VPPSA

Vermont Public Power Supply Authority

Grid Connected Homes & Businesses

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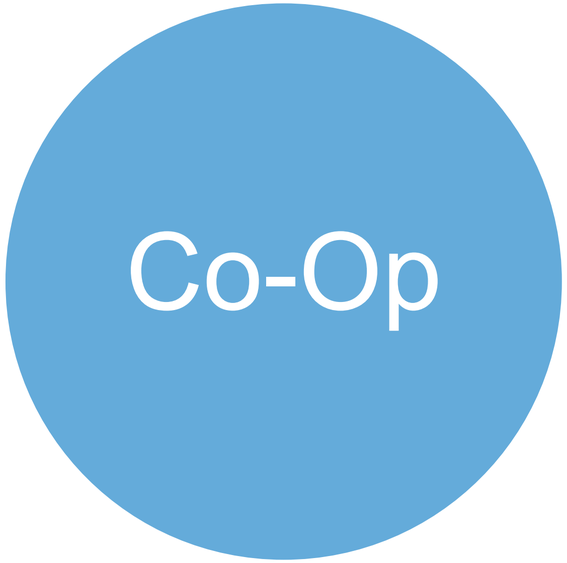
About VPPSA: Types of Electric Utilities in Vermont

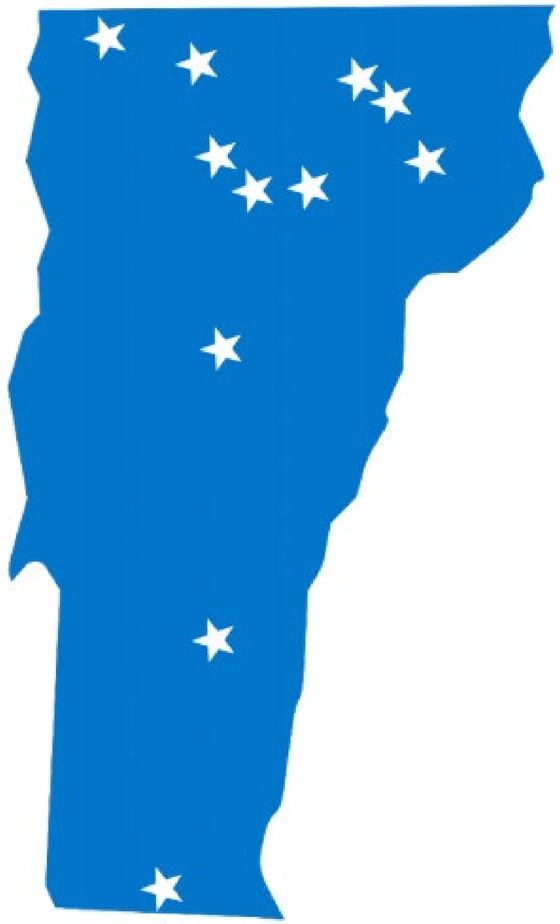
Green Mountain Power



Vermont Electric Co-Op
Washington Electric Co-Op

VPPSA Member Utilities
Burlington Electric
Stowe Electric
Hyde Park Electric

About VPPSA: Where We Work



Barton Village
Village of Enosburg Falls
Hardwick Electric Department
Village of Jacksonville
Village of Johnson
Ludlow Electric Light Department
Lyndonville Electric Department
Morrisville Water & Light Department
Northfield Electric Department
Swanton Village
Village of Orleans

About VPPSA

VPPSA was established in 1979 by the Vermont Legislature:
Title 30 VSA, Chapter 84

We provide services and solutions to municipal electric utilities.

Putting the Public in Power.

