Efficiency Vermont Demand Resource Plan Update

VSPC Forecasting Subcommittee Meeting

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DRP Stakeholder Engagement Goals

1

Understand and integrate stakeholder feedback into our proposal – including a new focus on gathering input from underserved Vermonters and the organizations that serve them

2

Increase the value that Efficiency Vermont delivers to partners and customers by engaging them in the DRP regulatory process

3

Build a record of documented stakeholder engagement and feedback, including how it shaped our proposal

Context and Background

For the 2021-3 DRP

- Interviewed 31 partners and customers
- Focused on:
 - Large business customers
 - State agencies
 - Low-income service providers
 - Environmental organizations
 - Economic development organizations
 - Utility partners
- Technical feedback from the VSPC Forecasting Subcommittee

For the 2024-6 DRP

- Interviewed 58 partners and customers
- Focused on:
 - Large business customers
 - State agencies
 - Low-income service providers
 - Environmental organizations
 - Economic development organizations
 - Utility partners
 - Advocates and service providers for underserved residential customers
 - Trade allies and supply chain partners
- Public Survey (1,300+ respondents) & leveraging existing public research data/insights
- Technical feedback from VSPC Forecasting Subcommittee

Key Takeaways from stakeholder feedback

Focus on GHG Reduction and Equity

Both were very broadly supported by partners and customers

Continue to improve Access and Flexibility for Core EEU services

Both business and residential customers want a clear and simple process – and to get Efficiency Vermont support for a broader range of energy projects

Efficiency Vermont plays a critical Coordinating role

Partners and customers look for EVT support at a broad level – and beyond energy savings

Key Takeaways from stakeholder feedback

A small budget increase is acceptable, even if the EEC increases

Most stakeholders felt this was a reasonable approach. There was not a strong desire to move to three year versus annual adjustments for the Energy Efficiency Charge (EEC).

Future of Act 151 Transportation programs

Though stakeholders were generally supportive of Efficiency Vermont transportation efforts, the future of the Act 151 pilot is ultimately up to the legislature

2024-6 DRP Proposal Direction - Supported by

Stakeholder Feedback

Focuses on GHG reduction

Focuses on Equity

Increases budget by 2% per year

- Doubles the weighting of the current GHG performance metric
- Support for new GHG measures
- Devotes resources to public engagement and defining updated equity metrics
- New equity measures to enable flexibility and easier access for underserved residential and business customers
- Increases low-income budget
- Reflects a very conservative approach to managing inflationary pressures
- Continue to recalculate annually

DRP Proposal Direction

Continues coordination – while quantifying costs/benefits

Improves the value & flexibility of core Efficiency Vermont services

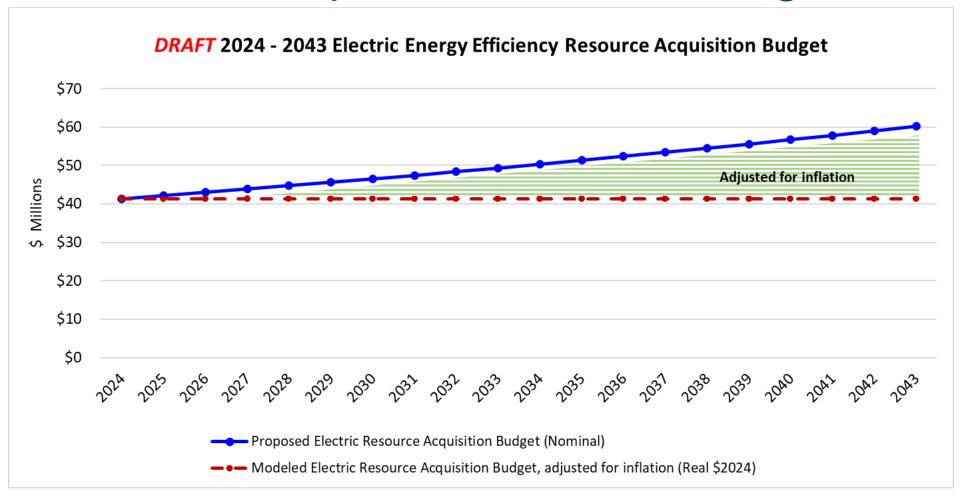
Does not include Act 151 transportation programs

