

# Clean Electric Supply

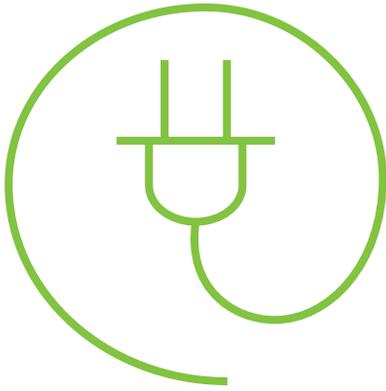
The way that electricity is generated and procured determines the amount of greenhouse gas emissions that is attributed to the electricity consumed here in Bedford. New York State's electricity is generated from several energy sources and, in order for Bedford to meet its greenhouse gas emission reduction goals, New York State's electricity must be generated by renewable sources; hydro, solar or wind power.

Clean electric energy is vital to achieving an 80% community-wide reduction in greenhouse gas emissions by 2030. CAP2030 will focus on increasing both the production of and the demand for locally generated renewable energy.

This transition will require strategies that focus on:

- ▶ Community-wide actions that drive collective renewable energy adoption (e.g. Community Solar, Community Choice Aggregation (CCA), policy changes). Collective action offers the greatest potential for greenhouse gas reductions;
- ▶ Municipal actions that model the importance of 100% renewable energy adoption to the community (e.g. usage of renewable energy in all municipal buildings and operations);
- ▶ Individual actions by residents, businesses and organizations to adopt renewable energy for homes/buildings and vehicles (e.g. solar installations, Community Solar, expanded use of electric vehicles).

Overall strategies to increase locally-sourced renewable energy will generate much-needed local supply resulting in savings due to less energy loss when transmitted over a shorter distance as well as greater resiliency for our community in the case of grid failure. Increased demand will help make projects more cost effective and viable due to economies of scale.



## 2030 OBJECTIVE

- 85% Renewable Energy Supply for Electricity

## PROGRESS HIGHLIGHTS

### Community

- Renewable energy supply for residents and small businesses through Westchester Power Community Choice Aggregation Program.
- 43% increase in solar installations via Solarize Bedford/Mt. Kisco
- Community scale renewable energy: since 2012,13 renewable energy sources have been purchased, built or leased producing 215,823 kWh annually

### Municipal

- Solar installation on Water Filtration Plant (50kW system)
- Solar installation on Police Station Carport
- 25% municipal energy purchased from renewable sources (wind)
- Adopted New York Sun Unified solar permit which expedites permitting for small scale solar
- Two solar ready municipal buildings to be constructed in 2020
- Municipality purchasing Community Solar credits

## NEW STRATEGIES

### Community

- Promote and support locally generated renewable energy projects, especially Community Solar
- Identify and advocate for programs/policies that would increase locally generated renewable energy component of CCA
- Education/communication effort to increase participation in CCA and community solar programs
- Support adoption of model solar zoning code
- Work with schools, businesses and parking lot owners to create solar arrays

### Municipal

- Convert municipal electric supply to 100 percent renewable energy
- Adopt a solar zoning code with solar garden component
- Increase solar/renewable energy on municipal buildings and land
- Offset fossil fuel-based municipal electricity consumption as the Town works towards 100% clean energy
- Pursue locally generated renewable energy projects
- Continue to fast track permitting for clean energy projects
- Reduce soft costs for renewable energy projects (permitting, financing, etc.)

Note: Electric Supply is not a separate part of the pie chart showing 2017 community emissions on page 8, because emissions from fossil fuel powered electric energy are included in total (all) energy emissions that come from buildings in the Town of Bedford, as explained in the next section.

