California Energy Commission

Title: Residential Sector Baseline Electricity Consumption Forecast Draft Results for CED 2023

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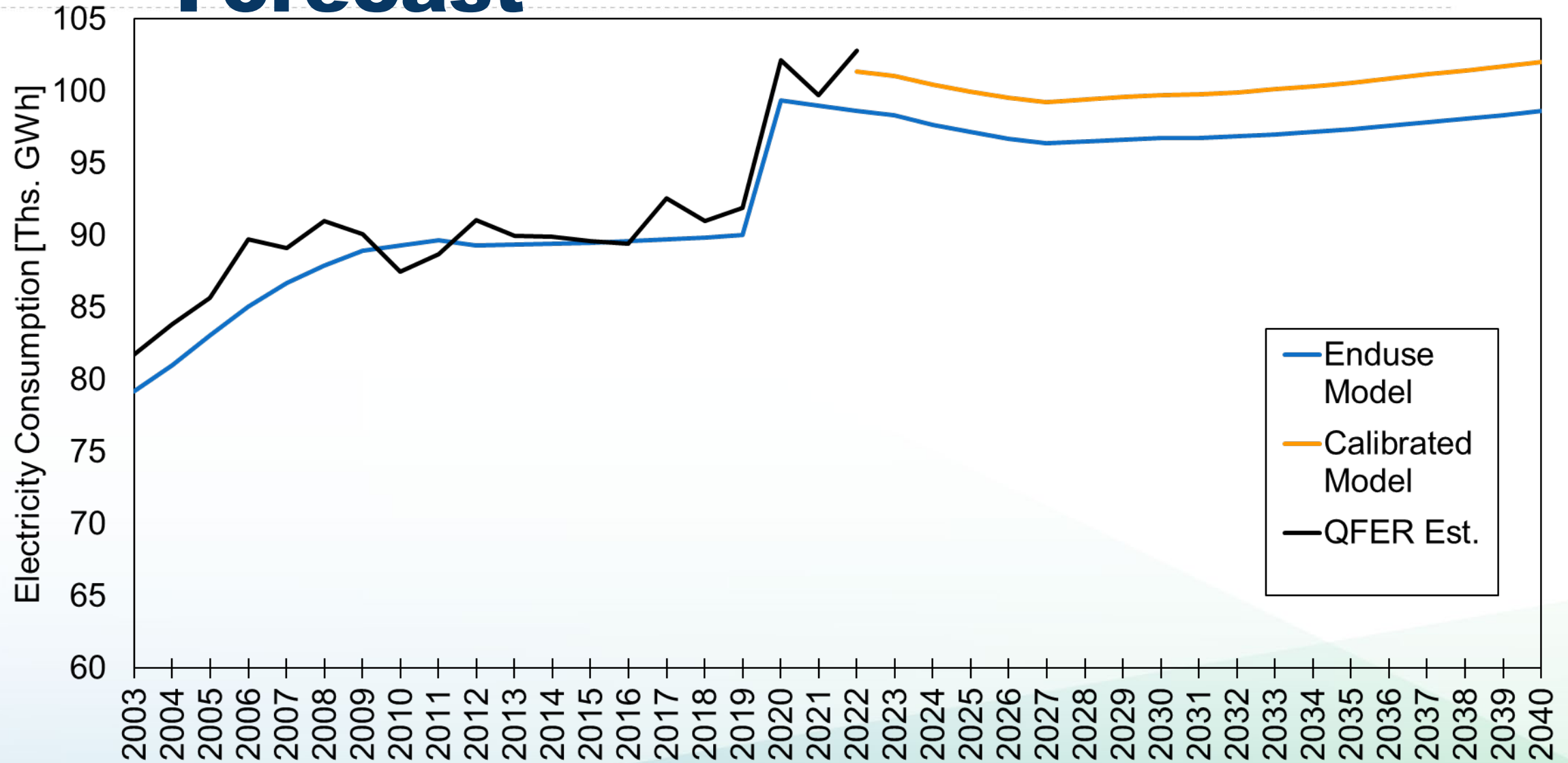
Presentation Overview

