

The logo of the Hardwick Electric Department is a circular emblem. It features a tan outer ring with the words "HARDWICK ELECTRIC" at the top and "DEPARTMENT" at the bottom in red, serif, all-caps font. The center of the logo is a light blue circle containing a brown utility pole with three horizontal cross-arms. A large, stylized red lightning bolt is positioned behind the pole, pointing towards the bottom right. Several thin, light blue lines radiate from the top of the pole towards the inner edge of the tan ring.

Utility Energy Resources & Planning Overview

Sarah Braese, General Manager
Town of Hardwick Electric Department

Greensboro Energy Climate and Action
Committee Meeting

June 18, 2025

2025 INTEGRATED RESOURCE PLAN

30 V.S.A. § 218c

Least-cost integrated planning

Case No. 25-0853-PET

2025 HED Integrated
Resource Plan

Strategic Priorities

Roadmap for current and
future needs while balancing
cost, reliability, and
environmental impact.

Current Electricity Portfolio

Energy Sources

- **Hydroelectric (Wolcott Facility):** Historically provided ~10% of HED's energy, but currently offline due to flood damage; expected back in service by 2026–2027
- **Solar (H11 Project):** Now contributes 6% of annual energy needs
- **Other Sources:** Internal power purchases amongst VPPSA members, as well as regional ISO-NE energy market purchases

Demand Trends

- Overall demand is relatively flat, with modest long-term growth expected.
- Electrification trends (EVs, heat pumps) are expected to offset reductions from net metering

Renewable Energy

Community Solar: HED is actively supporting customer net-metered solar development, and utility-scale solar including the H11 solar array.

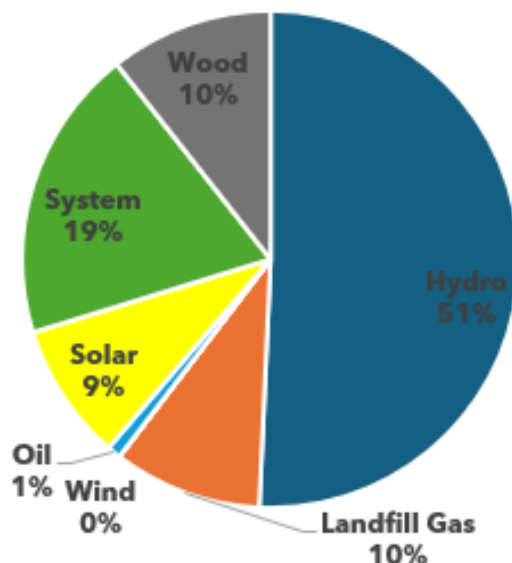
Local Hydro: Commitment to restoring the Wolcott hydro facility.

Wind & Other Renewables: No specific wind projects mentioned, but HED is aligned with VPPSA's broader renewable strategy to meet 100% renewables per the RES.

Technology Roadmap: Emphasis on smart grid tech to support renewable integration and customer engagement

HED ENERGY RESOURCE PORTFOLIO (2024)

2024 MWH



PEAKING RESOURCES FIXED, FUEL- COST PRICING

- JOINTLY OWNED WITH VPPSA MUNICIPALS; PPAs
- FIRM OR FIXED DELIVERY

BASELOAD RENEWABLE RESOURCES FIXED/O&M ONLY PRICING

- HYDROELECTRIC
- UTILITY OR MUNI-OWNED, MARKET PURCHASES, PPAs, CONTRACTUAL
- BIOMASS & LANDFILL GAS
- MARKET COVERAGE & PPAs

INTERMITTENT RENEWABLE RESOURCES

- UTILITY & SMALL-SCALE SOLAR
- PPAs; NET-METERED
- WIND
- LARGE AND SMALL SCALE PPAs
- VERMONT STANDARD OFFER PROGRAM

EXISTING POWER SUPPLY RESOURCES

Table 12: Existing Power Supply Resources

Resource	2024 MWh	% Of MWh	2024 MW	Delivery Pattern	Price Pattern	REC	Exp. Date
2019 Planned Purchase	2,538	6.85%	1.163	Firm	Fixed	No	03/31/2024
Brookfield 2023-2027	8,784	23.69%	1	Firm	Fixed	Yes	12/31/2027
Billings Road Solar	2,378	6.41%	1.6	Intermittent	Fixed	Yes	11/03/2046
Chester Solar	938	2.53%	0.725	Intermittent	Fixed	No	06/30/2039
Fitchburg Landfill	3,591	9.68%	0.506	Intermittent	Fixed	Yes	12/31/2031
McNeil Facility	2,904	7.83%	0.0796	Baseload	Fuel Cost	Yes	Life of Unit
NYPA Niagara Contract	3,994	10.77%	0.1042	Baseload	Fixed	Yes	04/30/3032
NYPA St. Lawrence Contract	137	0.37%	0.013	Baseload	Fixed	Yes	04/30/2032
Project #10	113	0.30%	3.88	Peaking	Fuel Cost	No	Life of Unit
Ryegate Facility	1,038	2.80%	0.1435	Baseload	Fixed	Yes	10/31/2032
Short Term Coverage	3,614	9.75%	Varies	Firm	Fixed	No	Varies
Standard Offer Program	937	2.53%	Varies	Intermittent	Fixed	Yes	Varies
Stetson Wind 2023-2027	5,893	15.89%	2.7816	Intermittent	Fixed	Yes	12/31/2027
Stony Brook Station	217	0.59%	1.858	Peaking	Fixed	No	Life of Unit
Wolcott Hydro	0	0.00%	0	Run of River	O&M Only	Yes	Life of Unit
TOTAL	37,077	100.00%					

Source: Vermont ePUC [Case No. 25-0853-PET](#) - Town of Hardwick Electric Department 2025 Integrated Resource Plan Filing (dated May 1, 2025);

