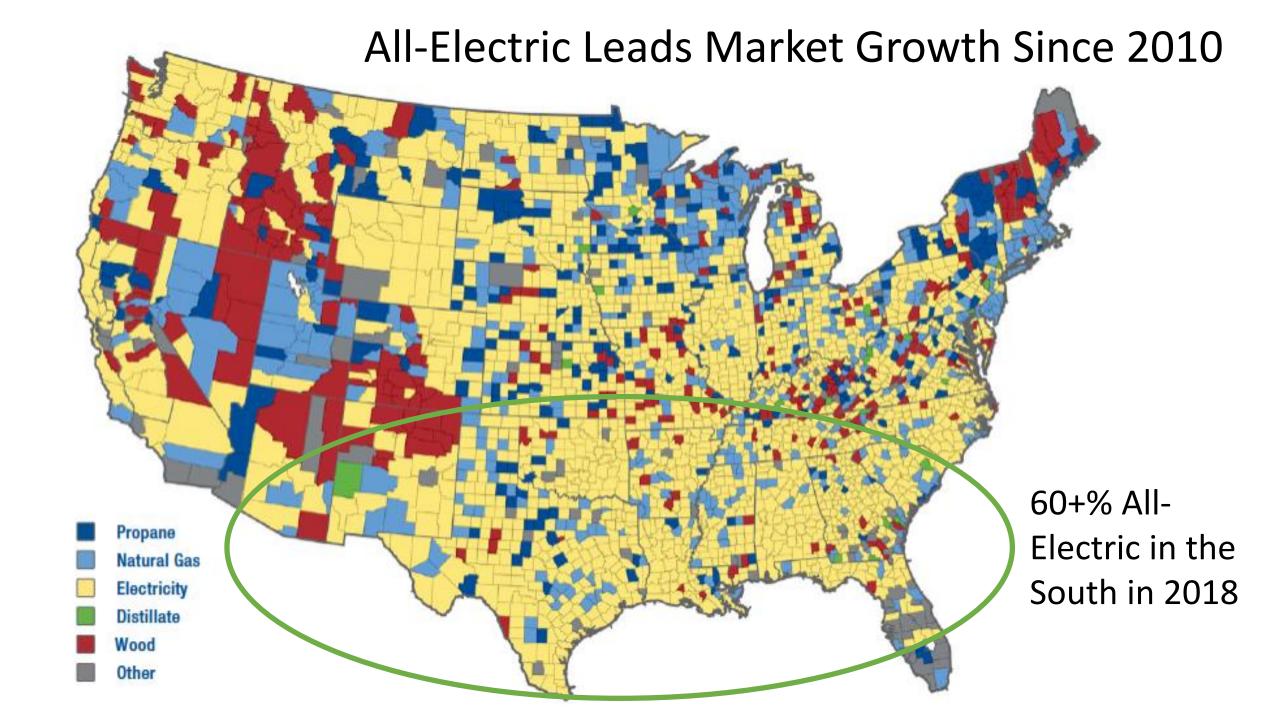
DOCKETED	
Docket Number:	19-IEPR-06
Project Title:	Energy Efficiency and Building Decarbonization
TN #:	227577
Document Title:	Electrification of California Households of Modest Means
Description:	Presentation by Sean Armstrong of Redwood Energy
Filer:	Raquel Kravitz
Organization:	Redwood Energy
Submitter Role:	Public
Submission Date:	4/9/2019 12:44:41 PM
Docketed Date:	4/9/2019

