



WATER & POWER

Serving Central California since 1887

MONTEREY PARK TRACT:

Electrifying Homes in an Underserved Population

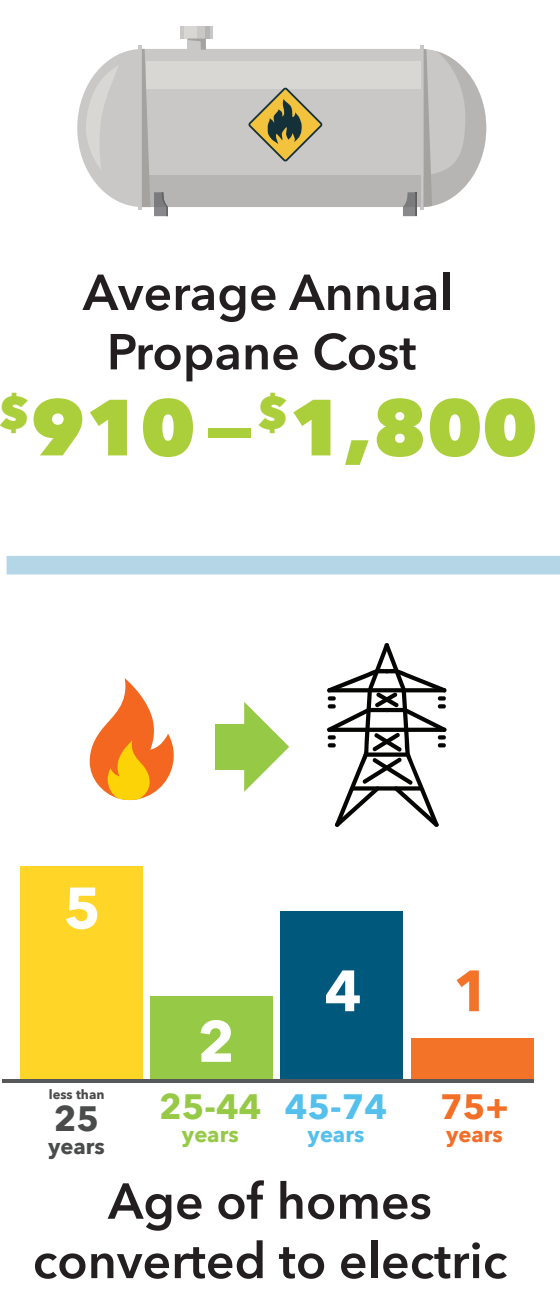
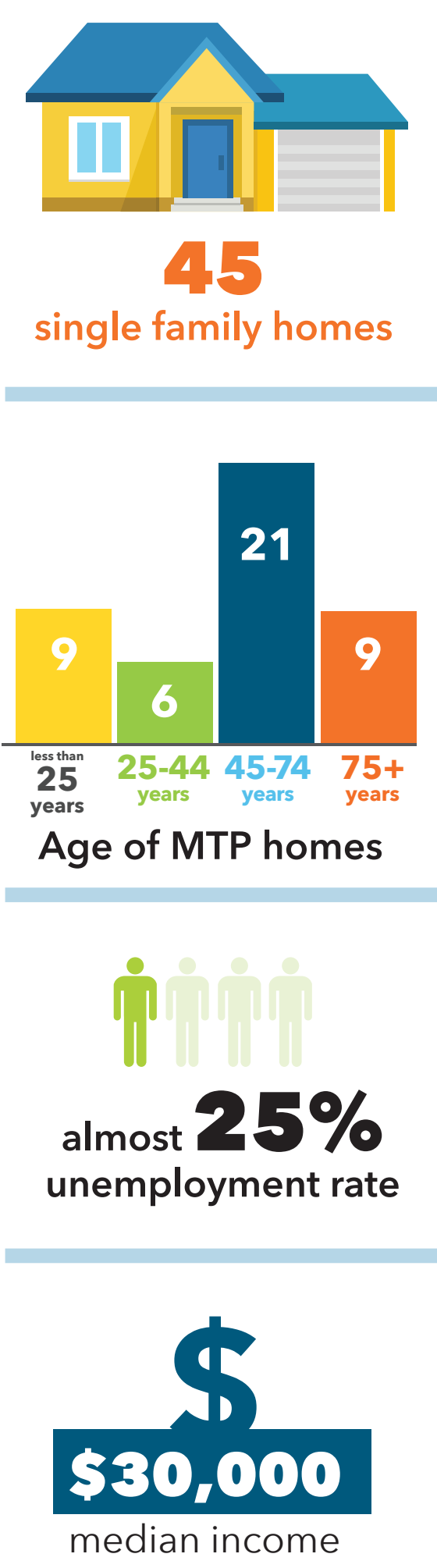
Lynna J. Jeffries, Turlock Irrigation District

