an electric vehicle expo at the Festival this year.

c. *Radically Rural* – Dr. Shedd noted that the committee already discussed this event earlier in the meeting. It will take place September 19 & 20, 2019.

#### **9. Legislative Updates**

a. SB 122 “Relative to expenditures from the energy efficiency fund” - Dr. Shedd said Ms. Brunner included information in the packet about SB 122 which will redirect RGGI funds to funding for school districts which will be used wisely by the Keene School District and provide good savings for the community. She thanked Mr. Dooley for including the written summary of his presentation from last month in the packet.

b. HB 365 “Relative to net energy metering limits for customer generators” - Dr. Shedd stated that the bill was supposed to go to an Executive Session today but it was moved and they will know more next month. Ms. Brunner said the ECC's motion from last month will be going to City Council next week and then to committee and she will let the committee know more about the result.

Dr. Shedd said Councilor Hansel had asked if the ECC could consider SB165 which is about net-metering credits for low and moderate income community solar projects. She said she will add SB165 to the agenda for next month.

Dr. Shedd encouraged members to stay abreast of energy-related legislation. She asked Mr. Dooley if there is a way to make the information available to the interested public. Mr. Dooley said he can put the summary on the School District website.

#### **10. Communication from Fred Ward regarding clean energy**

Mr. Ward stated that all renewable energy is weather-driven and there has been a lot of discussion about renewable energy; however, there are too many limitations on solar and wind because they depend on weather conditions. He stated that if you could ever get to 25% renewables you would be doing well and the 100% renewable idea is not realistic. He asked how many members support nuclear energy and members did not raise their hands. He said that is the only way to meet energy needs without using fossil fuels, along with using time-of-day meters

and encouraging people shift when they use electricity from when there is high demand to when there is low demand. He said the curve of electric energy is twice as high during the daytime peak than at night and until people change their behaviors we are stuck with gas powered plants. He said he would be happy to talk and work with the ECC in the future. Dr. Shedd thanked Mr. Ward and said his statements will be accepted as informational for the record.

**11. New Business**

No new items were raised for the April meeting agenda.

**12. Next Meeting: Wednesday, April 3, 2019**

The meeting was adjourned at 9:32 am.

Respectfully submitted by,  
Ayshah Kassamali-Fox, Minute-Taker

Reviewed and edited by Mari Brunner, Acting Planner

SB 122-FN - AS AMENDED BY THE SENATE

03/14/2019 0829s

2019 SESSION

19-0834

10/05

SENATE BILL ***122-FN***

AN ACT relative to expenditures from the energy efficiency fund.

SPONSORS: Sen. Fuller Clark, Dist 21; Sen. Hennessey, Dist 5; Sen. Levesque, Dist 12; Sen. Feltes, Dist 15; Sen. Sherman, Dist 24; Rep. Balch, Hills. 38; Rep. Cali-Pitts, Rock. 30; Rep. McGhee, Hills. 40

COMMITTEE: Energy and Natural Resources

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AMENDED ANALYSIS

This bill:

I. Requires the public utilities commission to allocate certain funds to school districts for energy efficiency projects.

II. Repeals a rebate to retail electric ratepayers.

III. Requires the public utilities commission and the department of environmental services to submit reports with recommendations for allocations of auction proceeds.

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Explanation: Matter added to current law appears in ***bold italics***.

Matter removed from current law appears ~~[in brackets and struckthrough.]~~

Matter which is either (a) all new or (b) repealed and reenacted appears in regular type.

03/14/2019 0829s 19-0834

10/05

STATE OF NEW HAMPSHIRE

*In the Year of Our Lord Two Thousand Nineteen*

AN ACT relative to expenditures from the energy efficiency fund.

*Be it Enacted by the Senate and House of Representatives in General Court convened:*

1 Regional Greenhouse Gas Initiative; Energy Efficiency Fund and Use of Auction Proceeds. Amend RSA 125-O:23, III to read as follows:

III. All ~~[remaining]~~ proceeds received by the state from the sale of allowances, excluding the amount used for commission and department administration under paragraph I, shall be allocated by the commission as follows:

(a) At least ~~[15]~~ **35** percent to the low-income **utility** core energy efficiency program.