1. Statewide Electricity Consumption
    1. Total
    2. Share by Planning Area
2. Electricity Consumption by Housing Share
3. Q&A

Statewide Residential Baseline Electricity Consumption

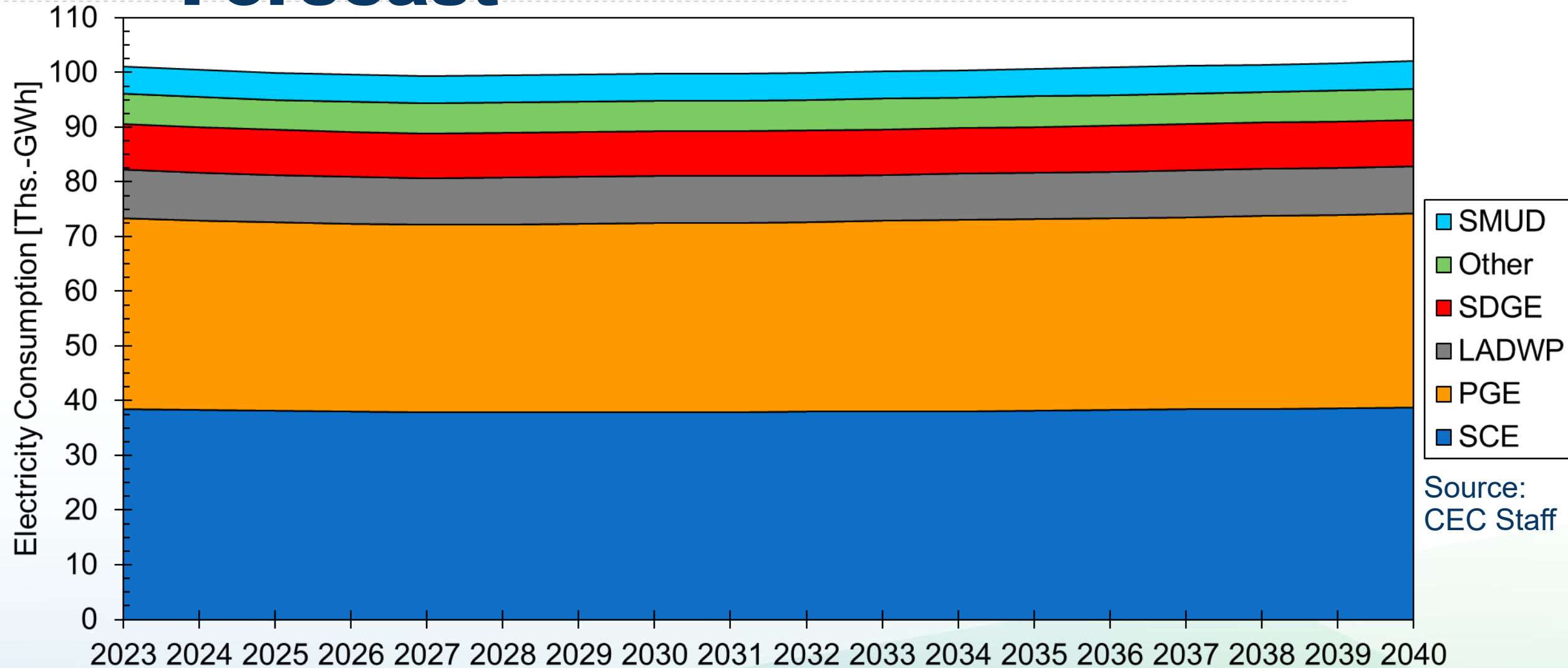# Baseline Residential Electricity Forecast

Residential Enduse Calibration

- Econometric results utilized to calibrate Residential Sector Enduse model results
    - Impacts of climate change
    - Provides continuity with historical usage (QFER)
    - Consistency with previous forecast methodology

- Two-step adjustment:
    1. Normalize <u>all</u> enduse results to econometric output with base year as a "climate normal"
    2. Distribute incremental climate change adjustment to set of 5 "climate sensitive" enduses