- Continue Better Building by Design and Best Practices Exchange forums
- Streamline systems & processes for federal, state, and Tier 3 implementation
- Work with regulators on VEIC indirect rate
- Flexible Load Management continues
- Energy Savings Account continues
- New measures for business and residential
- Focus on underserved (small businesses, renters)
- Legislative decision will be needed in 2023

Draft
Electric DRP
Budget Proposal
and
Modeling Results



Draft Proposed Electric Budget



- Target Annual Electric RA Budget for Model: \$41.3M Flat
- 2023 Estimated Electric RA Budget: \$40.5M
- Assumes a rate of inflation of 2% over 20 years

Electric Residential, C&I, and Low Income Resource Acquisition (RA) Budget Sector Splits

EEC Sector Budgets					
	Draft EEC Annual RA Budget	% Residential	Annual Residential Budget	% C&I	Annual C&I Budget
2024-2027	\$41.3M	43%	\$17.8M	57%	\$23.5M
2028-2032	\$41.3M	46%	\$19.0M	54%	\$22.3M
2033-2043	\$41.3M	48%	\$19.8M	52%	\$21.5M

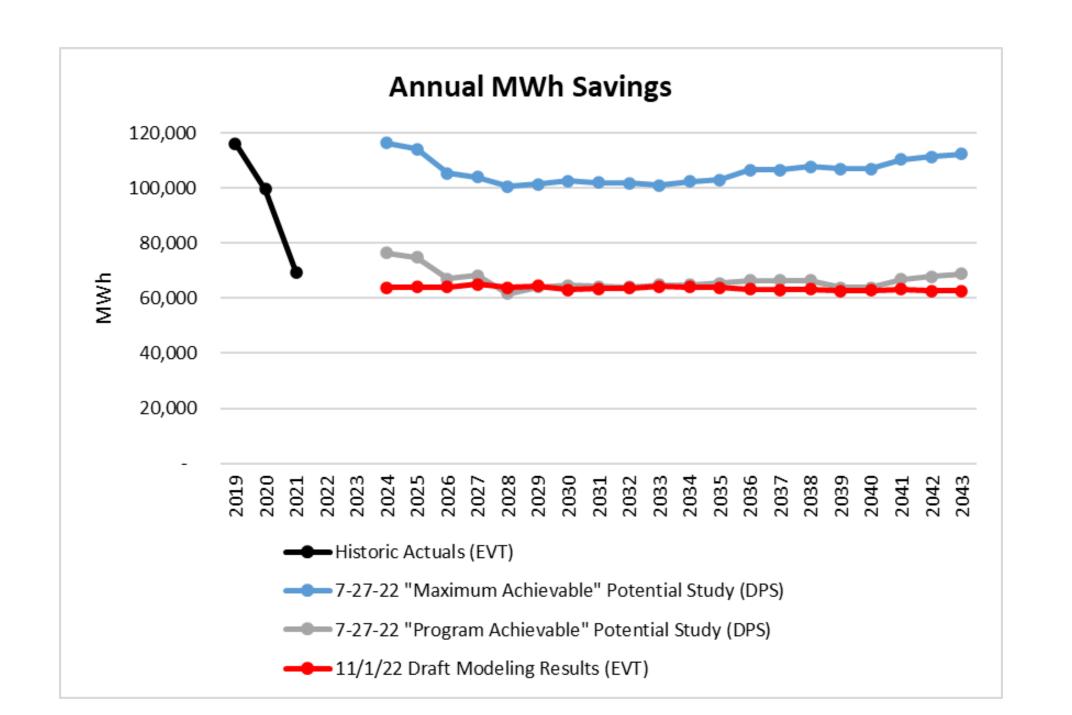
Last DRP had 2024-2027 RES % at 43% through 2027 then increasing to 48% by 2033

