## Hanover Pathway to 100%

What might it look like?

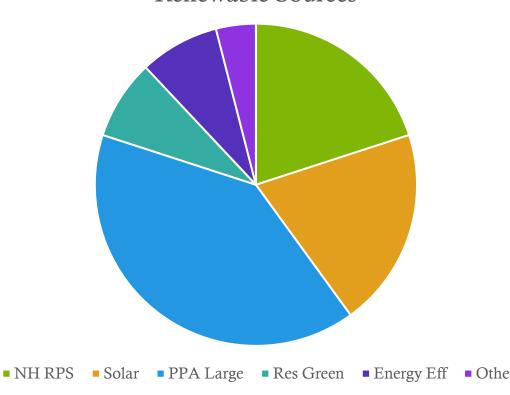
### Community-wide Electricity Usage 124,000,000 kWh

- ► Total community electricity usage based on Liberty Utilities data extremely difficult to obtain complete, ongoing data from electric utilities due to privacy concerns, utility industry opposition to renewable infrastructure, lack of State support in NH.
- ♦ Total usage by sector took 6 months and help of consultant to determine total electricity consumption by sector:

•	Dartmouth College (G1)	60%	74	MW
•	Town & other large users (G1/G2)	25%	31	MW
•	Residents & small com accts (G3)	15%	19	MW
•	Total	100%	124	MW

# Pathway to 100% Renewable Electricity Units in MW





#### Large User Power Purchase Agreement

- Goal to lock into competitive electricity rate for 20 years while supporting construction of renewable energy generator in the ISO New England region.

#### Solar Options

- ♦ Currently host 100 residential systems = 664 kW
- Develop 3 MW Town-owned site
- Dartmouth owns 13 MW site under study
- ◆ Target construction of 4 additional 1 MW sites (private)

#### Residential Green Power Coop

- ♦ 3Degrees steers selection of CES registered to do business in NH (ability to service both commercial and residential accounts with shared RE100 philosophy).
- Offer 12 month rate for Green-E Certified electricity in rolling registration beginning May, 2019.
- Initial marketing focus on Hanover residents and small businesses but other interest around NH.
- Sign up easy and prices competitive prospects are favorable in NH given high electricity prices in state.

#### Challenges Moving Forward

- ▲ Lack of support for renewable energy initiatives in NH Governor and GOP Legislature do not recognize climate change.
- Coupled with situation at the federal level under current administration.
- Lack of support from utilities who look for every opportunity to stymie efforts, arguing increases support for solar and wind will lead to higher default electricity rates.
- Ability to gather baseline and evaluative data still very difficult.
- Need to wait for transportation industry to innovate around use of non-carbon based fuels.