BACKGROUND

- Governor Newsom visited MPT on his first days in office looking to improve water quality
- In addition to drinking water improvements, air quality was a concern as well
- Homes at MPT do not have natural gas and were either all-electric or using a combination of electric and propane as energy sources
- The CPUC looked to the gas utility PG&E to provide an alternative to propane
- Of the 45 homes, 16 were actively using propane in their homes
- The housing stock of the 16 homes ranges in age from 1930-2008, some modular and some traditionally built

DEMOGRAPHICS

- Monterey Park Tract (MPT) is a small community located in the San Joaquin Valley
- 45 single-family homes with approximately 133 residents
- Median income around \$30,000.00 with an almost 25% unemployment rate
- Designated disadvantaged community with poverty level higher than 67% of the tracts in California
- Historically underserved and served as the location of TID's first residential electrification RD&D project



PGE VS TID PROPOSALS

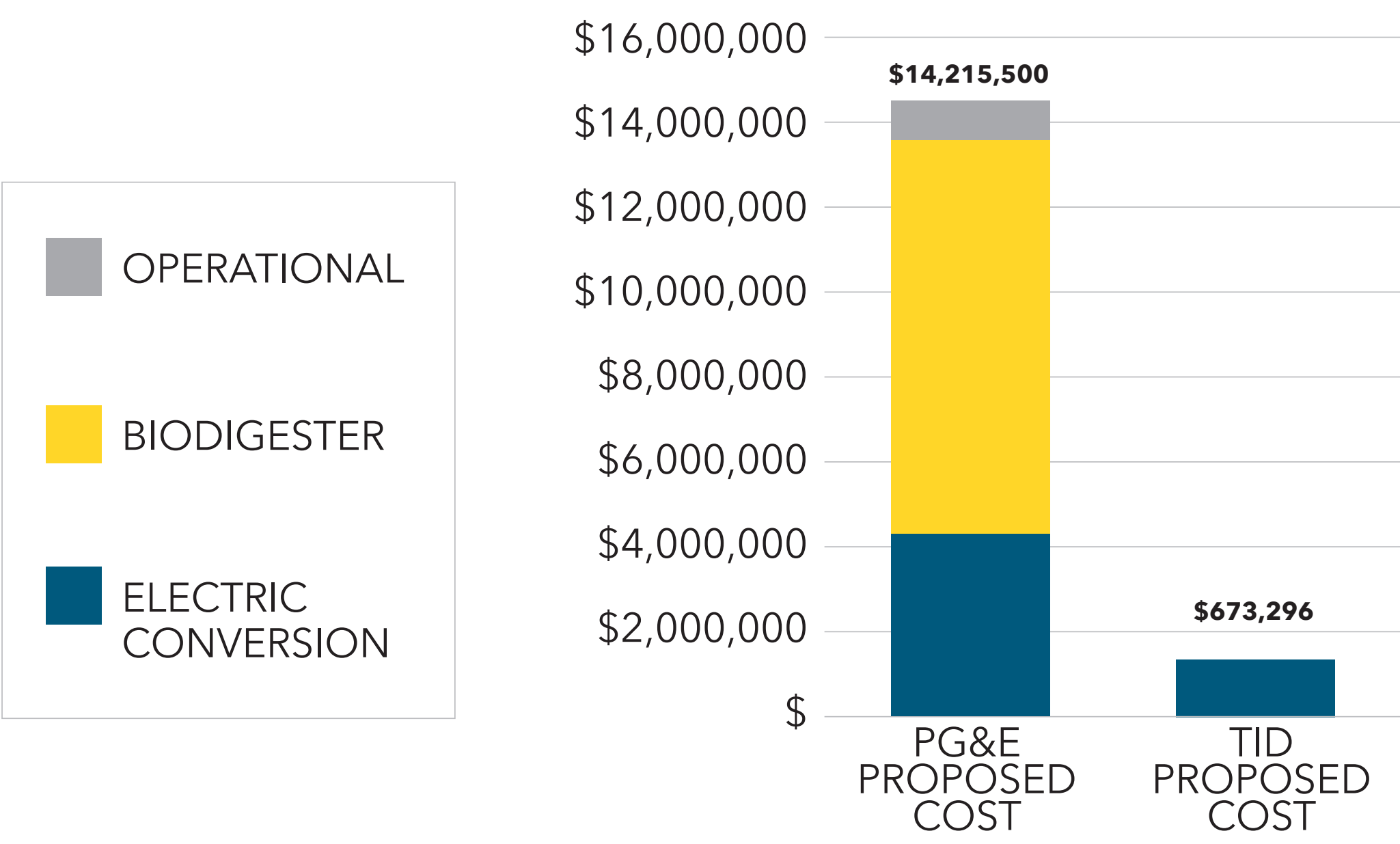
PG&E:

