

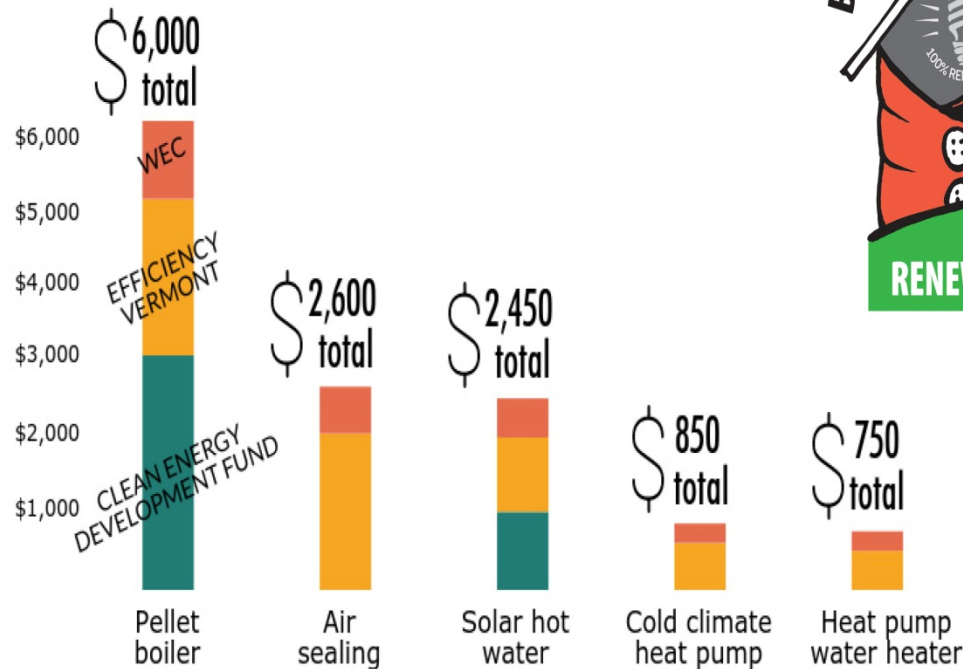
# WEC Tier 3 Annual Plan 2018

Vermont System Planning Committee  
24 January 2018



# What's my incentive to Button Up?

If you're looking to seal up your home, or are in the market for energy-efficient heating systems, WEC's Button Up! home energy efficiency program offers cash incentives to members. In combination with Efficiency Vermont incentives and grants from the Clean Energy Development Fund, you could save a lot of money:

