



CITY OF DOVER

ENERGY COMMISSION – MINUTES

Meeting Type: **Regular Meeting**
Meeting Location: **2nd Floor Conference Room – City Hall, 288 Central Ave.**
Meeting Date: **Wednesday, July 18, 2018**
Meeting Time: **5:30 PM**

1. Welcome

Members present: Chair Walter King, Vice Chair William Baber, Zak Koehler, Otis Perry, Rob Weir, Lisa Logel (Alternate), Walter Milliken (Alternate)

Members absent: Michael Behrmann, Julie Fournier, Deborah Thibodeaux (Council Liaison)

Others present: Elena Piekut, Staff Liaison and Assistant City Planner; Jackson Kaspari, UNH Sustainability Fellow, Conor McManamy, UNH Sustainability Fellow

2. Citizen's Forum

None present.

3. Approval of Meeting Minutes of June 20, 2018

Zak Koehler moved to approve the minutes of June 20, 2018 as written. Walter King seconded. Vote: U/A

4. Staff Updates

A. Dover High School Solar Array & Children's Museum/Indoor Pool Solar Array

Assistant City Planner Elena Piekut provided an update on the City's efforts to install solar arrays on both the roof of the new Dover High School and the roof of the Children's Museum of New Hampshire and Dover Indoor Pool. Both projects were approved by the City Council the previous week, and the high school project was unanimously endorsed by the Joint Building Committee and School Board prior to the City Council's vote. She explained that the City's Finance and Legal Departments, as well as the Assistant City Manager, are currently working through finalizing the language of the power purchase agreement.

Walter Milliken asked about the size of the system for the high school and Piekut confirmed that the intent is to install the larger, 912kw system. Walter King asked whether the high school array will be installed first and Piekut explained that the intent is to have the high school system on line before the end of 2018, though it is a much larger project than the Children's Museum installation. Bill Baber clarified that the City and Children's Museum must also still work out the details of their lease agreement with regard to electricity payments. Discussion ensued regarding Eversource's recent rate hike and the relationship of solar projects to distribution and supply costs.

B. Agent-Based Traffic Modeling for Transportation Life Cycle Assessments – Presentation by 2018 UNH Sustainability Fellow Conor McManamy

Assistant City Planner Elena Piekut introduced Conor McManamy, a UNH Sustainability Fellow working with the UNH Civil and Environmental Engineering Department on a project that may be of interest to the Energy Commission given its previous discussions on traffic signalization and congestion. McManamy explained that his is a rising senior at Bowdoin College and from Newburyport,



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Massachusetts. He shared a written report and provided an overview of his project, which is using data from a 16-mile stretch of I-495 to model the emissions associated with different road types and traffic congestion associated with maintenance. Discussion ensued and Otis Perry suggested that this type of analysis could be applied to site plan and subdivision reviews at the City level. McManamy said that traffic data is available online from the NH Department of Transportation. Discussion ensued regarding data types and availability and Piekut said she would inquire into data available from Sebago Technics, which handles the City's traffic signalization. Bill Baber asked if the company could provide comparisons for non-signalized intersections and Piekut said that they could as they are a full service engineering firm. Discussion ensued regarding the overlap of this work with municipal or community scale greenhouse gas emissions inventories. Discussion also ensued regarding data and Walter Milliken noted that in addition to data from traffic signal sensors, cell phone tracking data is also available for purchase should the City be interested in analyzing its traffic congestion.

C. Measuring Carbon and Nitrogen Footprints – Update from 2018 Sustainability Fellow Jackson Kaspari

Assistant City Planner Elena Piekut introduced Jackson Kaspari, and noted that he had presented to both the City Council and the entire fellowship program the previous week. Kaspari shared a written report and provided an overview of his work to date, primarily consisting of a nearly-complete greenhouse gas inventory for municipal operations (including energy use and fleet fuel use) as well as the nitrogen impacts of fertilizer use and wastewater treatment. Additional analysis will include the food consumption of Dover's schools. Walter King pointed out that of all the gases analyzed, CO₂ is clearly the greatest emission. Discussion ensued concerning Kaspari's atmospheric research and best practices in obtaining and manipulating the necessary data. Bill Baber suggested that the Commission could assist the City with grantwriting to obtain funding to continue the same analysis beyond the conclusion of the summer fellowship.

5. Old Business

None.

6. New Business/Other Business

A. Master Plan Actions – Elena Piekut

Assistant City Planner Elena Piekut handed out a list of the actions identified by the Stewardship of Resources Chapter and Climate Adaptation Chapter of the Master Planner which were assigned to the Energy Commission. She explained that some are already ongoing but that she would like the Commission to review the outreach and education action items to determine whether they would like to take one on in 2018. The Commission decided to discuss further at its next meeting.

7. Member Comments

None.

8. Call for Agenda Items



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None.

9. Adjourn

Otis Perry moved to adjourn at 7:08 pm. Walter Milliken seconded. Vote: U/A.