City of Lebanon Update: Progress on Energy & Climate Issues

May 7, 2019

by Assistant Mayor Clifton Below
Chair, Lebanon Energy Advisory Committee
City Administration & LEAC Efforts

• Introducing full-time Energy & Facilities Manager, Tad Montgomery, hired last year
• He has initiated numerous energy audits with EE projects developing & other initiatives
• Solar RFP last fall, Revision Energy selected – 746 kW AC at 8 sites planned, supplying nearly 20% of City’s own load, PPA for 5+ yrs.
• Landfill Gas to Energy RFP about to be issued
• Business Energy Innovation Conference 9/27/18, lead to Liberty Utilities engaging Andrew Hatch with RBG to do business outreach for energy efficiency in Upper Valley
Connecting Local & Legislative Efforts

• Worked with CLF & others to update NH Municipal Aggregation Statute (RSA 53-E) and allow opt-out choice for CCA: **SB 286** in House w/no opposition.

• City adopted policy for lighting public ways including Dark Sky friendly standards. In process now for considering streetlights to discontinue.

• Council approved CIP to convert over 800 street lights to LED. Hang-up with Liberty Utilities.

• **SB 307** on Outdoor Lighting pending with 19-1 ST&E Committee report Ought to Pass:
  – Requires PUC to allow municipal ownership of LED street lights “including the use of smart adaptive street lighting with networked lighting controls.” Built-in revenue grade metering would give credit for dimming – PUC to act on.
  – Liberty has finally filed a workable tariff proposal for LED.
Networked ‘Smart’ Streetlights

• Enables dimming, brightening & other apps
• Net savings of ~$40-60 K/yr. projected for Lebanon
City worked w/ Liberty Utilities Proposed Battery Pilot to develop Time-Of-Use Rates - Now also proposed for EV charging tariff
The Need for Time Varying Rates

Illustrative Winter Impact of Solar at Different Levels of Dev. (from ISO-NE)


New England’s Duck Curve

Shift flexible loads off-peak (D.R.: Elec. Vehicles, HWH, TES for A.C. etc.)

Discharge STORAGE

New England’s Duck Curve

07-Jan-2014; Tue