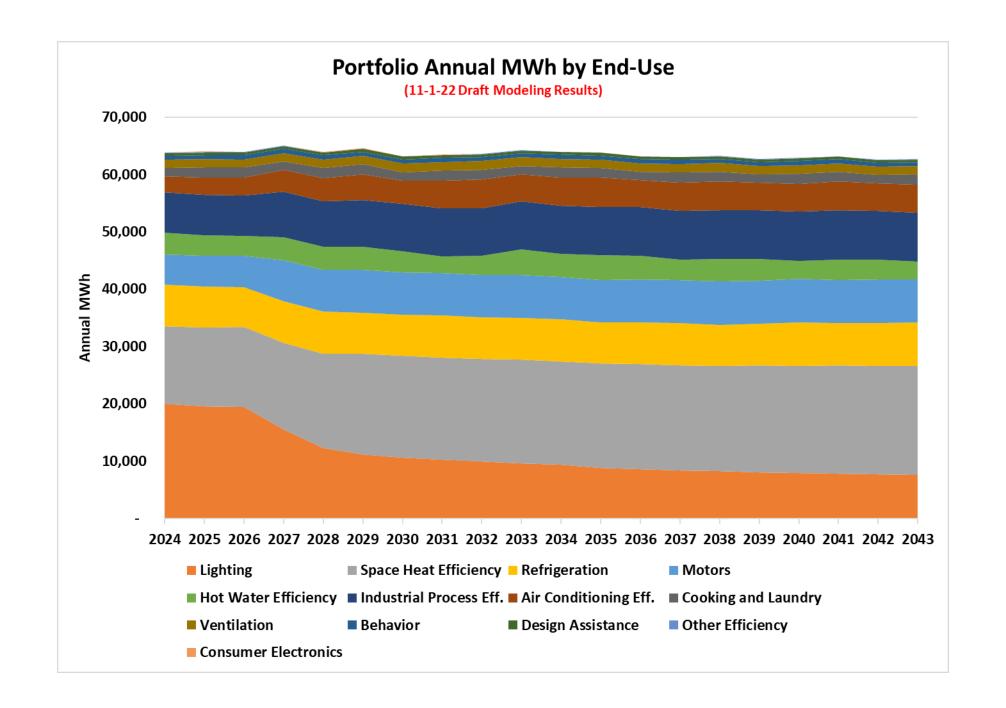
	Draft EEC Annual RA Budget	% Low Income	Annual Low Income Budget
2024-2043	\$41.3M	12.1%	\$5.0M