- Proposed a two phase plan to convert all 45 homes
- Phase 1: Build a microgrid for biogas and convert homes to All-Electric appliances
- Phase 2: Build a biodigester facility that converts local dairy methane to biogas to use as source of fuel for the microgrid
- Total Costs: 4 Million to convert 45 homes to all Electric, 9.7 Million to build the biodigester, \$515k/year to operate and maintain the biodigester, 30+ months to complete project
- All costs to be spread amongst PG&E rate payers Proposal was beyond consideration with the astronomical costs

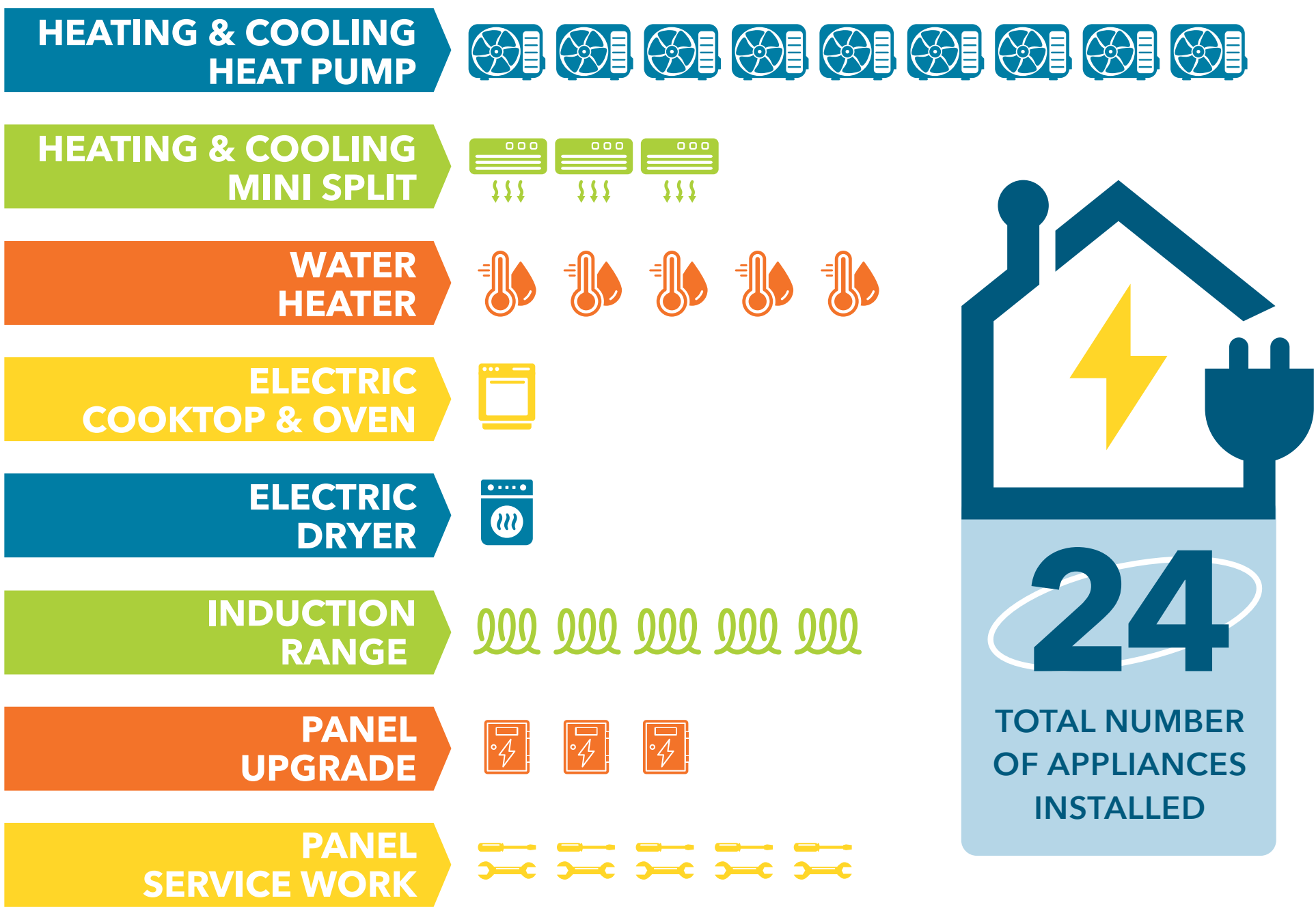
TID:

- The State called on TID as the electric provider to consider all options
- TID's proposal included the 16 homes that were still on propane - cap gas at each residence and convert homes to all-electric appliances.
- Total Costs: \$42,081/residence with an estimated project cost of \$673,296 - Less than 10% of the PG&E proposed costs
- Hire a third-party contractor to complete the project within 18-24 months
- TID paid for the project using research, development, and demonstration funds through Public Benefits

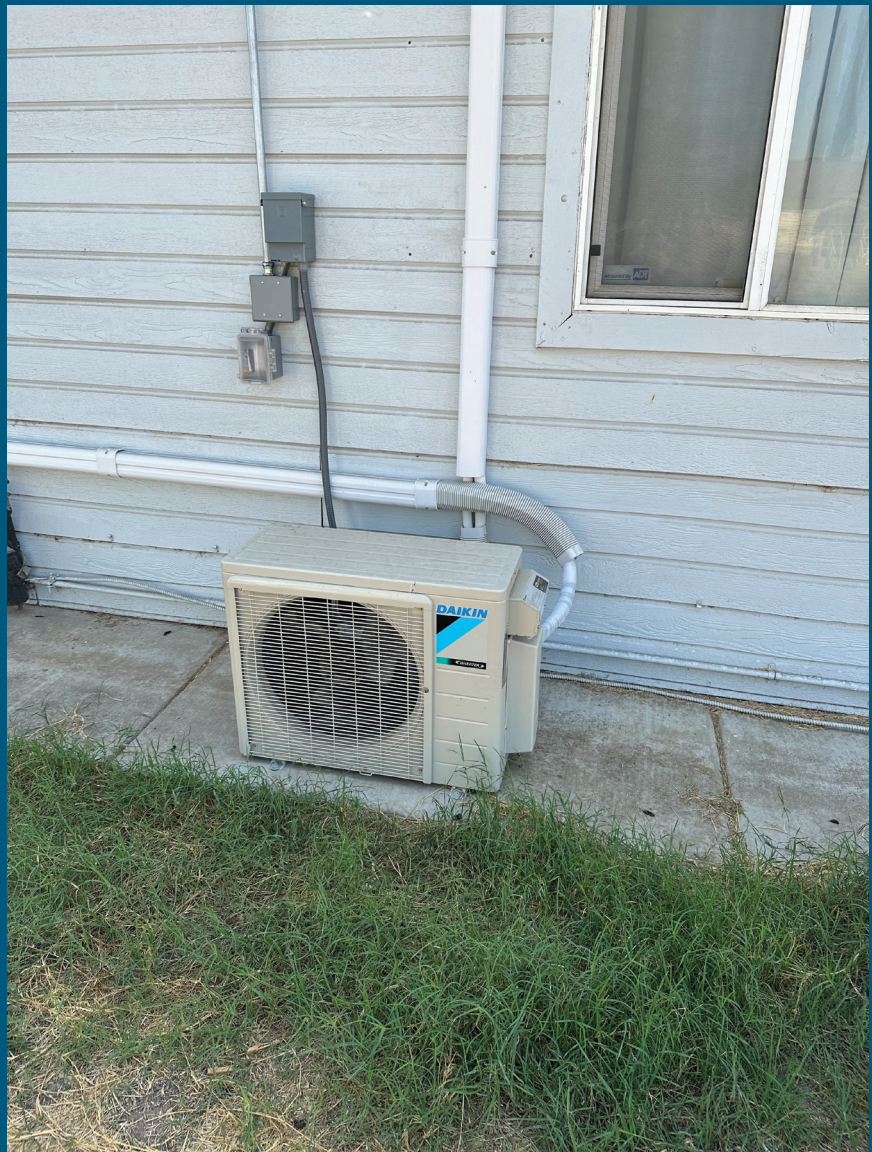
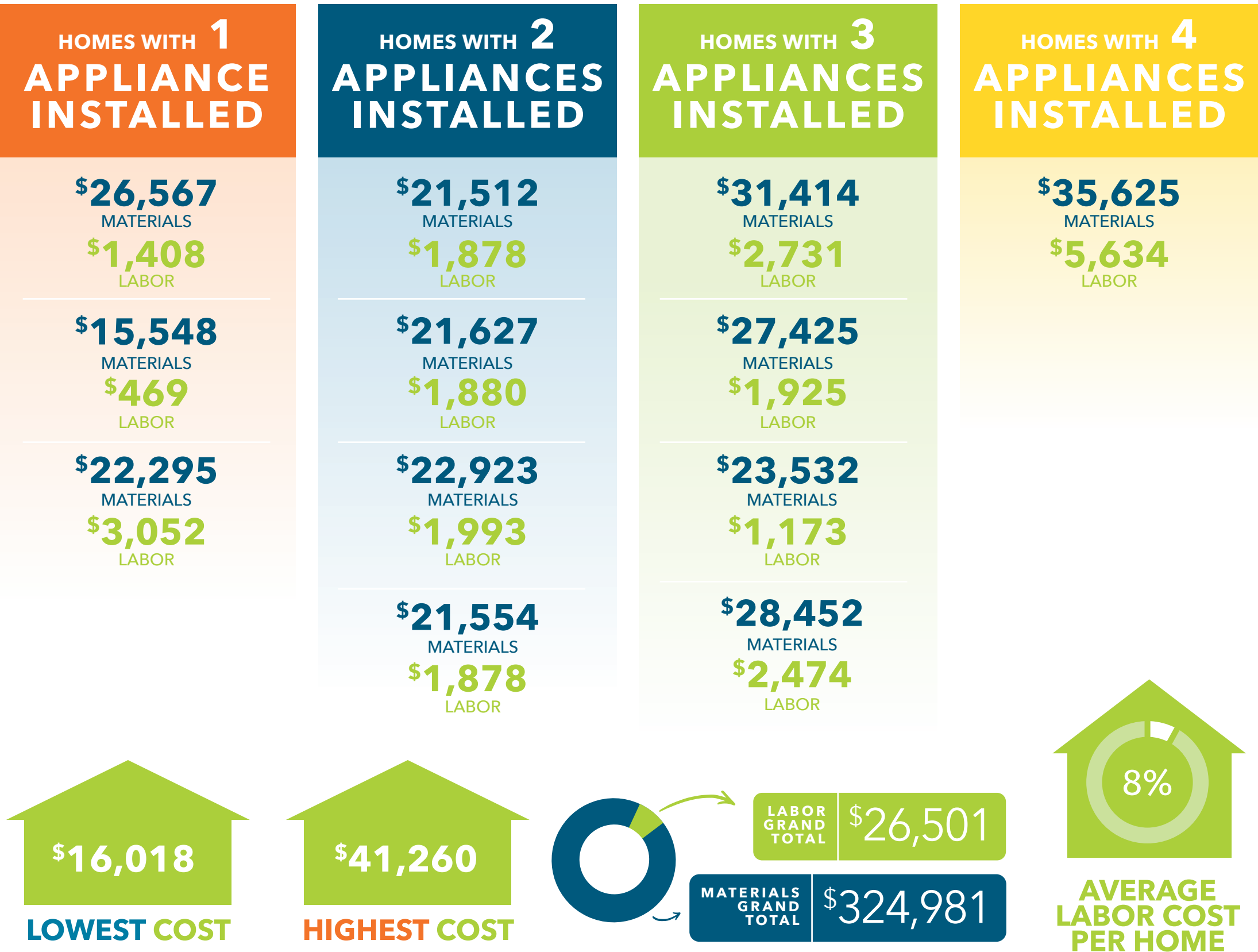
PGE VS TID PROPOSED COSTS