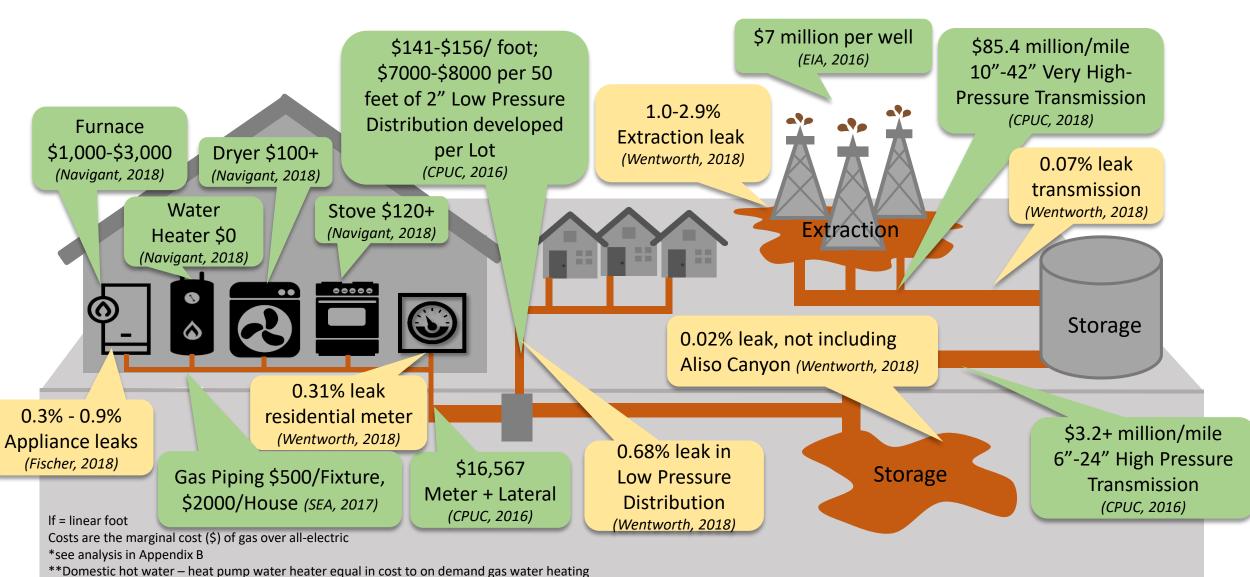
Electrification of California Households of Modest Means







Methane Delivery Costs More to Build at Every Step: \$25,000-\$30,000 per New California Home in PG&E Territory, Leaks at 2.5% to 5%



***Aliso Canyon leaked 4.62 Billion cubic feet and alone cost \$1.014 billion shared by 5.6 million meters - \$181/meter (Reuters, Aug 6, 2018)

U.S. Government

Federal law prohibits removal of this label before consumer purchase.

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Water Heater - ELECTRIC

Tank Size (Storage Capacity): 59 gallons Uniform Energy Factor: 3.7

Rheem Sales Company, Inc. Model XE65T10HD50U1 B 00150

Estimated Yearly Energy Cost

\$161

\$225 Cost Range of Similar Models

The estimated yearly energy Cost of this model was not available at the time the range was published.

First Hour Rating

(How much hot water you get in the first hour of use)

very small low medium

75 Gallons

Estimated Yearly Electricity Use

- Your cost will depend on your utility rates and use.
- Cost range based only on models fueled by electricity with a high first hour rating (75 gallons and over)



high

\$732

- Estimated energy cost is based on a national average electricity cost of 12.00 cents per kWh.
- Estimated yearly energy use: 1341 kWh

www.ftc.gov/energy.

Part No AX4258

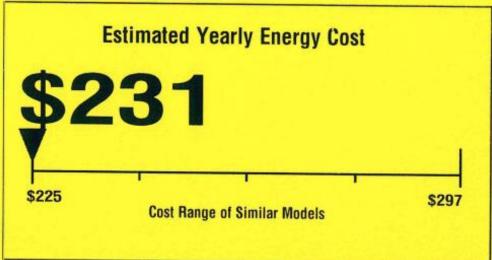


U.S. Government

Federal law prohibits removal of this label before consumer purchase

B 00007

ERGGU Rheem Sales Company, Inc. Water Heater - Natural Gas Modei ECORHESO Tank Size (Storage Capacity): 46 gallons



First Hour Rating

(How much hot water you get in the first hour of use)

very small low medium high 87 Gallons

Estimated Yearly Energy Use

- Your cost will depend on your utility rates and use.
- Cost range based only on models fueled by natural gas with a high first hour rating (75 gallons and over)
- **ENERGY STAR** Estimated energy cost is based on a national average natural gas cost of \$1.09 per therm.
- Estimated yearly energy use: 212 therms www.ftc.gov/energy.

