



Evaluation, Measurement and Verification (EM&V) update

February 28, 2024
Energy Efficiency
Implementation Project
(EEIP)

Heat Pump Working Group Overview

Energy consumption illustration

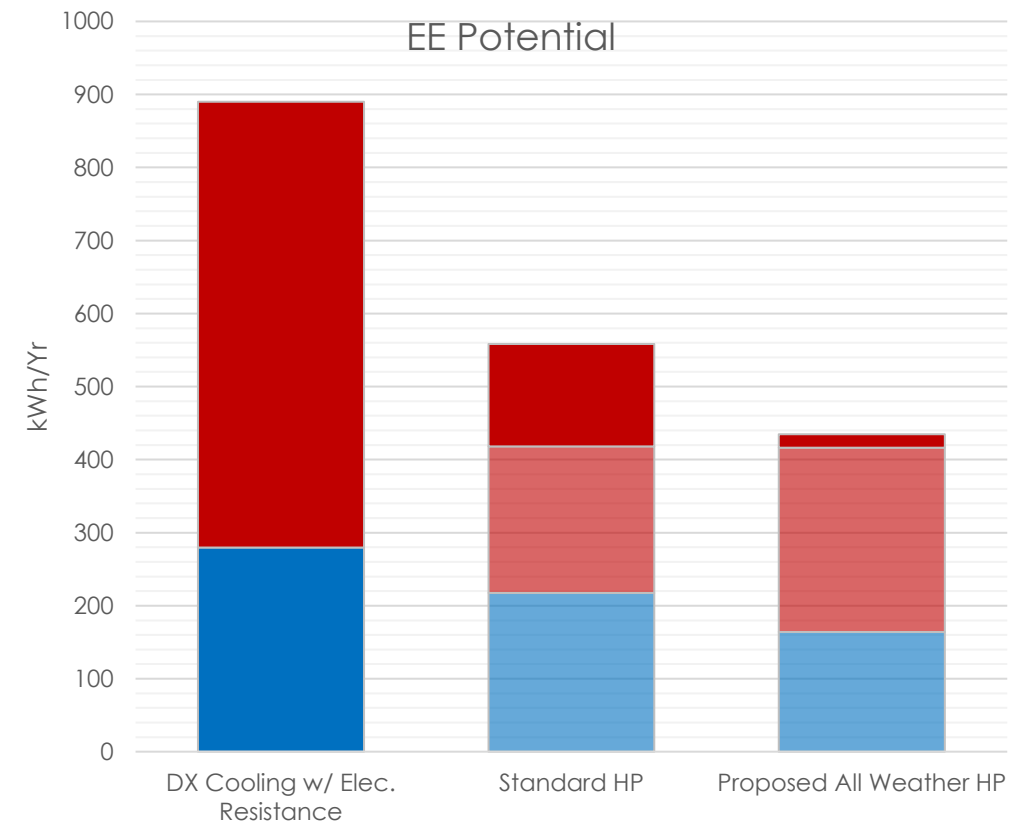
Heating and cooling loads stay the same regardless of HVAC equipment

(Graph to right is a hypothetical load in TX)

Cooling with heat pump can reduce consumption by 20%-40%

Heating with a heat pump reduces consumption about 50% from electric resistance.

Proposed all weather heat pump further reduces consumption from both cooling and heating.



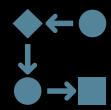
Working Group Objective

Working Group Objective:
Identify energy efficiency of
all weather (variable speed)
heat pumps



How do we get there?
Dialogue with stakeholders
to identify short-term
technical adjustments and
long-term energy
efficiency opportunity and
TRM updates

Outcomes



Update Heat Pump prescriptive measure for the
PY2025 TRM



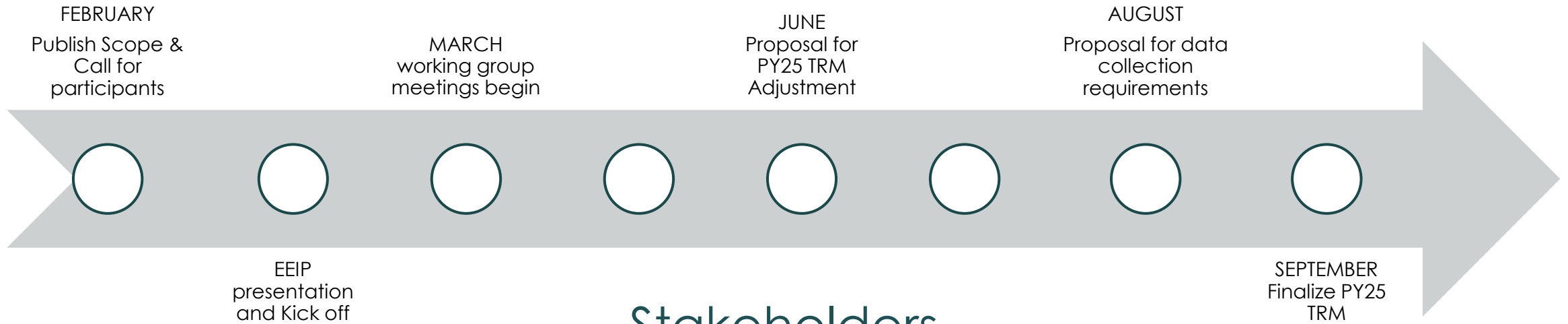
Define necessary data
collection

Equipment specifications?
Residence characteristics?
Energy consumption?



Scope proposed approach for long-term
adjustment

Work Group Planning



SPEER working group	Manufacturers	Installers	Utilities and Implementers	EEIP List serve

Summer load
management
deemed value

Residential smart thermostat deemed value for summer load management

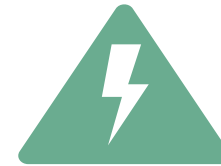


Streamlined participation option for use in a pilot residential load management programs and areas where deployment of AMI meters is ongoing.



The proposed approach is based on census interval meter data available for the years 2020, 2021, and 2022 from CenterPoint and Oncor

combined with documentation requirements established for EL Paso Electric's deemed approach.



Average value of 1.4 kW across utilities and events is recommended deemed value.