

# Vermont Public Power Supply Authority

Melissa Bailey, Legislative and Regulatory Affairs Representative

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# VPPSA Members

Barton Village, Inc. Electric Department (1893) 2,170

Village of Enosburg Falls Water & Light Department (1896) 1,706

Town of Hardwick Electric Department (1897) 4,492

Village of Hyde Park Electric Department (1894) 1,383

Village of Jacksonville Electric Company (1904) 700

Village of Johnson Water & Light Department (1894) 944

Village of Ludlow Electric Light Department (1900) 3,758

Village of Lyndonville Electric Department (1894) 5,664

Village of Morrisville Water & Light Department (1895) 3,986

Northfield Electric Department (1894) 2,223

Village of Orleans Electric Department (1925) 669

Swanton Village, Inc. Electric Department (1894) 3,632



# VPPSA Overview

- ▶ VPPSA is a *Joint Action Agency* created by the Vermont General Assembly on July 1, 1979 and codified as Title 30 VSA, Chapter 84.
  - ▶ VPPSA is one of about 60 Joint Action Agencies in the US.
  - ▶ VPPSA is an instrumentality of the State of Vermont.
- ▶ The VPPSA Board of Directors consists of one director appointed from each member system.
- ▶ Working together enables the municipal members to gain efficiency while maintaining local control.
- ▶ VPPSA has a staff of 12 with offices in Waterbury Center.



# VPPSA Members

- ▶ The VPPSA municipal electric utilities are governed by elected or appointed Select Boards, Village Trustees, or Electric Commissioners.
- ▶ VPPSA member utilities range in size from under 700 customers to about 5,500 customers.
- ▶ Member systems, as well as VPPSA itself, operate on a nonprofit basis, so there is no rate of return paid by the customer.
- ▶ VPPSA provides expertise for its 12 members and 4 affiliates and provide a vehicle for joint efforts that benefit consumers
- ▶ The municipal utilities manage *operations*.



# VPPSA Services

- ▶ Finance, Bonding, and Accounting Support
- ▶ Metering and IT Support
- ▶ Power Supply
  - ▶ Long-term and short-term energy forecasting and contracting
  - ▶ Daily interactions with the New England Market (ISO-NE)
  - ▶ Integrated Resource Planning (IRP)
  - ▶ Participation in regional ISO-NE Committees
- ▶ Ratemaking and Revenue Forecasts
- ▶ Regulatory and Legislative Support
  - ▶ Participation in relevant Public Service Board dockets and at VELCO



# Regional and National Advocacy

- ▶ Federal legislative support
- ▶ FERC representation
- ▶ American Public Power Association (APPA)
- ▶ Transmission Access Policy Study Group (TAPS)
- ▶ Utilities Technology Council (UTC)
- ▶ HomeTown Connections
  - ▶ VPPSA is a 20% owner and one of five Board Members.
- ▶ Northeast Public Power Association (NEPPA)
  - ▶ VPPSA members sit on the NEPPA Board.