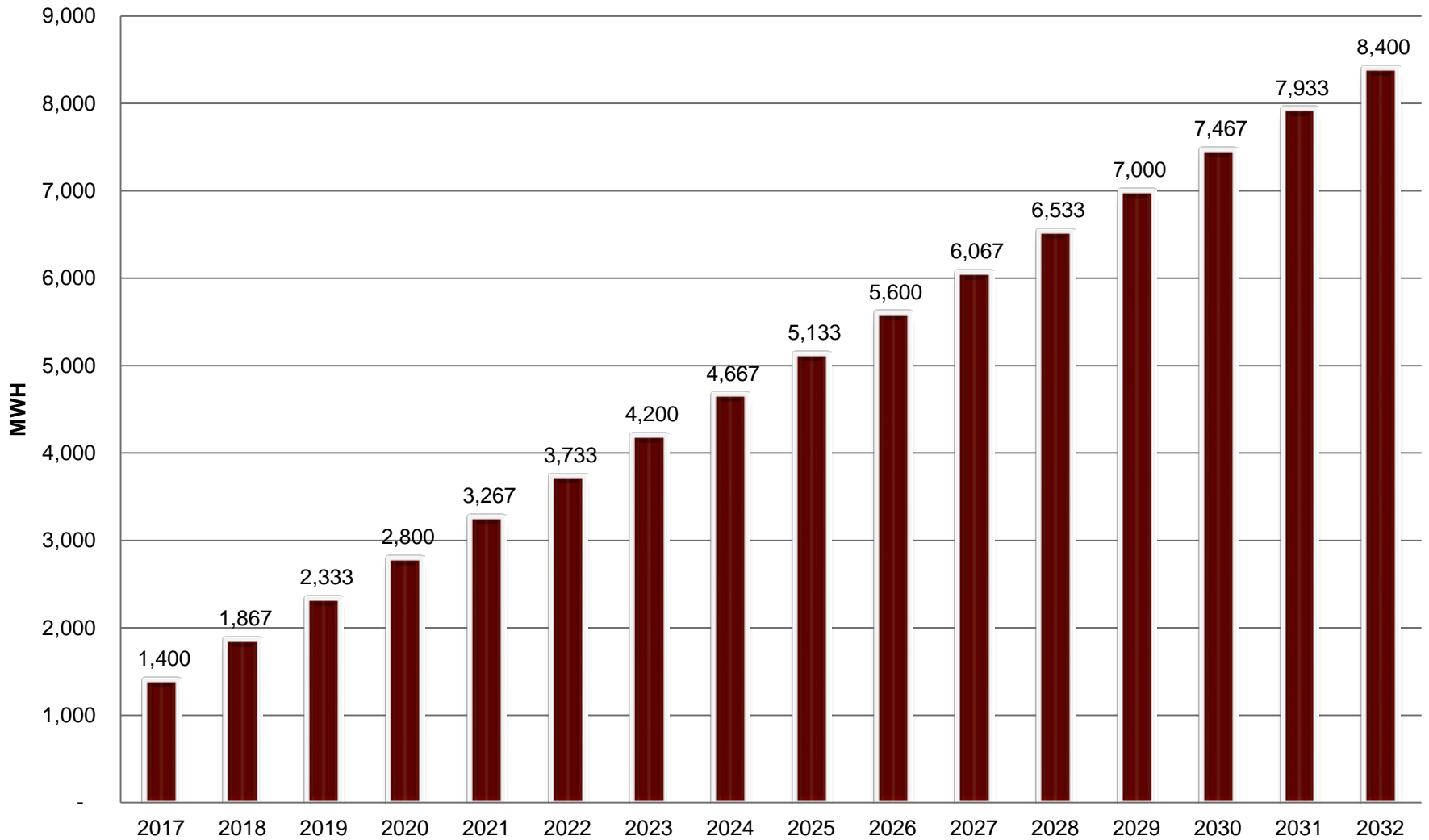


Before you buy any new energy-efficient appliance, call Bill Powell, WEC's Energy Coach, to learn how you can take full advantage of this program:

**802-224-2329**

**energycoach@wec.coop**

# WEC Tier 3 Requirements (MWH) (fossil fuel equivalent)



Program Year	<b>2018</b>
Utility Sales (kWh)	<b>69,427,967</b>
Compliance Rate	2.67%
MWh Target	1,851
With 10% Buffer	2,092
Maximum Investment (ACP)	\$ 112,529
Maximum Investment (ACP) with 10% Buffer	\$ 123,782
<b>Modeled Savings Totals</b>	<b>1,945</b>
<b>Over/(Under) Target plus 10% Buffer</b>	<b>(147)</b>
<b>Non-Incentive Totals</b>	<b>10,000</b>
<b>Gross Incentive Totals</b>	<b>\$ 113,950</b>
<b>Incentives Net of Grants</b>	<b>\$ 66,450</b>
<b>Yield (\$/MWh)</b>	<b>\$ 39</b>

Measure		Units	MWh Savings	Incentives
Multi Zone Cold-Climate Heat Pump (CCHP) with no Controls and High Performing Home	per unit	3	62.4	\$1,000
	Total		187.1	\$3,000
Single Zone Cold-Climate Heat Pump (CCHP) with no Controls and High Performing Home	per unit	5	29.4	\$650
	Total		146.8	\$3,250
Heat Pump Water Heater (HPWH)	per unit	15	16.9	\$850
	Total		253.9	\$12,750
Pellet Heating	per unit	2	128.4	\$3,000
	Total		256.8	\$6,000
All Electric Vehicle*	per unit	15	32.9	\$1,900
	Total		493.5	\$28,500
Plug-in Hybrid Electric Vehicle*	per unit	10	18.5	\$1,900
	Total		185.2	\$19,000
Weatherization	per unit	20	20.0	\$2,000
	Total		400.0	\$40,000
Solar Hot Water	per unit	1	21.6	\$1,450
	Total		21.6	\$1,450

\* Funded by Grant Dollars

# •Proposed Measures & Program Design

- Working with Efficiency Vermont (EVT) WEC has promoted “**Button Up WEC**”, using cooperative marketing support for a well-recognized residential weatherization campaign.
- Weatherization** – These measures claim savings for the installation for insulation and air leakage reduction measures in a residential or commercial application. Savings will be calculated on a custom basis by project. Weatherization (WX) for income eligible WEC member residences will be coordinated with Capstone of Barre. Income eligibility based on current Vermont Agency of Human Services (AHS) levels.

## •Proposed Measures & Program Design (continued)

•**Cold-Climate Heat Pumps** - This measure claims savings for the installation of single or multi head variable speed mini-split heat pumps in a residential application, within a thermal shell meeting a performance standard. The measure is characterized as a custom retrofit measure claiming thermal energy savings for heating and electric heating and cooling penalties versus the installation of a baseline heat pump. The TAG approved savings claim for an eligible CCHP has been reduced for 2018, compared to prior TAG characterization; the effect of this change is to force a higher target of CCHP installations in 2018.

## •Proposed Measures & Program Design (continued)

•**Heat-Pump Water Heaters** - This measure claims savings for the installation of an ENERGY STAR heat pump water heater (HPWH) in place of the existing water heater in a residential or commercial application. The measure is characterized for retrofit applications. Savings are presented dependent on the existing fossil water heater fuel type. HPWH fossil fuel efficiency savings has been reduced to account for a heating penalty is assessed to account for the impact of the heat pump water heater on the water heating load.



## •Proposed Measures & Program Design (continued)

•**Solar Hot Water** - This measure is characterized as a retrofit and applies to the installation of a new solar water heating system that has a Solar Rating Certification Council (SRCC) OG-300 qualified performance rating in a residential building. Backup hot water is provided by resistance electric within the solar hot water storage tank.

## •**Proposed Measures & Program Design (continued)**

•**EV Charging Stations** - This measure applies to the installation of a Level 2 charging station at a public location or a residential building. WEC has been responsible for the installation of five Type II EV stations in its service territory.

•**EV Incentive** - WEC plans to offer an incentive of up to \$1900 per EV purchased in 2018 by low and moderate income WEC households. WEC will use current income eligibility levels as provided by the state of Vermont Agency of Human Services. The EV incentive funding source is from dollars remaining in WEC's 2015 VLITE grant award. WEC used a grant from VLITE to fund charging stations. Remaining dollars in the grant will be pursued to fund incentives.

