

Advanced All-Electric Residential New Construction

A typical 2,100 sq. ft. home saves:

1 ton of CO₂ per year.

\$1k in avoided cost for gas infrastructure.

Program Overview

Must meet code and receive no gas service.

\$3,000 for all-electric single family home.

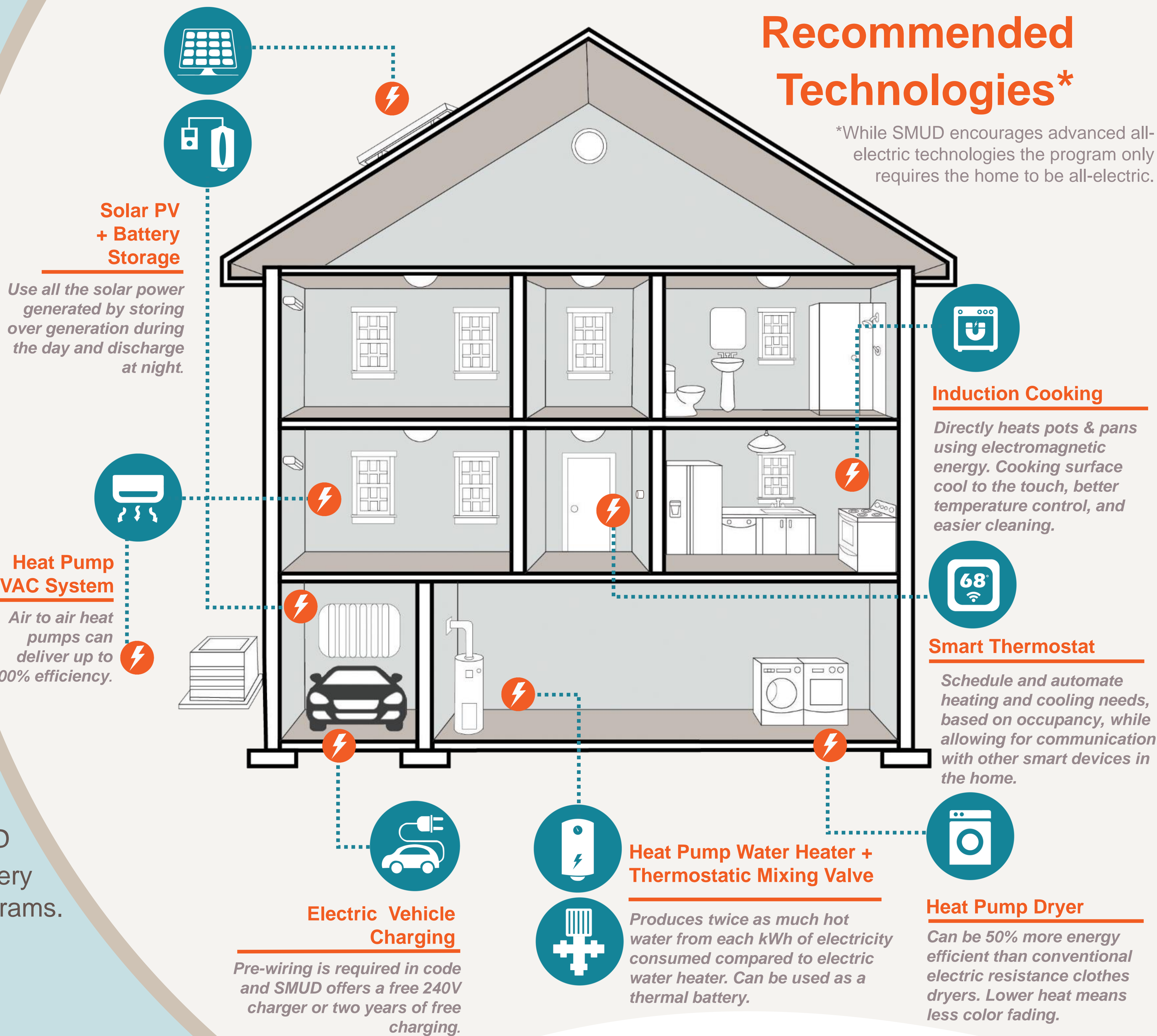
Bonus \$1,000 for induction cooking.

Bonus \$1,000 for homes completing construction in 2018.

Customers may also take advantage of available SMUD electric vehicle & battery storage programs.

Recommended Technologies*

*While SMUD encourages advanced all-electric technologies the program only requires the home to be all-electric.



Utility Benefits

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We were already considering the all-electric option, and with SMUD's assistance it became the obvious choice.

- Participating Builder

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All-Electric Home Comparison

	Electric & Gas Home	All-Electric Home
Electricity Consumption	4,530 kWh/yr	7,670 kWh/yr
Natural Gas Consumption	370 Therm/yr	0 Therm/yr
GHG Emissions (source)	6700 lb CO ₂ /yr	4100 lb CO ₂ /yr
Total 2016 kTDV ¹	80 kTDV/yr	71 kTDV/yr
Total 2016 Energy Bill	\$1,070/yr	\$1,040/yr

¹ Does not include lighting or miscellaneous plug loads. Based on energy modeling of a typical 2,100 sf single-story home. GHG emissions averaged over first 15 years. Individual energy use may vary based on individual lifestyle and behavior.

Multifamily Offering Also Available!



BONUS \$500
per unit for induction cooking.

\$750
per all electric multifamily unit.

BONUS \$250
per unit for construction completion in 2018.

Funding Mechanisms

40% Energy Efficiency

-gas savings converted to kWh*

20% New Sales

-more electric equipment on line

40% Retained Load

-EE savings are gas not electric

*Savings associated with the fuel substitution, SMUD is using the source energy carbon content method which is based on a carbon equivalence between the use of gas and electricity

Estimated Value of Electrification to the Utility

	New Construction	Retro-fit
Single Family (per lot)	~\$5,000	~\$10,000
Multifamily (per unit)	~\$1,500	~\$3,000
Single Family Lifetime Energy Savings* (per lot)	~70,000kWh	~145,000kWh
Multifamily Lifetime Energy Savings* (per unit)	~20,000kWh	~45,000kWh

Builder

- Simple Inspections**
Inspections takes less time, with no gas piping or flues.
- More Efficient**
Less penetrations in the envelope.
- No Meter Cost**
No additional cost for gas meter.
- No Gas Lines**
Cost for gas piping avoided.
- Flexible Design**
No restrictions on building design related to pipe or flues.
- Time Saving**
No time installing gas piping and flues.

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Home Owner

- Automated Home**
Automated homes save \$\$ on time of use rates.
- Zero Emissions**
Addition of solar and storage allows for a zero emissions home.
- Health & Safety**
No combustion in the home. (reduced CO exposure)
- Innovative**
Own the next generation of homes.
- Convenience**
Induction cooking is state of the art, the cooking surface is cool to the touch and easily cleaned.
- Prepared Demand Response**
Home is prepared for future residential DR programs.