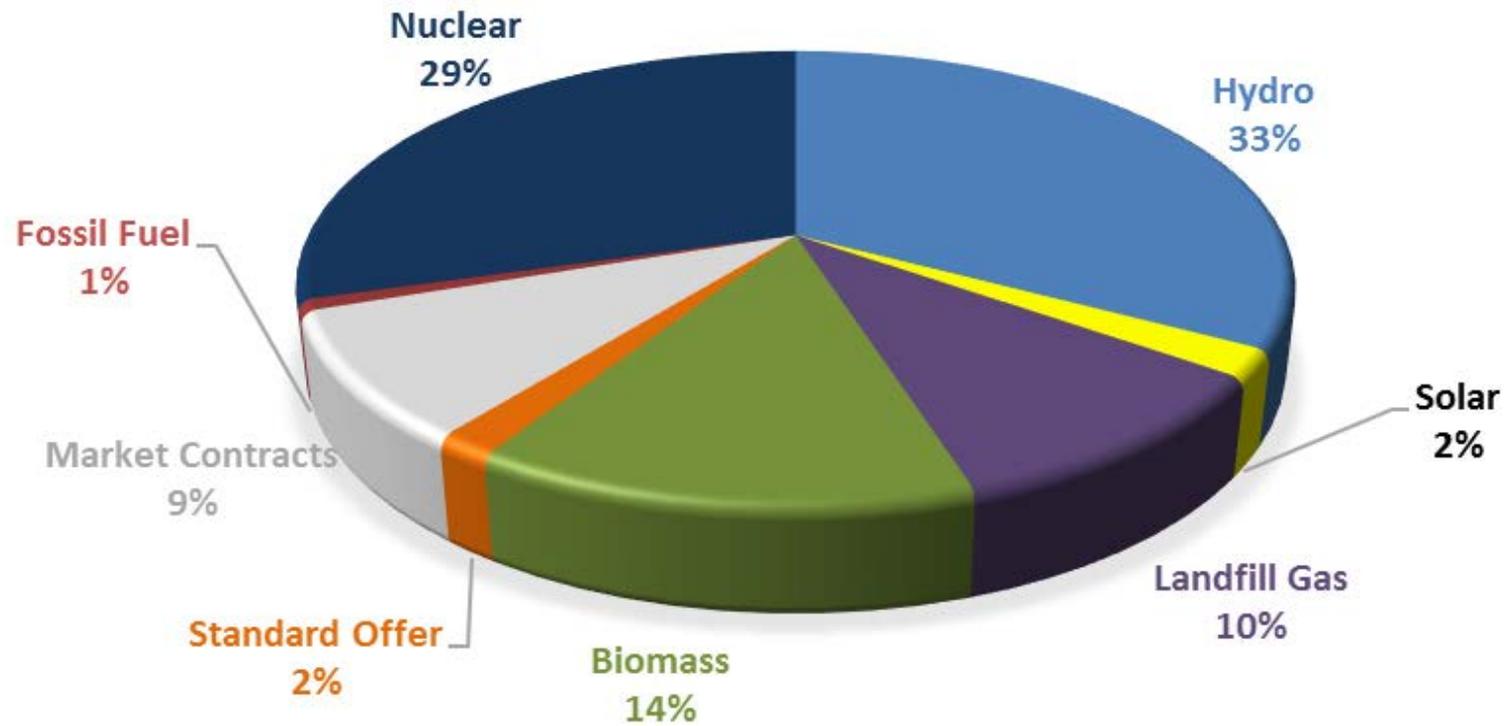
# Existing Power Supply Resources

- ▶ 6 VPPSA member systems own hydro-electric resources within their territories.
  - ▶ Generation constitutes roughly 20% of VPPSA's Power Supply
- ▶ VPPSA owns a peaking unit in Swanton (40 MW) on behalf of its members.
- ▶ VPPSA is a joint owners of the McNeil biomass plant in Burlington (54 MW) on behalf of its members.
- ▶ Members make purchases through the Standard Offer Program and Rule 4.100 (VEPPI) contracts.



# VPPSA Power Supply Sources

## 2018 PURCHASED POWER FUEL MIX PRIOR TO SALE OF RECS



# VPPSA Solar Development

- ▶ VPPSA solicited bids for Solar PV in Member Service territories in 2017.
  - ▶ 12 Sites identified by Members; alternative sites proposed by Developers
  - ▶ Received Responses from 8 Vendors (mostly in state)
  - ▶ 20+ sites, offering both ownership and PPA options from 20kW rooftop – 5MW
  - ▶ Second round solicitation to narrow and firm up responses
- ▶ VPPSA Entered Letter of Intent with Encore Renewable Development in Spring of 2018 to develop up to 10MW of Solar in several Member territories.



# More Solar Development

- ▶ Development and due diligence underway on:
  - ▶ Hardwick - 1.6MW project on old gravel pit owned by town
  - ▶ Morrisville - 2MW project
  - ▶ Morrisville - 2MW on old junkyard
  - ▶ Northfield - 1MW (moved from original town site following community dialogue)
- ▶ Hyde Park Waterhouse Solar
  - ▶ Developed by Hyde Park, 1MW online August 2016
  - ▶ Community Solar Tariff Implemented late 2018