- Climate change adjustments are proportional to the change in conditioning degree days in each year, from the climate data base year
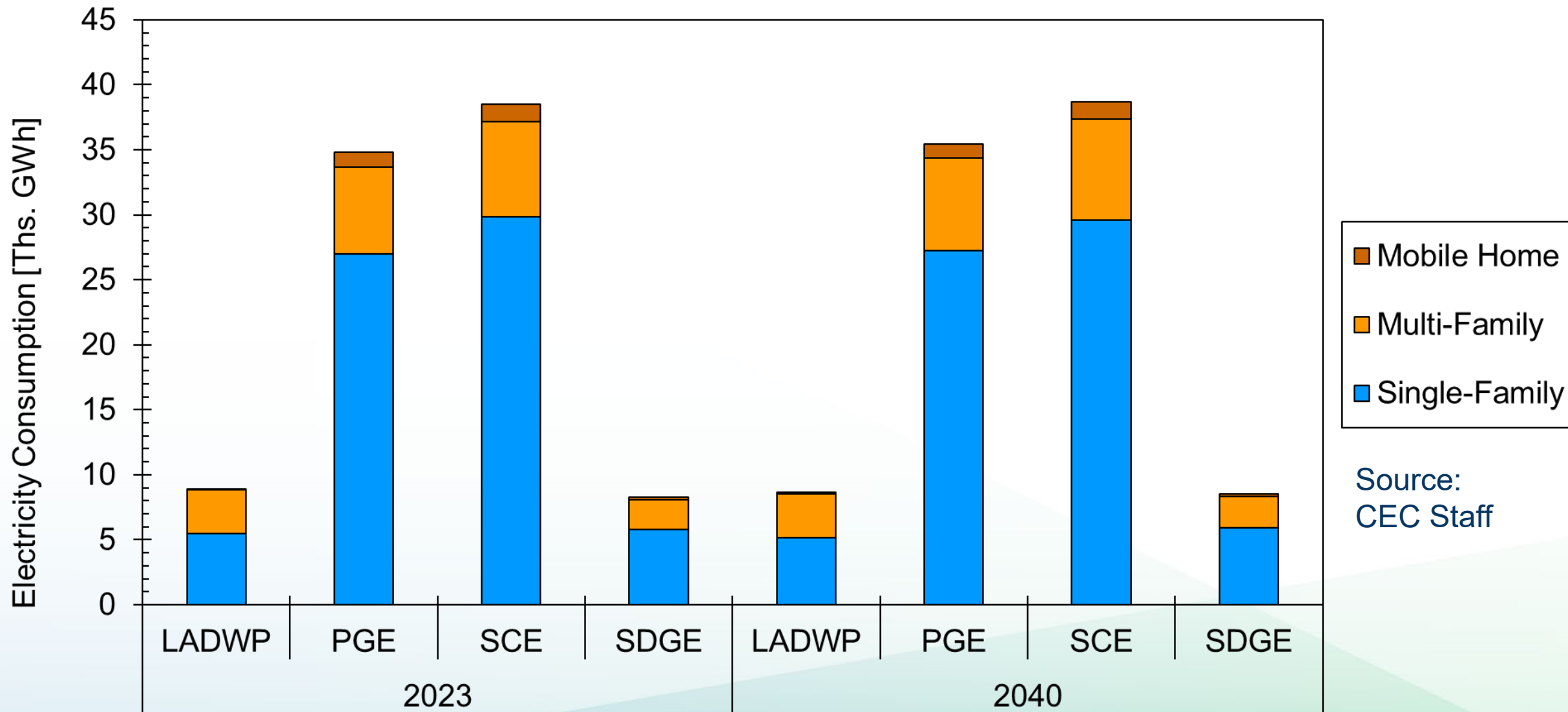
Baseline Residential Electricity Forecast

- "Other" Planning Area includes TID, BUGL, IID and rest of BANC service areas

Planning Area Baseline Residential Electricity Consumption – Housing Share

Consumption Share - Housing

Thank You!

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