About VPPSA

- **Power Supply**
- **Financial Services**
- **Rates and Planning**
- **Legislative and Regulatory Assistance**
- **IT Support**
- **Communication and Outreach**

Grid Connected Homes: Why We Care

- VPPSA and other utilities are striving to decarbonize under the Renewable Energy Standard
- As the grid becomes cleaner and greener, replacing fossil-fuel with electric appliances in the home becomes even more attractive
- More electric appliances = load growth for the utility, which helps drive electric rates down

Incentives For Beneficial Electrification

Measure	Incentive Value	Additional Incentive
Electric Vehicle	$1,000	$400 (Low Income)
Plug-In Hybrid	$500	$400 (Low Income)
Used Electric Vehicle	$500	
Used Plug-In Hybrid	$250	
Level 2 Charger	$500	
Cold Climate Heat Pump	$400	$100 (Weatherized)
Heat Pump Water Heater	$650	
Forklift	$3,000	
Golf Cart	$50	
Lawn Mower (Residential)	$25	
Lawn Mower (Commercial)	$1,000	
E-Bike	$100	

Grid Connected Homes: Why We Care

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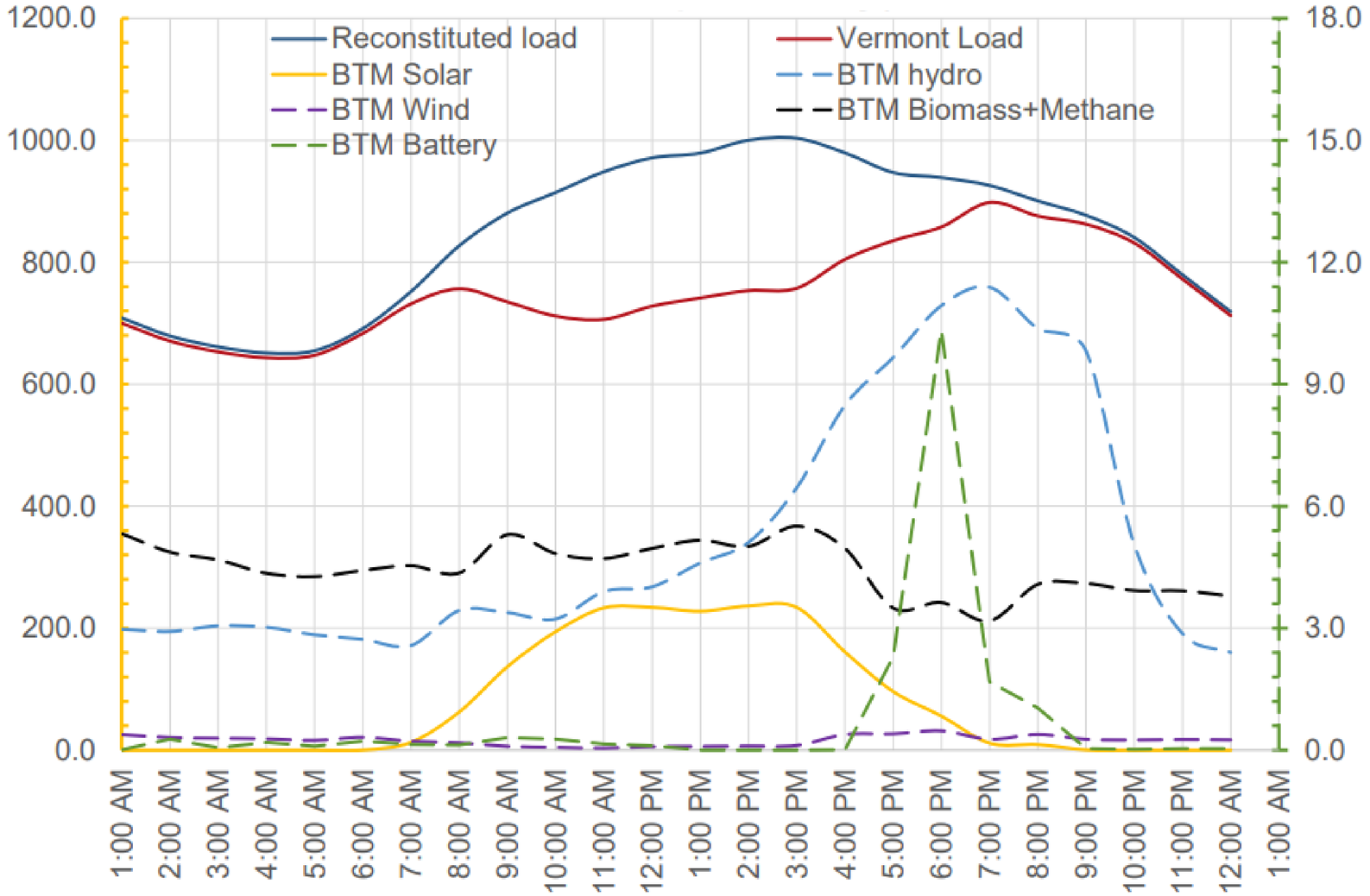
- As the grid becomes cleaner and greener, replacing fossil-fuel with electric appliances in the home becomes even more attractive
- More electric appliances = load growth for the utility, which helps drive electric rates down
- More electric appliances = possibility for higher peaks, which could lead to higher electric costs