Renewable Energy Standard (RES 1.0)

HED RES OBLIGATION REQUIREMENTS (2025-2035)

Table 15: RES Requirements (% of Total Load Including Losses)

Year	VT_1	Net VT_1	VT_2	VT_3	VT_4
2025	63.00%	57.20%	5.80%	6.00%	0.00%
2026	63.00%	55.70%	7.30%	6.67%	0.00%
2027	63.00%	54.20%	8.80%	7.34%	0.00%
2028	67.00%	56.70%	10.30%	8.00%	0.00%
2029	67.00%	55.20%	11.80%	8.67%	0.00%
2030	67.00%	48.70%	13.30%	9.34%	5.00%
2031	71.00%	51.20%	14.80%	10.00%	5.00%
2032	71.00%	49.70%	16.30%	10.67%	5.00%
2033	71.00%	48.20%	17.80%	10.67%	5.00%
2034	75.00%	50.70%	19.30%	10.67%	5.00%
2035	100.00%	70.00%	20.00%	10.67%	10.00%

Source: Vermont ePUC [Case No. 25-0853-PET](#) - Town of Hardwick Electric Department
2025 Integrated Resource Plan Filing (dated May 1, 2025);

RES 1.0 COMPLIANCE TIERS I - IV

TIER I

TOTAL RENEWABLE ENERGY

- Resources classified as renewable generator capable of delivering RECs to ISO New England markets.

TIER II

RENEWABLE DISTRIBUTED ENERGY RESOURCES

- In-State Renewables <5MW and directly connected to the sub-transmission or distribution systems.
*Now includes municipal-owned hydroelectric generators i.e. Wolcott Hydro

TIER III

DEMAND-SIDE ENERGY TRANSFORMATION

- Incentivizing customers through rebates and programs to reduce fossil fuel usage.

TIER IV

NEW RENEWABLE ENERGY

- Renewable energy generated and put into service on or after January 1, 2010 located within the ISO-New England/New England region.

Customer Programs & Services

Customer Programs & Services



Business Energy Repayment Assistance Program (BERAP)

Joint VPPSA member utility grant program

Offers low interest loans to commercial customers that can cover 100% of Tier III eligible project costs.

For more information, visit:

berap.vppsa.com

Cabot Hosiery Mills (Northfield) Ribbon Cutting:

<https://vppsa.com/cabot-hosiery-mills-celebrates-energy-upgrades-with-ribbon-cutting-ceremony/>



Smart Hours Pilot Program (Residential EV Charging)

EV Tariff Rider Pilot gives customers a new way to manage energy use by giving offering dynamic, market-based pricing for EV charging loads. Rather than having a fixed or tiered rate, eligible customers can use hourly energy prices to charge EVs at home when energy costs are lowest.

For more information, visit:

<https://vppsa.com/resources/rebate-forms/smarthours/>


Customer Rebate & Incentive Programs

Downstream (Post-Purchase) Rebates

- On behalf of member utilities (including HED), VPPSA administers a robust rebate and incentive program for customers.
- Several enhanced incentives available for income-qualifying customers
- More info at: www.vppsa.com/rebates

Midstream (Point-of-Purchase) Rebates

- HED offers several EVT-Administered rebates such as heat pumps and wood/pellet stoves through the statewide midstream (point-of-sale) program.
 - EVT also has enhanced rebates for HED customers:
<https://www.encyvermont.com/vppsa>
- HED also partners with several EV dealerships to offer point-of-sale incentives for the purchase of all-electric and hybrid electric vehicles.



ABOUT ▾ MEMBERS ▾ SERVICES ▾ ENERGY ▾ RESOURCES ▾

Need help? Check out our Online Rebate Application Customer User Guide or email rebates@vppsa.com

Apply Online

2025 Rebate & Incentive Offerings

E-Bikes & Electric Scooters	+
Electric Golf Cart & Utility Vehicles	+
Electric Forklifts & Stock Chasers	+
Electric Motorcycle	+
Electric Snowmobiles	+
Electric Vehicles	+
Electric Vehicle Supply Equipment (EVSE) Charging	+
Electric Lawnmower	+
Electric Lawn Care	+
Heat Pump + Weatherization	+
Window Inserts	+

Apply Online

Customer Programs & Services (Coming Soon)...



Affordable Community Renewable Energy (ACRE) Grant: “Field-to-Family”

Joint VPPSA member utility grant program

Offers reduced cost, renewable energy block with membership for income qualifying customers.

HED Enrollment Goals: 99 participants with \$1,573 in energy savings over a 5-year program period.



Energy Storage Access Program (ESAP) Grant Projects

Joint grant program: VPPSA member utilities; Washington Electric Coop; Burlington Electric Department

Part 1: Funding to solicit, select, and implement a common Distributed Energy Management System (DERMS) – In Progress

Part 2/3: Funding to procure and install energy storage systems (ESS) at critical municipal owned buildings and for income qualifying residential customers – Initial Phases

Future Project Priorities & Initiatives

Capital Investments & Improvements



Financing through traditional loans and bonds



FEMA Reimbursement Programs



Joint Grant Programs (VPPSA & State Programs)



Tariff/Rate Increase (13.24% Rate Increase filed 4/16/2025, [Case No. 25-0729-TF](#))

Future Projects & System Improvements



Power Systems Engineering Study: Identify & Prioritize Capital Improvement Projects



Grid Modernization & Digitization (IT/OT Investments): Website & Customer Systems, GIS, AMI, OMS, DERMS, etc.



Resilience & Reliability: Strategic analysis of energy storage system solutions and interconnecting DER



Community Partnerships & Collaboration: Engage with community stakeholders to support grid improvement projects

Thank you.

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