(b) Beginning January 1, ~~[2014]~~ **2020**, ~~[up to \$2,000,000]~~ **no more than \$5,000,000** annually to utility core **energy efficiency** programs for municipal, **school district**, and local government energy efficiency projects, including projects by local governments that have their own municipal utilities. Funding elements shall include, but not be limited to, funding for direct technical and project management assistance to identify and encourage comprehensive projects and incentives structured to assist municipal and local governments funding energy efficiency projects. In calendar years 2014~~, 2015, and 2016,~~ **through 2019** any unused funds allocated to municipal and local government projects under this paragraph remaining at the end of the year shall roll over and be added to the new calendar year program funds and continue to be made available exclusively for municipal and local government projects.

Beginning in calendar year ~~[2017]~~ **2020**, and all subsequent years, funds allocated to municipal and local government projects under this paragraph shall be offered first to municipal and local governments as described in this paragraph for no less than 4 full calendar months. If, at the end of this time, municipal and local governments have not submitted requests for eligible projects that will expend the funds allocated to municipal and local government projects under this paragraph within that program year, the funds shall be offered on a first-come, first-serve basis to business and municipal customers who fund the system benefits charge.

(c) The remainder to all-fuels, comprehensive energy efficiency programs administered by qualified parties which may include electric distribution companies as selected through a competitive bid process.

The funding shall be distributed among residential, commercial, and industrial customers ~~[based upon each customer class's electricity usage]~~ **divided evenly between the 2 existing customer classes** to the greatest extent practicable as determined by the commission. Bids shall be evaluated based on, but not limited to, the following criteria:

- (1) A benefit/cost ratio analysis including all fuels.
- (2) Demonstrated ability to provide a comprehensive, fuel neutral program.
- (3) Demonstrated infrastructure to effectively deliver such program.
- (4) Experience of the bidder in administering energy efficiency programs.
- (5) Ability to reach out to customers.
- (6) The validity of the energy saving assumptions described in the bid.

2 Energy Efficiency Fund and Use of Auction Proceeds; Reports. Amend RSA 125-O:23, V to read as follows:

V. Each entity receiving funding under subparagraph III(c) shall file an annual report on the performance of the entity's program. The commission shall establish the format, content, and the methodologies used to provide the content of the reports. The commission shall make use of, as applicable and appropriate, the monitoring and verification requirements used in the natural gas and electric utility

core programs. The annual reports shall be delivered to the governor, the president of the senate, the speaker of the house of representatives, the chairmen of the senate and house standing committees with jurisdiction over energy matters, and the chairman of the public utilities commission. ***The commission shall make these reports available to the public on the website and in person.*** The reports shall include, but not be limited to, the following:

- (a) Program expenditures, including direct customer installation costs.
- (b) Resulting actual and projected energy savings by fuel type and associated CO2 emissions reductions.
- (c) Any measurement and verification data that corroborate projected savings.
- (d) The number of customers served by the programs.
- (e) Other data as required by the commission in order to determine program effectiveness.

***VI. The public utilities commission and the department of environmental services shall review the use of auction proceeds under paragraph III and shall submit a report with recommendations to continue or revise the allocation of auction proceeds among the core programs based on program needs to the house and senate finance committees, the speaker of the house of representatives, the president of the senate, the house clerk, the senate clerk, the governor, and the state library on or before July 1, 2023.***

3 Repeal. RSA 125-O:23, II, relative to rebates to retail electric ratepayers, is repealed.

4 Effective Date. This act shall take effect 60 days after its passage.

LBAO  
19-0834  
1/15/19

# **SB 122-FN- FISCAL NOTE AS INTRODUCED**

AN ACT relative to expenditures from the energy efficiency fund.

**FISCAL IMPACT:**    ☒ State                      ☒ County                      ☒ Local                      ☐ None

STATE:	Estimated Increase / (Decrease)			
	FY 2020	FY 2021	FY 2022	FY 2023
<b>Appropriation</b>	\$0	\$0	\$0	\$0
<b>Revenue</b>	\$0	\$0	\$0	\$0
<b>Expenditures</b>	\$100,000	\$100,000	\$100,000	\$100,000
<b>Funding Source:</b>	<input checked="" type="checkbox"/> General <input type="checkbox"/> Education <input checked="" type="checkbox"/> Highway <input checked="" type="checkbox"/> Other - Energy Efficiency Fund, Multiple Others (See Methodology)			

**COUNTY:**

<b>Revenue</b>	Indeterminable Increase	Indeterminable Increase	Indeterminable Increase	Indeterminable Increase

<b>Expenditures</b>	Indeterminable Increase	Indeterminable Increase	Indeterminable Increase	Indeterminable Increase
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**LOCAL:**