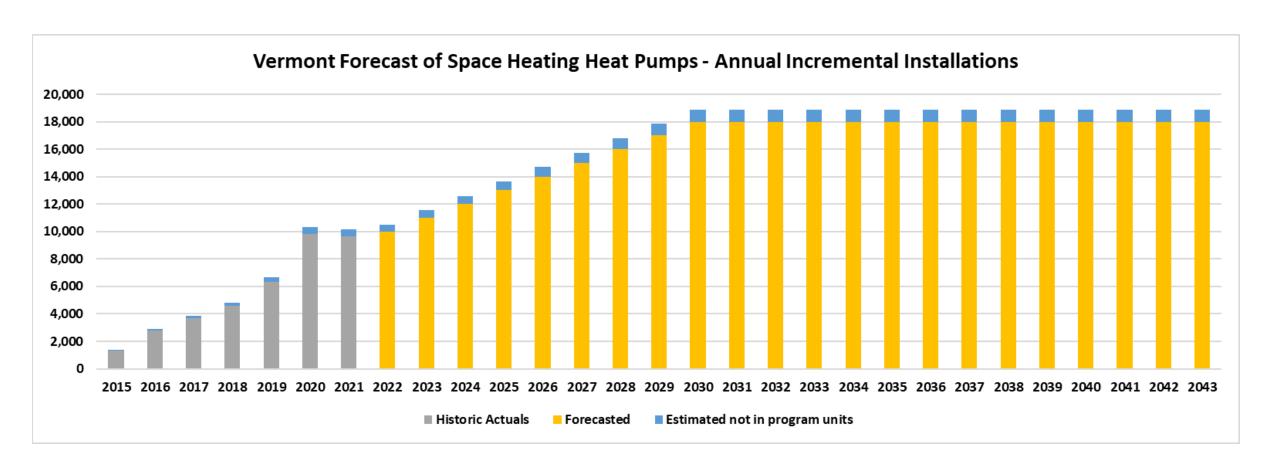
Evolving Services Budgets

	2024	2025	2026	2024-2026
Flexible Load Management (FLM)	\$1.17M	\$1.17M	\$1.17M	\$3.51M
Refrigerant Management	\$1.45M	\$1.45M	\$1.45M	\$4.35M
Act 151 (Transporation + Thermal)	\$1.98M	\$1.98M	\$1.98M	\$5.94M
Energy Savings Accounts (ESA)	\$1.40M	\$1.40M	\$1.40M	\$4.20M
Total	\$6.0M	\$6.0M	\$6.0M	\$18.0M
Total	\$4.0M	\$4.0M	\$4.0M	\$12.1M

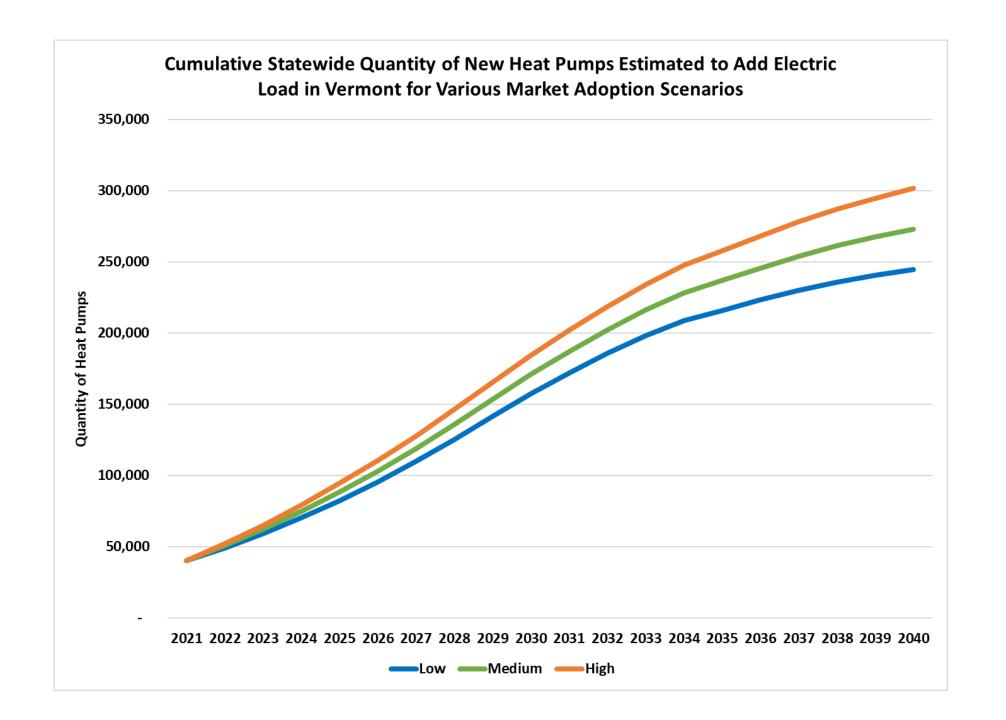
Act 151 budget removed from draft DRP model as current transportation pilot ends 12/31/23. Budget in model shifted to increased commercial and industrial lighting from 2024-2027 than increased weatherization of homes electrically heated by heat pumps from 2028-2043.

