Central Hudson Gas & Electric

- Flat or Declining Peak Load
- Increasing Levels of Renewables
- Preparing for EV, HP, and Battery Storage

307,000 electric customers
82,000 natural gas customers
9,400 miles of transmission & distribution lines
1,452 miles of transmission & distribution pipelines
Distributed System Implementation Plan

» Purpose of the Plan and Filing
  – Update prior plans
  – Highlight Progress and Plans for distributed resources
  – Provide Information to Regulators
  – Provide Resources for Stakeholders and developers
  – Highlight a Long Term Vision

» Next Update July 2020
Progressing the Distributed System

» Foundational Investments
» Advancing Forecasting and Planning
» More Robust Information Sharing
  – System Data Portal
  – Joint Utility Data Page
  – Customer Data Access
» Interconnection Portal and Hosting Capacity Improvements
» Well Established CenHub Customer Platform
» Implementing Non-wires Alternatives
» DER Roadmap and ISO Coordination
» Preparing for EV and Battery Storage
Central Hudson’s Foundational Investment Strategy

Foundational to Core Strategy / Positive Business Case

Foundational to REV

Distribution Automation (DA)  Distribution Management System (DMS)

ESRI GIS (Asset Model)
## Energy Efficiency Programs

<table>
<thead>
<tr>
<th></th>
<th>2019 Electric Budget</th>
<th>2019 Electric Target</th>
<th>2019 Gas Budget</th>
<th>2019 Gas Target</th>
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</thead>
<tbody>
<tr>
<td>$9,772,000</td>
<td>79,102 MWh</td>
<td>$1,182,000</td>
<td>68,864 MMBtu</td>
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</tbody>
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### Lighting
- Comprehensive LED retrofit programs
- Prescriptive rebates
- Discounts at “big box” retail partners
- Great deals on the CenHub Store

### Appliances & HVAC
- Efficient boilers & furnaces
- High efficiency heat pump water heaters
- Environmentally responsible appliance recycling

### Custom Projects
- Non-standard, site specific solutions designed primarily for the industrial sector.
## Beneficial Electrification

**Air Source Heat Pump**
- CH incentive of $250 per system (plus $50 EE)
- Covers both Mini-split and central systems

**Geothermal**
- Educational initiative
- Annual Rate Impact Credit (RIC) of $264

**Electric Vehicles**
- Educational initiative
- Partnering with municipalities and fleet owners

<table>
<thead>
<tr>
<th></th>
<th>2019 Budget</th>
<th>2019 Target</th>
<th>Proposed 2020-2025 Budget</th>
<th>Proposed 2020-2025 Target</th>
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<tbody>
<tr>
<td>2019 Budget</td>
<td>$350,000</td>
<td>39,976 Tons CO2</td>
<td>$30,200,000</td>
<td>253,000 MMBtu</td>
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