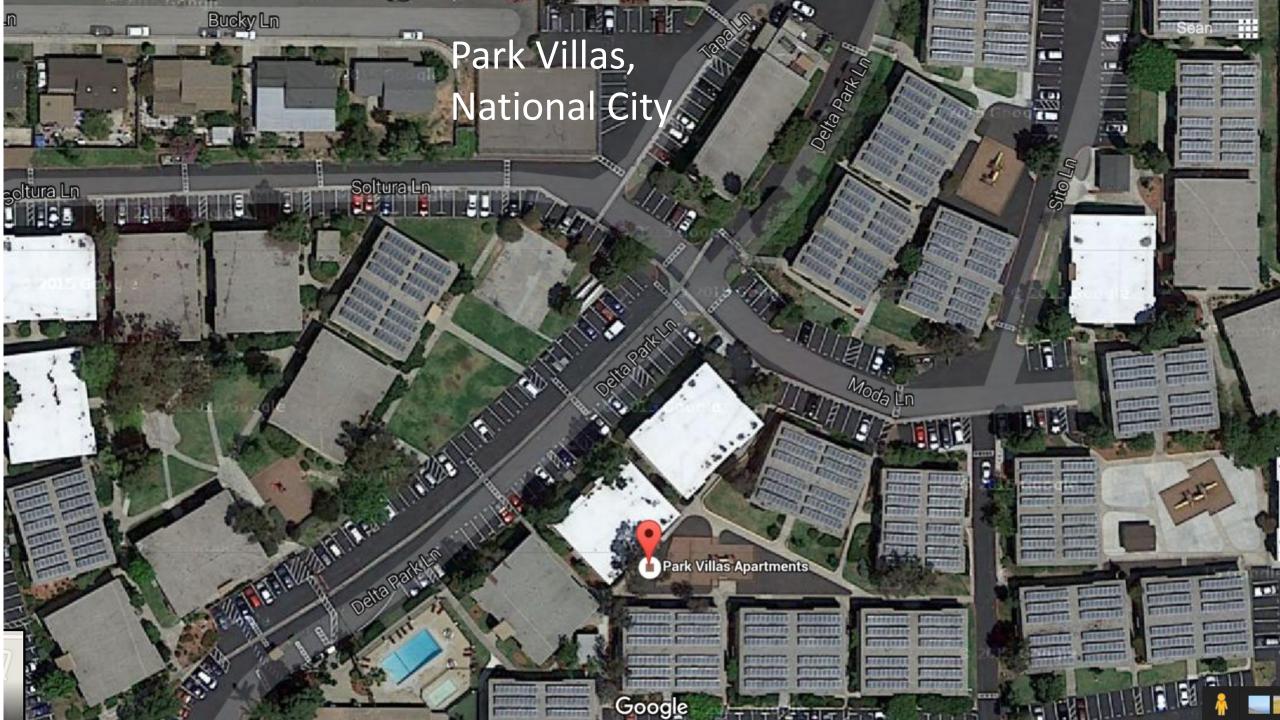
Part No. AX4258













Valley Glen Apartments, Dixon

Belle Manor, Lakeport

King Station, King City









Affordable, Quiet and Efficient Heat Pumps

\$3,000/Zone



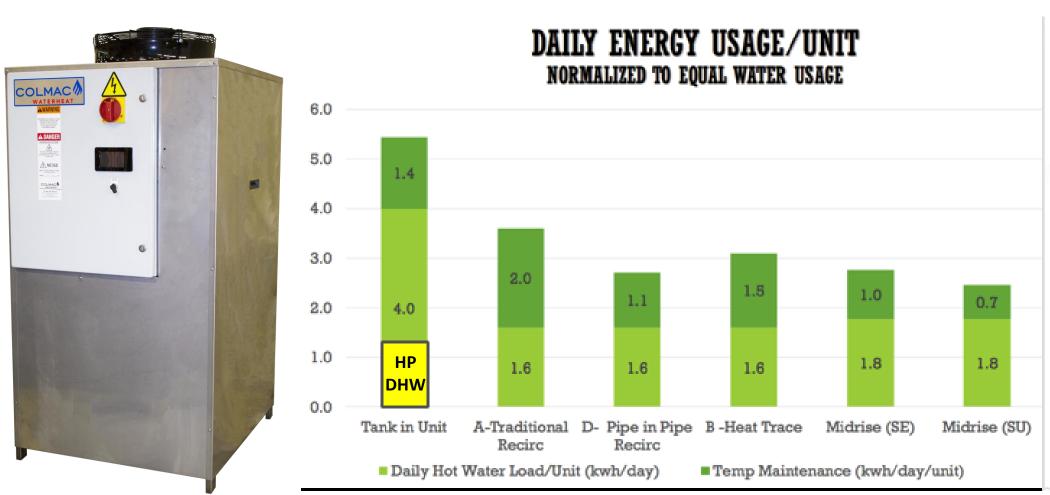
\$6,000/Zone



\$14,000/Zone



Large Energy Savings from Using Individual Tanks for Hot Water





Retrofit-Ready Heat Pump Water Heaters are 1 Year Away



Induction and Radiant Are Cost-Effective

