

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



Smart Street
Lights

Smart
Meters

Smart
Parking

Environmental
Sensors

Digital
Signage

Acoustic
Sensors

Water & Gas
Metering

Traffic Lights
& Controls

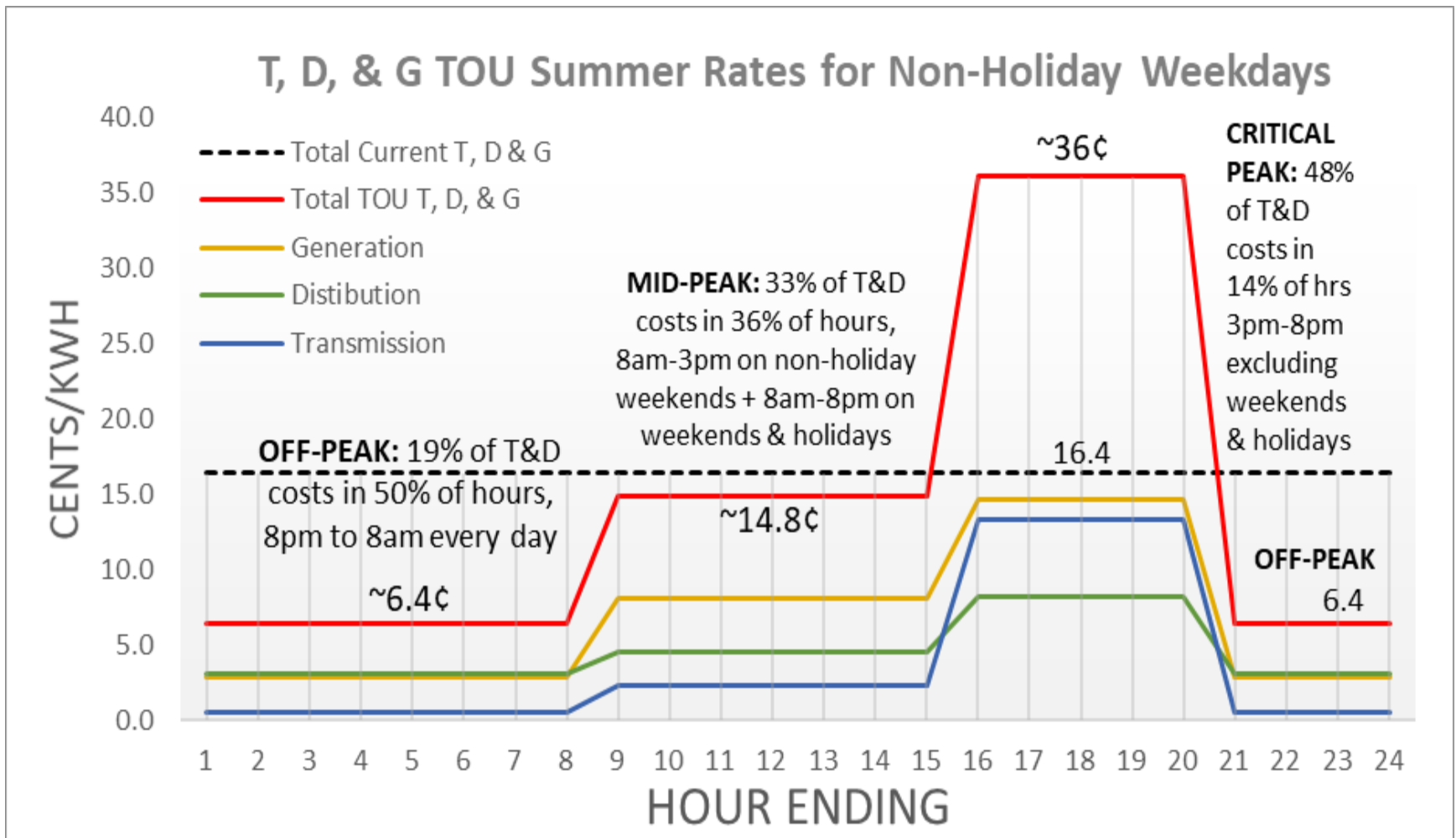
Electric Vehicle
Charging

Solar
Inverters

Security &
Surveillance

Waste
Management

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)

from: <https://www.iso-ne.com/about/what-we-do/in-depth/solar-power-in-new-england-locations-and-impact>

New England's Duck Curve

07-Jan-2014; Tue