<b>Revenue</b>	Indeterminable Increase	Indeterminable Increase	Indeterminable Increase	Indeterminable Increase
<b>Expenditures</b>	Indeterminable Increase	Indeterminable Increase	Indeterminable Increase	Indeterminable Increase

**METHODOLOGY:**

This bill would repeal the \$1 per allowance amount deposited into the Energy Efficiency Fund. Instead, all proceeds from the sale of allowances would be deposited into the Energy Efficiency Fund for specific programs and the provision in current law to rebate all electric ratepayers with any revenue above the \$1 per allowance would end. Below is an estimate from the Public Utilities Commission and Department of Environmental Services of how this bill will impact the allocation of auction revenue based on the assumption that net auction revenue from the sale of allowances will be \$13.65 million in FY 2020 and each year thereafter:

<b>Current Law</b>	<b>Current Allocation of Revenue</b>	<b>Proposed Changes</b>	<b>Proposed Allocation of Revenue</b>	<b>Net Estimated Change</b>
Low-income Core Energy Efficiency Program (15%)	\$440,000	Low-income Utility Core Energy Efficiency Program (35%)	\$4.8 Million	\$4.4 Million
Energy Efficiency Program (only municipalities)	\$2 Million	Energy Efficiency Program (municipalities + school districts)	\$5 Million	\$3 Million
All-fuels Program (remaining balance of \$1 per allowances)	\$200,000	All-fuels Program (remaining balance)	\$3.8 Million	\$3.6 Million
Rebates to all electricity rate payers	\$11 Million	Rebates to all electricity rate payers	\$0	(\$11 Million)
<b>Total</b>	<b>\$13.6 Million</b>		<b>\$13.6 Million</b>	<b>\$0</b>

Note: These estimates assume an average allowance price of \$4.75.

This bill will have no impact on net state revenue, but will reallocate state revenue to energy efficiency programs from rebates to electricity rate payers. Therefore, the cost of electricity will increase generally for all state, county, and local governments that consume electricity. For example, the Commission and Department estimate the elimination of the rebates to all electricity rate payers will increase state electricity cost by \$100,000, based on the state's consumption of electricity in FY 2017. This increase in state electricity costs will impact all funds used to purchase electricity. The Commission and Department note that investments into energy efficiency may offset, in the future, any increase to electricity costs.

While local governments would directly receive a net revenue increase of \$3 million, the total direct and indirect benefits to local and county governments will increase by an indeterminable amount.

**AGENCIES CONTACTED:**

Public Utilities Commission and Department of Environmental Services

SB 165 - AS INTRODUCED

2019 SESSION

19-1079

10/08

SENATE BILL **165**

AN ACT relative to net energy metering by low-moderate income community solar projects.

SPONSORS: Sen. Feltes, Dist 15; Sen. Fuller Clark, Dist 21; Sen. Watters, Dist 4; Sen. Bradley, Dist 3;  
Sen. Hennessey, Dist 5; Rep. Moffett, Merr. 9; Rep. Oxenham, Sull. 1; Rep. Luneau,  
Merr. 10; Rep. Myler, Merr. 10

COMMITTEE: Energy and Natural Resources

ANALYSIS

This bill modifies the method for calculating net energy metering credits for low-moderate income community solar group host projects.

Explanation: Matter added to current law appears in ***bold italics***.

Matter removed from current law appears ~~[in brackets and struckthrough.]~~

Matter which is either (a) all new or (b) repealed and reenacted appears in regular type.

19-1079

10/08

STATE OF NEW HAMPSHIRE

*In the Year of Our Lord Two Thousand Nineteen*

AN ACT relative to net energy metering by low-moderate income community solar projects.

*Be it Enacted by the Senate and House of Representatives in General Court convened:*