TOTAL NUMBER/TYPE OF APPLIANCES INSTALLED



LABOR VS. MATERIAL COSTS



DUCTLESS MINI SPLIT



HEAT PUMP EXTERNAL BLOWER



INDUCTION STOVE



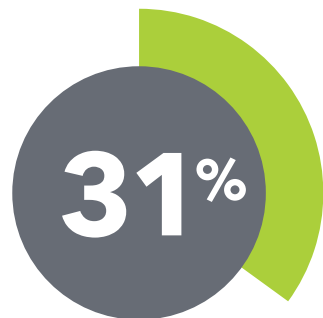
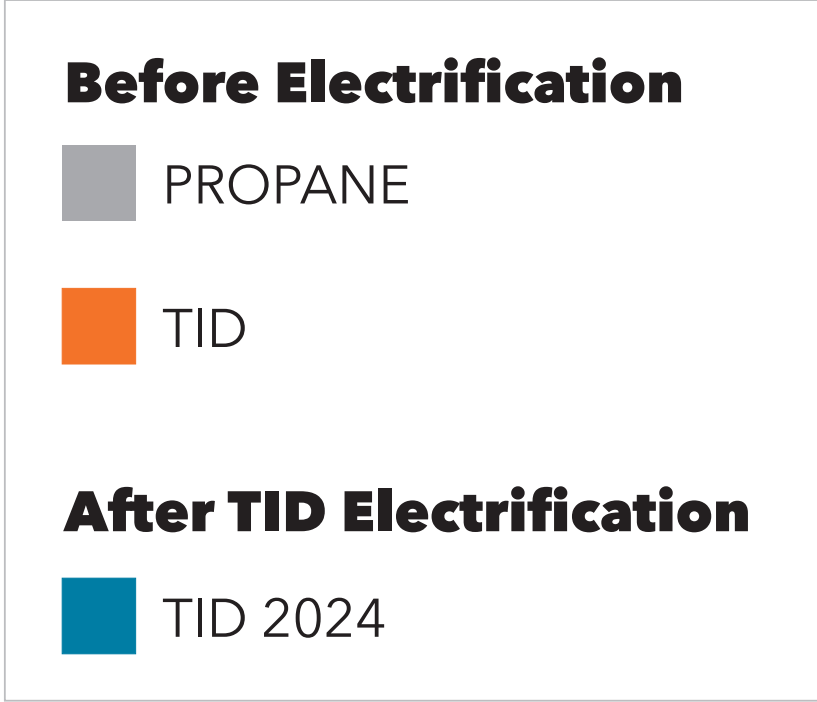
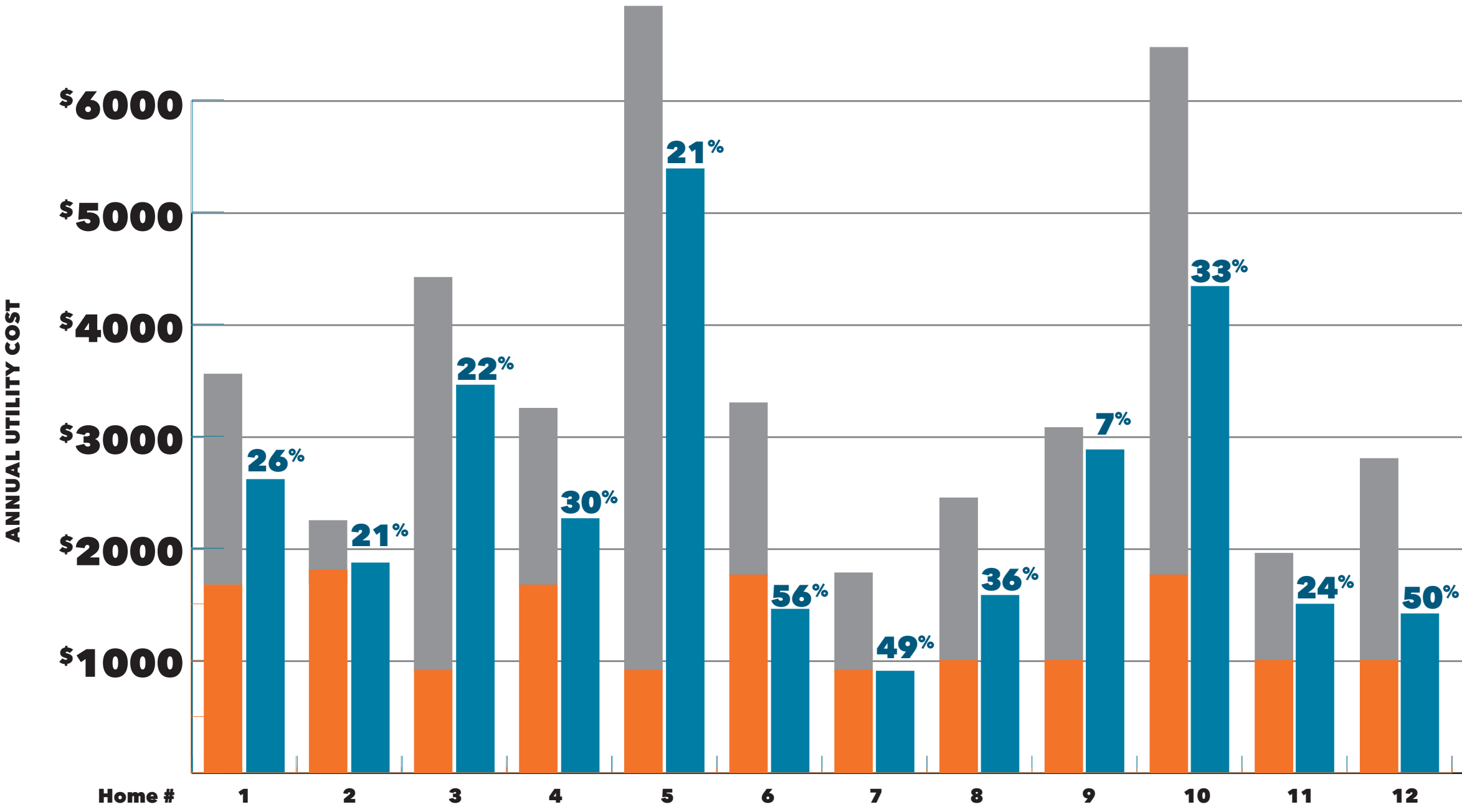
HEAT PUMP WATER HEATER