Grid Connected Homes: Why We Care

July 30, 2019
Vermont Peak Load on the New England Peak Day



Opportunities to Grid-Connect

Measure	Incentive Value	Additional Incentive
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Partnership with Virtual Peaker

About Virtual Peaker:

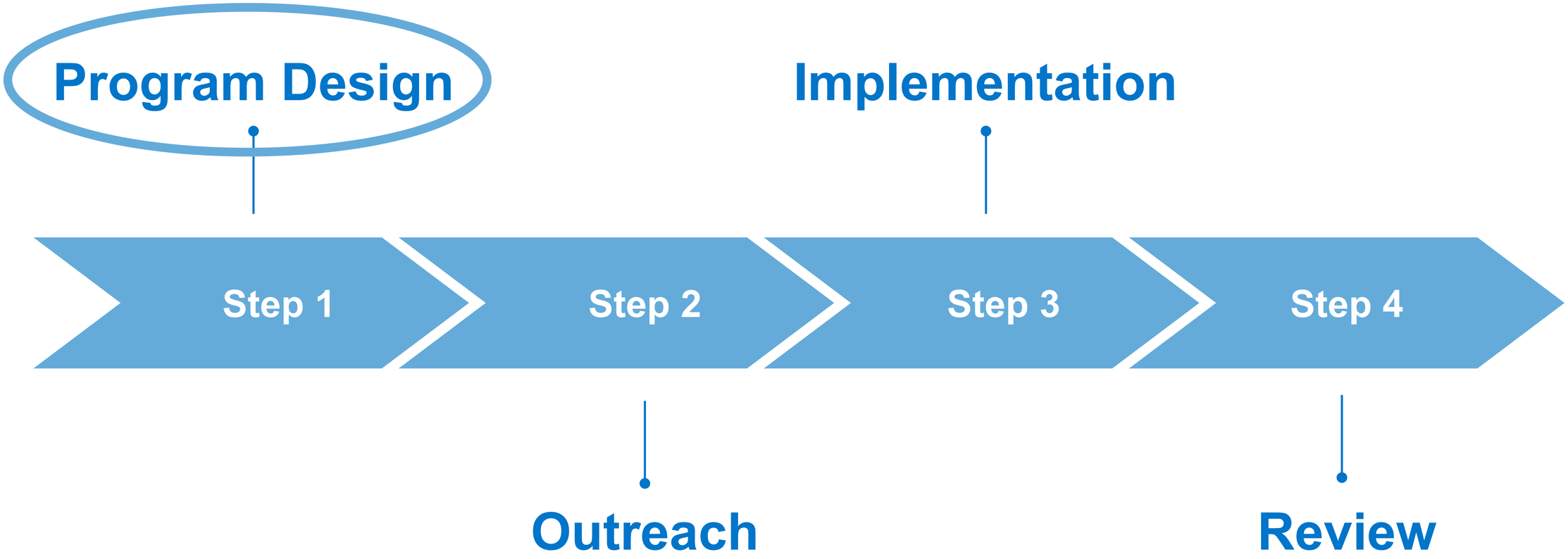
- Software platform that manages residential electric demand
- Allows utilities to control devices with internet connection
- Acts as a messaging service

Currently Piloting:

- Flexible load management for municipal utilities- **behavioral**
- Residential heat pump water heater flexible load management- **active**

Virtual Peaker

Heat Pump Water Heater Pilot



Heat Pump Water Heater Pilot

Program Design:

- Will be working exclusively with Rheem models (Virtual Peaker compatible without additional device)
- Likely going to involve customers from multiple electric utilities
- Customers will receive incentive for participating, likely a credit on their electric bill

Contact Info

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www.vppsa.com