1 Short Title. This act shall be known as the "Low-Income Community Solar Act of 2019."

2 Net Energy Metering; Group Host; Community Solar. Amend RSA 362-A:9, XIV(c) to read as follows:

(c) Notwithstanding paragraph V, a group host shall be paid for its surplus generation at the end of each billing cycle at rates consistent with the credit the group host receives relative to its own net metering under either subparagraph IV(a) or (b) or alternative tariffs that may be applicable pursuant to paragraph XVI. ~~[Each group member of]~~ ***Alternatively***, a group host ~~[for a low-moderate income community solar project, as defined in RSA 362-F:2, X-a,]~~ may ***elect to*** receive credits on the customer



electric bill for each member and the host~~[, provided that there shall be only one new project under this paragraph in each utility's service territory by December 31, 2019 with such projects available on a first-come, first-served basis]~~ **according to an amount or percentage specified for each member on PUC form 909.09 (Application to Register or Re-register as a Host), along with a 3 cent per kwh addition for low-moderate income community solar projects, as defined in RSA 362-F:2, X-a.** The commission shall report on the costs and benefits of ~~[such projects]~~ **low-moderate income community solar projects, as defined in RSA 362-F:2, X-a** on or before December 31, 2019. **There shall be at least 3 new low-moderate income community solar projects each year in each utility's service territory beginning January 1, 2020.** On an annual basis, for all group host systems except for residential systems with an interconnected capacity under 15 kilowatts, the electric distribution utility shall calculate a payment adjustment if the host's surplus generation for which it was paid is greater than the group's total electricity usage during the same time period. The adjustment shall be such that the resulting compensation to the host for the amount that exceeded the group's total usage shall be at the utility's avoided cost or its default service rate in accordance with subparagraph V(b) or paragraph VI or alternative tariffs that may be applicable pursuant to paragraph XVI. The utility shall pay or bill the host accordingly.

3 Effective Date. This act shall take effect 60 days after its passage.



# City of Keene

New Hampshire

## **City of Keene Community Development Department**

### *Communications and Outreach Internship*

#### Background: Keene 100% Renewable Energy Goals

In early 2019, the Keene City Council adopted a goal to source all electricity consumed in the City from renewable energy sources by the year 2030 and 100% of all thermal energy and energy used for transportation from renewable energy sources by the year 2050. The resolution further calls for the City to develop a strategic plan by December 2020 to meet these renewable energy goals through a transparent and inclusive stakeholder process. The purpose of the Communications and Outreach internship is to assist City staff with the initial stages of community engagement and outreach for this strategic plan.

#### Internship Overview

The Communications and Outreach intern will work closely with staff in the City of Keene Community Development Department to develop and implement the initial stages of a communications, outreach, and engagement strategy for the City's 100% renewable energy plan. This strategy will be created with input and help from the City's Energy and Climate Committee (ECC). The intern will assist with identifying key stakeholder groups and partners, developing appropriate framing and messaging for the community, preparing an outreach and engagement strategy that is inclusive and transparent, and implementing the strategy with help from staff and volunteers.

#### Scope of Work

1. Participate in web-based training opportunities through the ICLEI Climate Leaders Cohort program to build expertise in climate & energy messaging/communication best practices.
2. Identify key stakeholder groups and partners (e.g. KSC/AUNE, SAU 29): help build understanding of key stakeholder groups within the community and appropriate issue framing/messaging for each group; compile a list of key contacts and conduct interviews (in-person or by phone/email).
3. Develop and maintain a project website that includes project background information, opportunities to provide feedback/input, and information about upcoming events and meetings.
4. Work with staff and ECC to plan and conduct focus groups with select stakeholder groups (3-4 focus groups total).
5. Work with staff and ECC to plan/coordinate 2-3 community forums or neighborhood meetings.

#### Level of Effort and Timeframe

The City currently has a budget for 300 hours. The internship will start in late winter/early spring 2019, and continue through the summer and/or fall of 2019 until the project budget is expended.



# City of Keene

*New Hampshire*

## Organization Background – Energy and Climate Committee (ECC)

The ECC is an advisory committee that was created in order to protect Keene’s public health, safety and welfare, as well as the economic vitality of the community. The ECC exists to monitor and advocate for the reduction of greenhouse gas emissions, promote energy conservation and efficiency, as well as the use and production of renewable energy, and increase awareness of and resilience to the expected impacts of a changing climate. The committee is made up of volunteers who meet on the first Wednesday of each month from 8:00-9:30 a.m. on the 2<sup>nd</sup> floor of City Hall.

## Organization Background – Community Development Department

The City of Keene Community Development Department is charged with developing and implementing community based strategies to enhance economic opportunity, build strong neighborhoods and ensure a dynamic framework for quality growth and development while providing professional advice and technical expertise to promote and protect health and safety. The department includes staff trained in code enforcement, health, zoning, planning, and geographic information systems (GIS). Primary functions include long range planning, building permit and land use development review and inspections, property and housing inspections, food establishment licenses and inspections, and health inspections under State Statute and City Code.