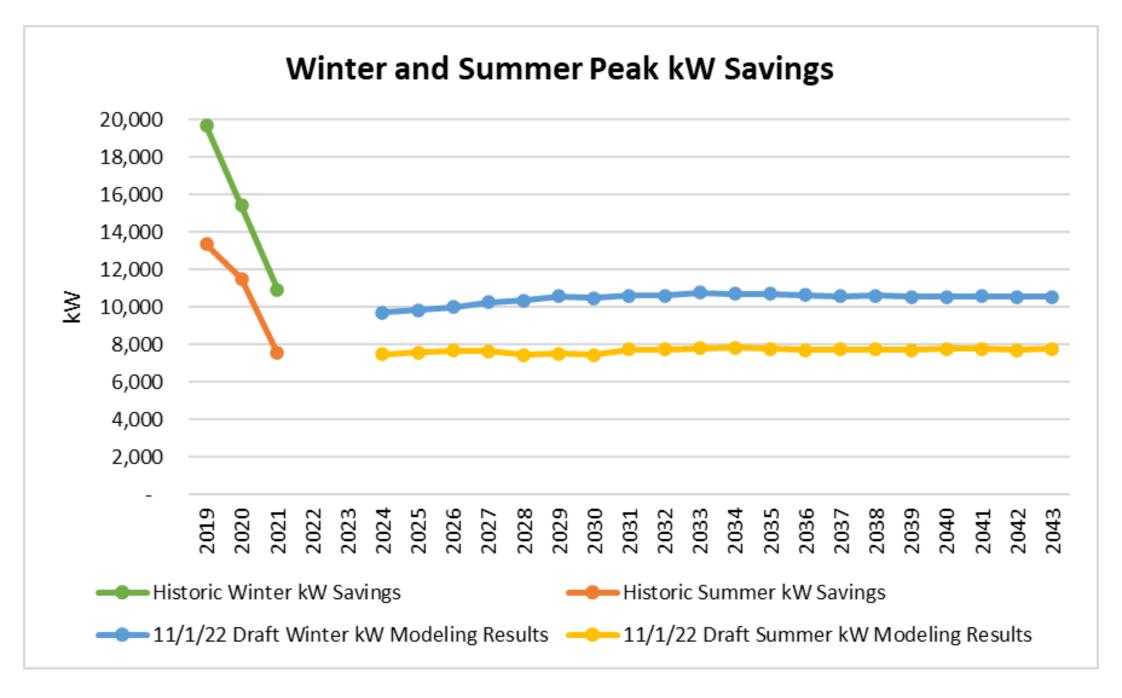






These totals represent all types of space heating heat pumps including ductless, ducted, air-to-water, and ground source systems.





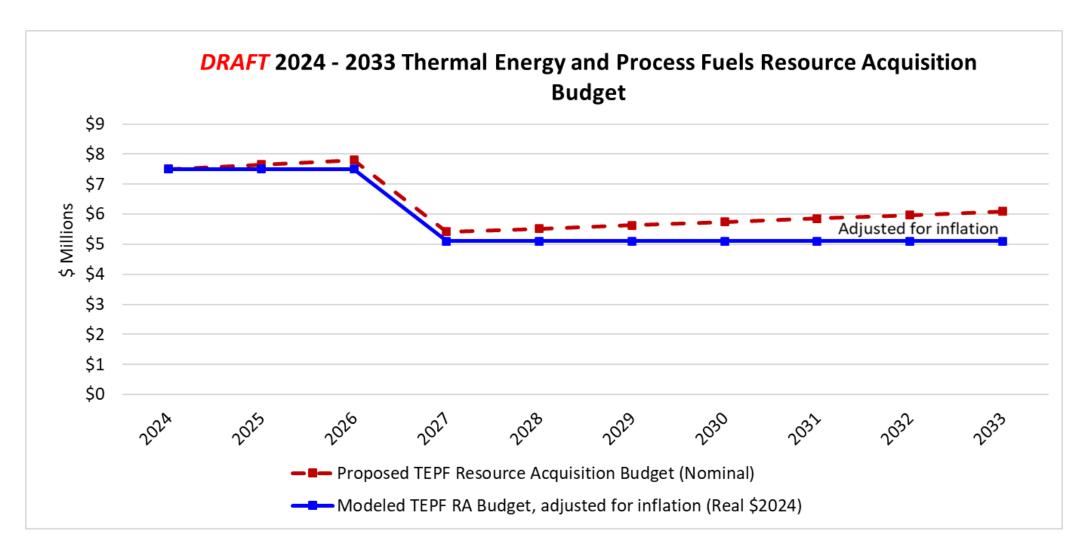
Draft Electric Results Summary (11/1/22)

Electric QPI #	Electric Performance Metrics	2024-2026
1	Total Resource Benefits	\$185,815,900
2	Annual MWh	191,800
3	Summer Peak kW	22,800
4	Winter Peak kW	29,600
5	Lifetime MWh	2,498,700
	GHG reductions (Electric energy + non-	
6	energy) - Metric Tons CO₂e	121,400
7	Flexible kW	3,600