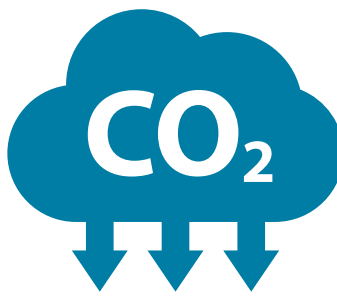
ROOF TOP UNIT

NEW APPLIANCES INSTALLED IN MONTEREY PARK TRACT HOMES.

ANNUAL SAVINGS PER HOME



AVERAGE COST REDUCTION OF UTILITY BILLS AFTER ELECTRIFICATION



25.9 METRIC TONS OF CO₂ REDUCTION

TID FINDINGS

- Expense per home varies greatly depending primarily on age
- Appliances are expensive and traditionally only replaced at burnout
- Learning curve for customers (comfortability)
- Customers are saving money on utility bills
- Indoor air quality improved
- Positively impacting a disadvantaged community in our territory



NEW G2E REBATES
WHEN YOU CONVERT FROM GAS TO ELECTRIC

\$4,000




G2E HEAT PUMP 15 SEER2 OR HIGHER
(FULLY SUBSCRIBED 3/21/25)

\$800



G2E INDUCTION STOVETOP

\$1,000



G2E ENERGY STAR® HEAT PUMP WATER HEATER