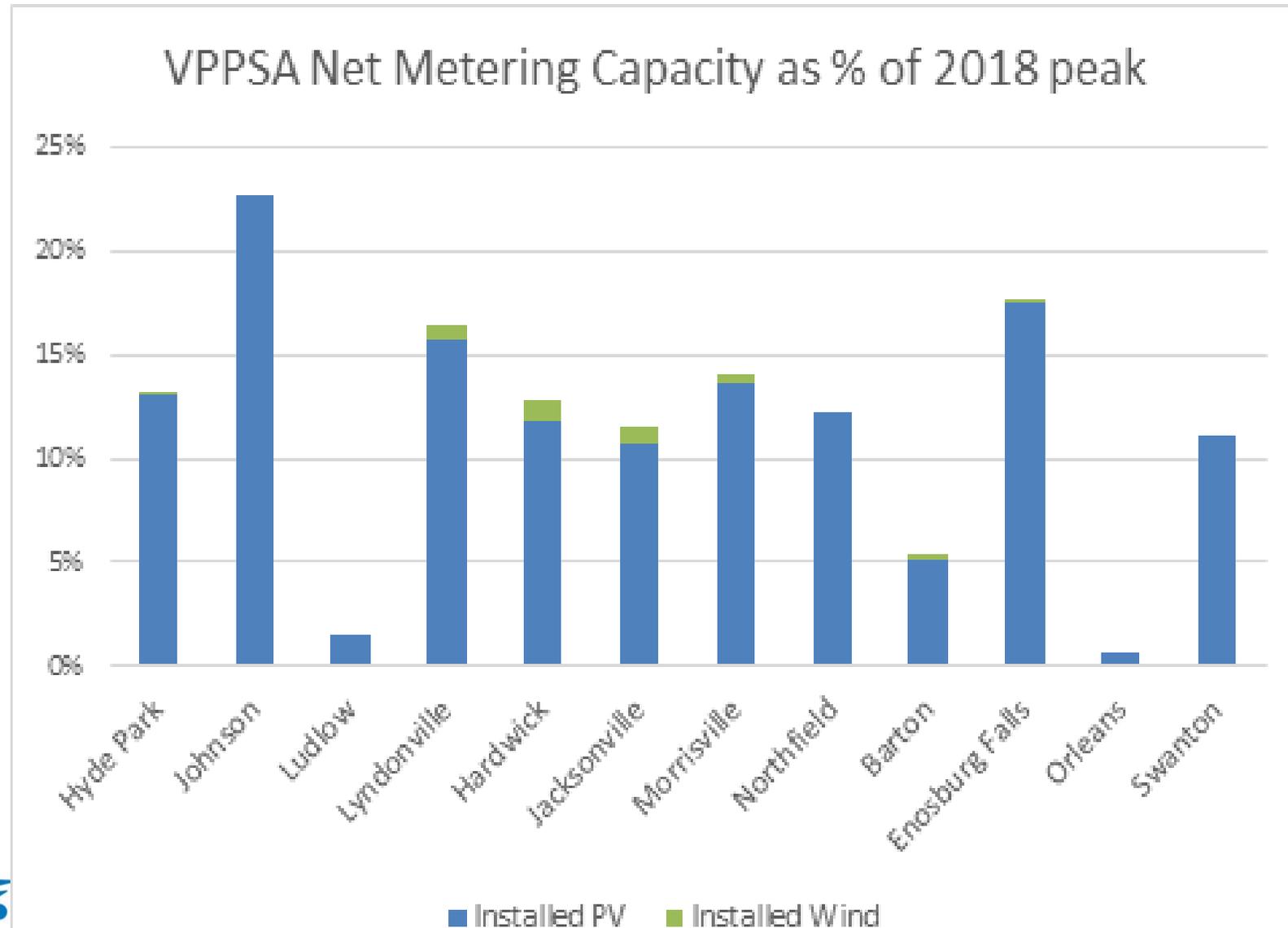


# VPPSA Standard Offer Projects

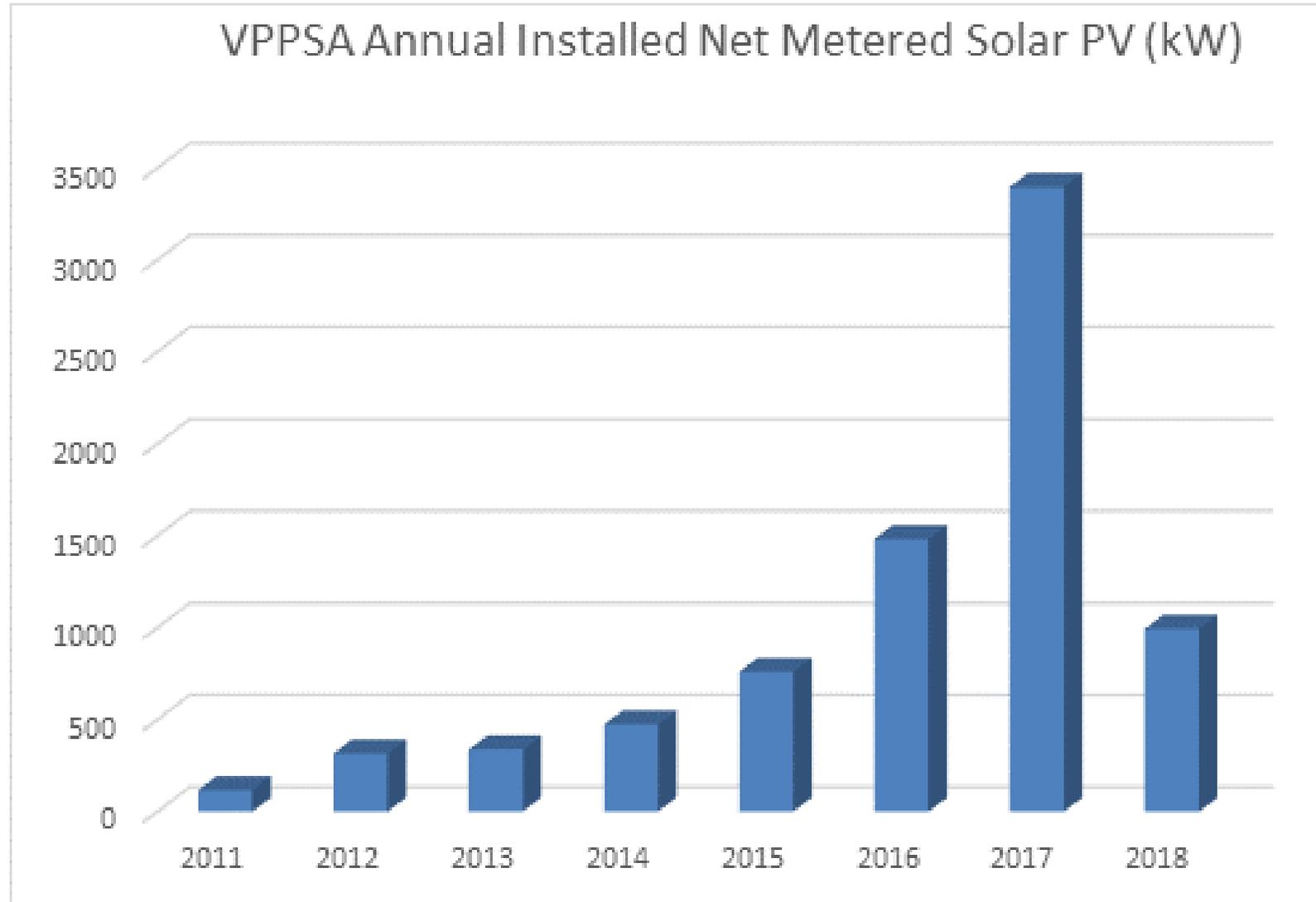
- ▶ Lyndonville Solar 1 500kW -  
Online May 2018
- ▶ Lyndonville Solar 2 493kW -  
Online May 2018
- ▶ Trombley Hill Solar  
(Morrisville) 860 kW - Under  
Construction - Online April  
2019
- ▶ Randolph Road (Morrisville)  
1MW
- ▶ Blackberry Solar (Brandon)  
855 kW (withdrawn)