Draft Thermal
Energy and
Process Fuels
(TEPF) DRP
Modeling Results



Draft TEPF Budget

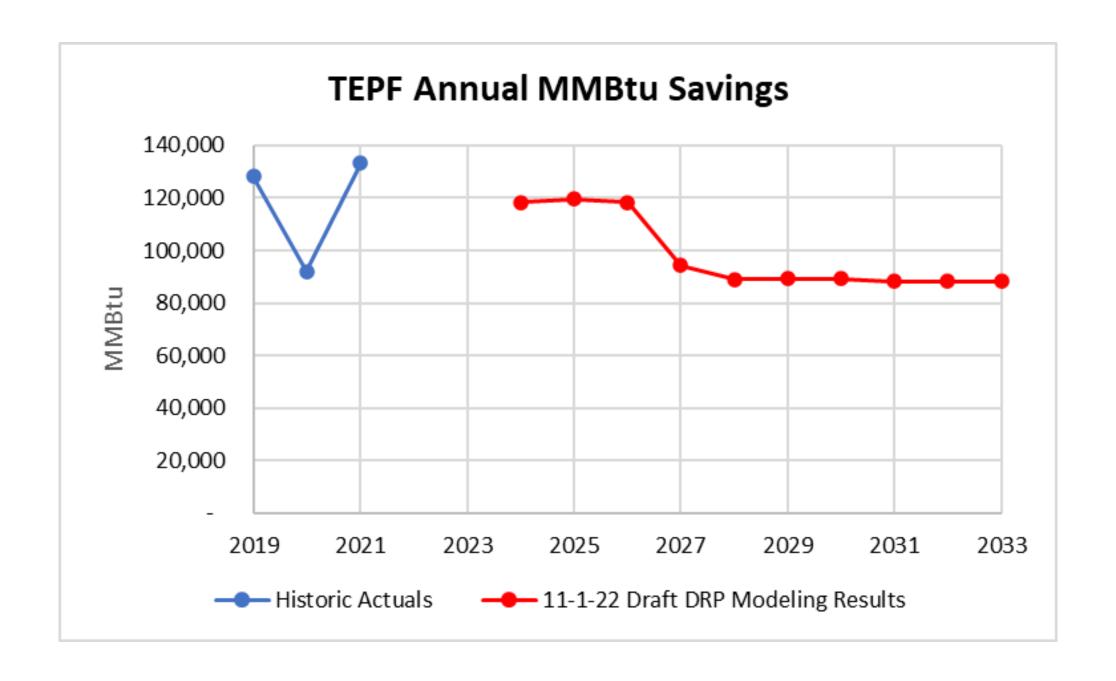


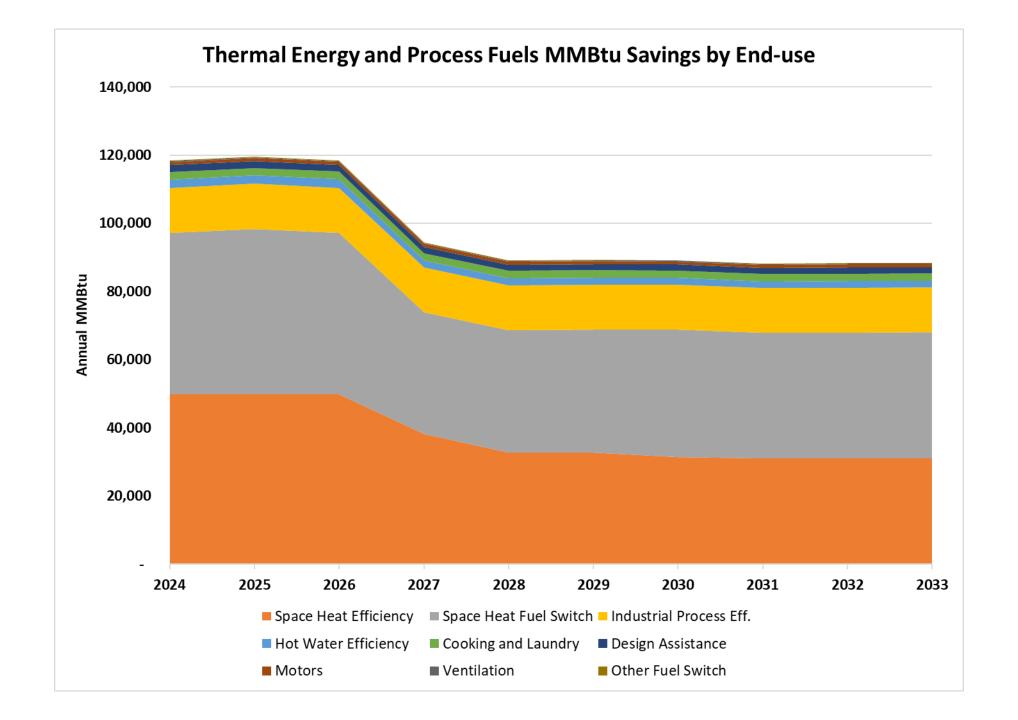
TEPF Residential, C&I, and Low Income Budget Sector Splits

