

Utility Potential Calculator

2017 7th Power Plan Version



Agenda

- High Level overview presentation
- Utility Potential Calculator Tutorial
- Questions

Background

- BPA has had a Utility Potential Calculator (UPC) on its website since the 6th power plan
- Located on the BPA website
- <https://www.bpa.gov/EE/Utility/toolkit/Documents/Utility-Potential-Calculator.xlsx>

Background

- The UPC exists to help utilities determine the potential for energy efficiency in their service territories
- Requires inputs on the characteristics of a utility territory
- Outputs are aMw and peak hour mW by sector and end use

Utility Potential Calculator

Overview

Transparent tool utilizes 7th Plan measures and data to estimate energy efficiency potential for utilities.

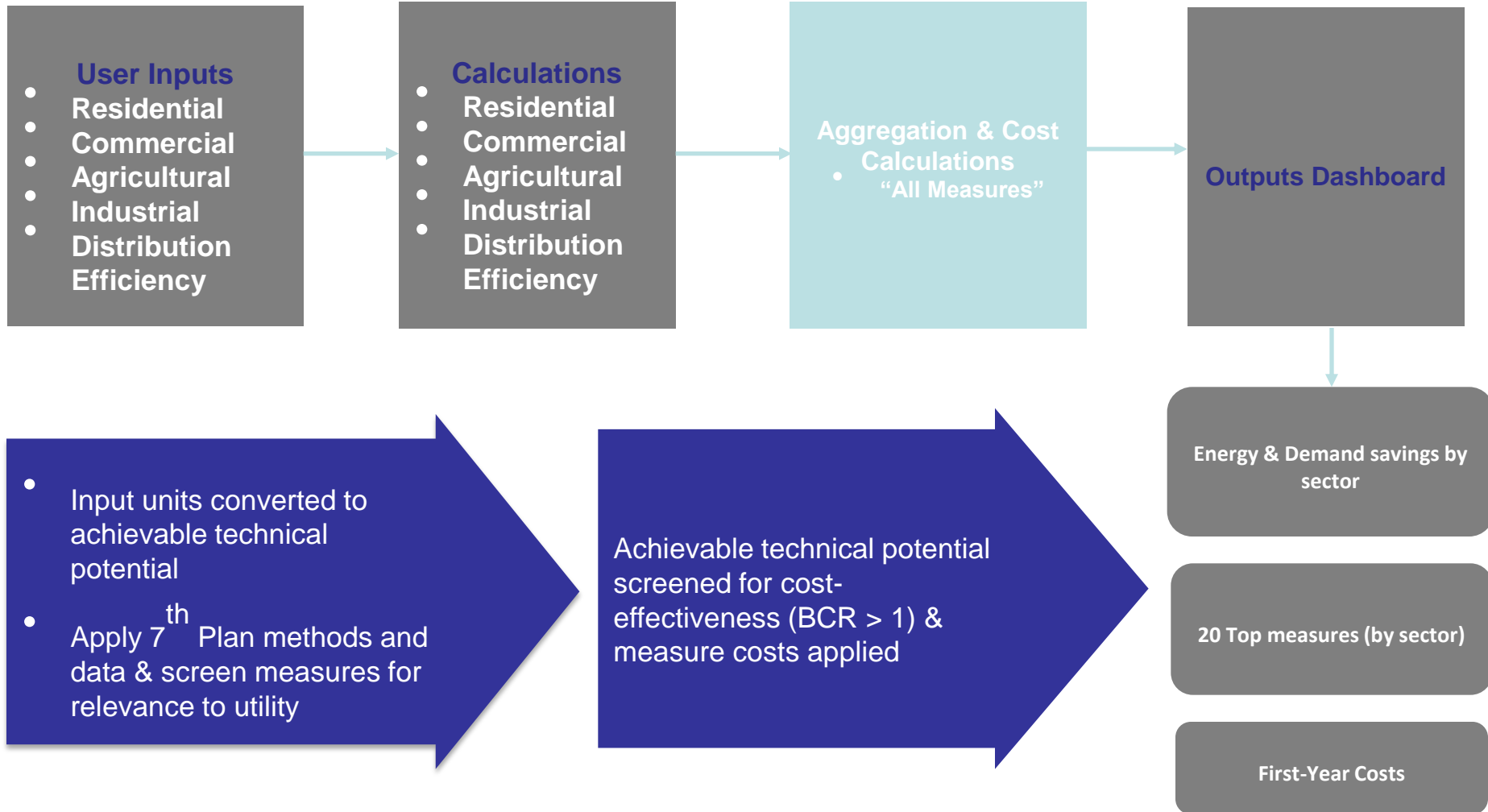
Includes all 7th Plan measures, ramp rates, unit energy savings, costs, applicabilities, saturations, and methods in one workbook.

Customizable inputs for housing stock, population, floor space, industrial load, growth rates, and heating system and appliance saturations.

Produces savings estimates by measure, measure category, end use, and sector.

Utility Potential Calculator

Structure



Methodology

- UPC estimates EE potential by using the measures identified in the 7th power plan
- Not every 7th plan measure is in the BPA portfolio
- Potential is “economically achievable” meaning technically achievable and TRC cost effective

Methodology

- UPC meets the power council guidelines for potential studies
- However, the **UPC is not a substitute** for a Conservation Potential Assessment (CPA)
- Results are only as good as the inputs

Use of UPC

- UPC is a regional tool, individual utilities are not like the region
- Unique differences include:
 - Building Stock
 - Available Measures
 - Avoided Cost
 - Baselines (saturation)
 - Availability of efficient equipment
 - Consumer preference and demand

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