# Net Metering in VPPSA Territory

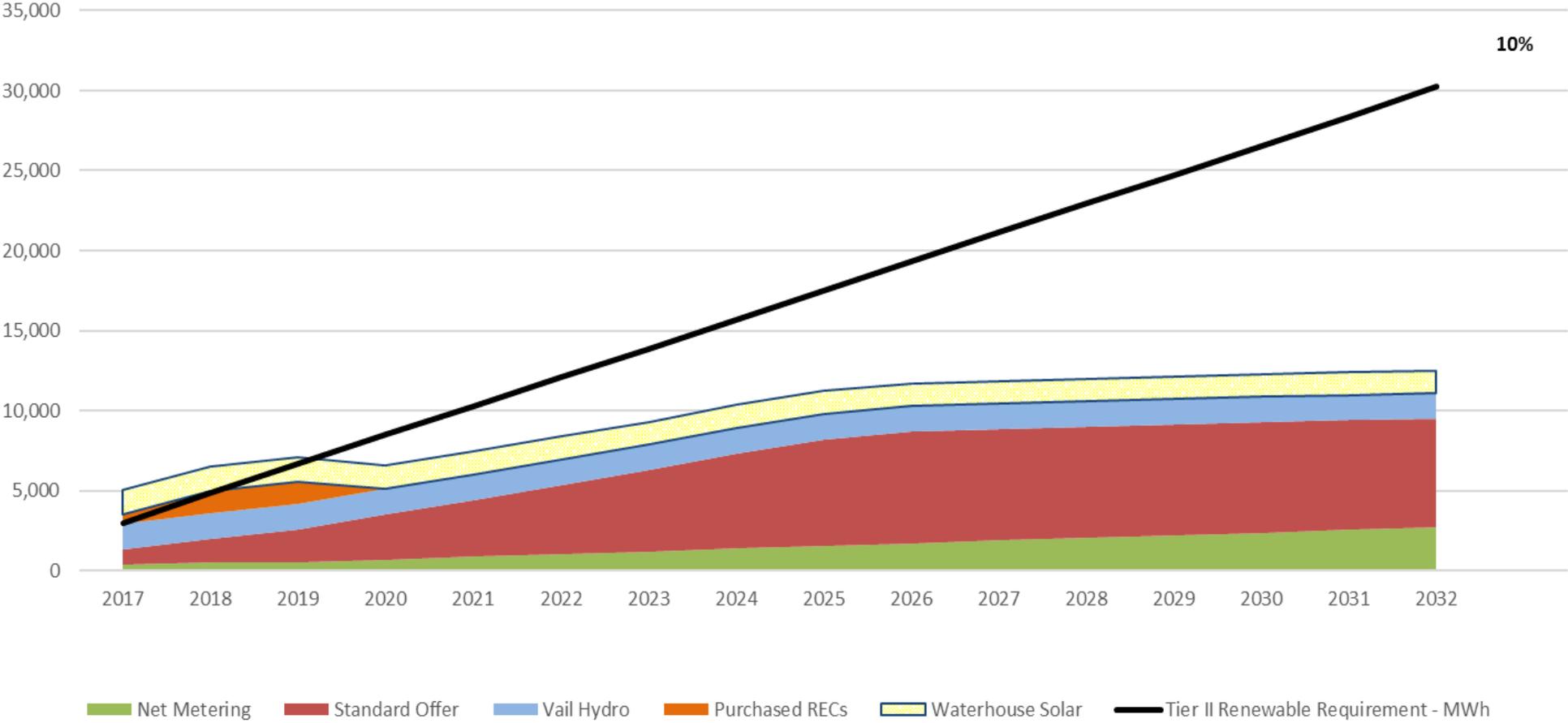


# Net Metering



# Renewable Energy Standard

## VPPSA Renewable Energy Standard Requirement and Resources



# Renewable Energy Standard

- ▶ The VPPSA member utilities have an aggregate obligation under Vermont's Renewable Energy Standard.
  - ▶ VPPSA secures cost-effective resources for compliance with the distributed generation and overall renewable requirements under the RES.
- ▶ VPPSA's "Energy Transformation" obligation began in 2019.
  - ▶ VPPSA voluntarily conducted an Electric Vehicle Pilot Program in 2018.
  - ▶ Established framework for internal accounting for programs offered across multiple service territories.
  - ▶ Expanding programs for 2019.



# Renewable Energy Standard - Tier 3

- ▶ 2019 Programs and Measures
  - ▶ Electric Vehicles
  - ▶ Cold Climate Heat Pumps
  - ▶ Heat Pump Water Heaters
  - ▶ Commercial Electric Mowers
  - ▶ Electric Forklifts
  - ▶ Electric Vehicle Charging Stations
  - ▶ Custom Commercial and Industrial Projects
    - ▶ Focus on ski resorts and manufacturers



# Questions?

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