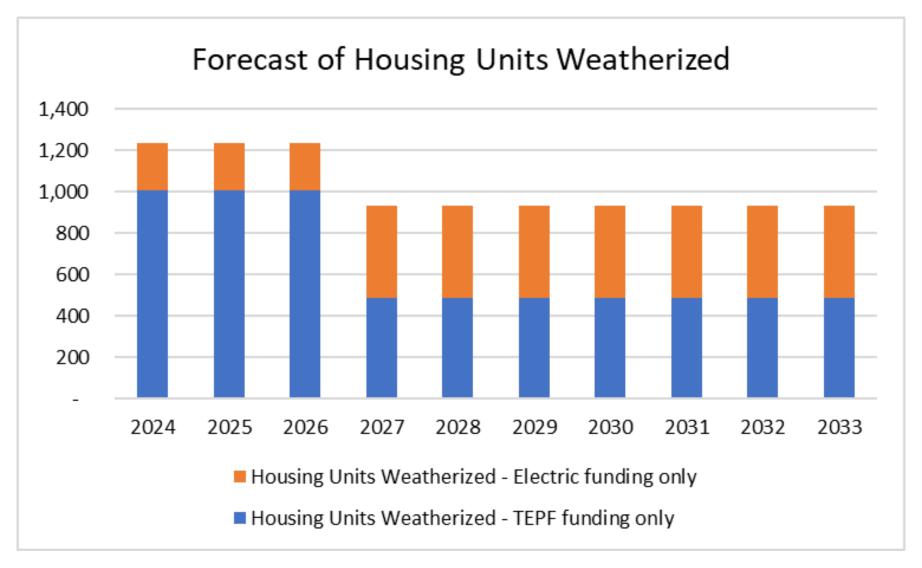
TEPF Sector Budgets					
	Draft TEPF Annual RA	% Residential	Annual Residential Budget	% C& I	Annual C&I Budget
	Budget				
2024-2026	\$7.5M	75%	\$5.6M	25%	\$1.9M
2027-2033	\$5.1M	75%	\$3.8M	25%	\$1.3M

	Draft TEPF Annual RA Budget	% Low Income	Annual Low Income Budget
2024-2026	\$7.5M	21.0%	\$1.6M
2027-2033	\$5.1M	21.0%	\$1.1M

2021-2023 TEPF budget is \$7M per year. Same percentage assumptions for Res, C&I, and Low Income as shown here.







- Includes both multifamily and single-family homes.
- 2024-2024 totals are 50% moderate/low income and 50% market rate
- 2027 2033 totals are 100% moderate and low income

Draft Thermal Results Summary (11/1/22)

TEPF QPI#	TEPF Performance Metrics	2024-2026
1	MMBTU	356,300
2	Residential Comprehensiveness	
2a	a. Air Leakage Reduction	34%
2b	b. Insulation	44%
2c	c. Weatherization & Heating Systems	16%
3	Number of Housing Units Weatherized	3,700
	GHG reductions (TEPF energy + non-energy) -	
4	Metric Tons CO₂e	20,600

Thank you!

Questions?

Input/Feedback?

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