



# City of Ann Arbor

## Meeting Minutes

### Energy Commission

301 E. Huron St.  
Ann Arbor, MI 48104  
[http://a2gov.legistar.com/  
Calendar.aspx](http://a2gov.legistar.com/Calendar.aspx)

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Tuesday, October 10, 2017

6:00 PM

Larcom City Hall, 301 E Huron St, Second  
floor, City Council Chambers

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#### CALL TO ORDER

Chair Appleyard called the meeting to order a little after 6:05 PM

#### ROLL CALL

**Present:** 7 - Charles Hookham, Mark Clevey, Wayne Appleyard, Noah Levin, Sarah Paleg, Jason Frenzel, and Carlene Colvin-Garcia

**Absent:** 4 - Brigit Macomber, Mike Shriberg, Shoshannah Lenski, and John Mirsky

#### APPROVAL OF AGENDA

Approved, with a motion by Clevey and second by Paleg.

#### APPROVAL OF MINUTES

Minutes for the September meeting were approved unanimously on a voice vote.

[17-1681](#) Minutes of the September 12, 2017 Ann Arbor Energy Commission Meeting

**Attachments:** Energy Commission Minutes 9-12-17.pdf

Approved by the Commission and forwarded to the City Council due back on 11/9/2017

#### PUBLIC INPUT

No public input.

#### ENERGY REPORT - NEWS FROM THE ENERGY OFFICE AND COMMISSIONERS

Staff informed the commission of the Ann Arbor area renewable homes and business tour happening October 10th from 10am to 4pm. The tour will look at renewable energy and efficiency options. More information is available at [annarborsolartour.org](http://annarborsolartour.org)

Staff informed the commission that the next meeting would include looking at the green fleets policy. Currently City departments have a chance to try out a Chevy Bolt on loan.

At the next meeting, there will be discussion of the DDA solar carport project in 4th and Catherine parking lot.

**Water Utility Emissions Challenge - Carol Miller (WSU); Loch McCabe (E2i)**

Carol Miller is a professor at Wayne State University whose fields of expertise include civil and environmental engineering. She was joined by Loch McCabe who along with Carol is a co-founder of E2i. E2i has developed a tool that uses a locational emission estimation methodology or LEEM. The tool gathers price information from MISO, which can then be used to predict the type of fuel being used and thus pin point emissions on a minute to minute bases. The emissions include carbon, lead, mercury, nitrous oxide and sulfur dioxide. They are using the tool to assist the City of Ann Arbor in a water energy challenge. The challenge is supported by American Water Works Association and the Great Lakes Protection Fund. The goal is to reduce mercury released at power plants during the course of one year. A main process change to take advantage of the LEEM information was changing when the City washes plant filters while ensuring that it wouldn't increase cost. Ann Arbor has made it to the final four among competing cities. E2i is looking for ways to take their platform and use it with other organizations.

There were questions from commissioners as to whether weather and renewable energy are both factored into the calculations. The presenters confirmed that both are taken into consideration through the price of electricity at any given point.

Information about the full Water Utilities Energy Challenge:

<https://www.awwa.org/resources-tools/water-and-wastewater-utility-management/water-utility-energy-challenge.aspx>

**17-1656** Presentation: Water Utilities Emissions Challenge - Carol Miller (WSU)

**Attachments:** WUEC-AWWA ACE  
2017\_AnnArbor\_Energy\_October2017.pptx

**Solar PV and EV Charging - Craig Toepfer (MSS)**

Craig Toepfer played a role in the electrical vehicle standards set in the United States. He shared his personal experience with solar and electric vehicles with the commission. In 2013 he installed a 3.5 kw system on his house that could pivot as part of the Experimental Advanced Renewable program with Consumers Energy. He has used several electric vehicles. The most recent, an electric BMW, has a mobile application that allows him to see how much emissions he has saved. He saw significant saving both as far as gasoline costs as well as emissions reductions. He emphasized the point that there is a shift in car manufacturing towards electric vehicles (EVs). He argued that we should create solar chargers that could take advantage of this shift to EVs. He envisioned an increase with solar on parking lots and Universities as a place where this could make the most sense.

[17-1655](#) Presentation: Solar PV and Electric Vehicles - Craig Toepfer, Michigan Solar Solutions

**Attachments:** AAEC CBT PV EV.pdf

**COMMITTEE UPDATES**

No major committee updates beyond a discussion relating each to the approaching Countywide millage vote.

Climate Action Plan

Renewable Energies

Sustainable Funding

**PUBLIC INPUT****ITEMS FOR NEXT AGENDA**

Commissioner Hookham offered to present on Consumer's single axis tilting system at the next meeting. The system would be the largest of its kind in the state of Michigan.

**ADJOURNMENT**

**The Chair adjourned the meeting at 7:12 PM.**

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**City Clerk's Office  
301 E. Huron St.  
Ann Arbor, MI 48104**

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or  
[www.a2gov.org/energy](http://www.a2gov.org/energy) to learn more about the City's Energy Programs**

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