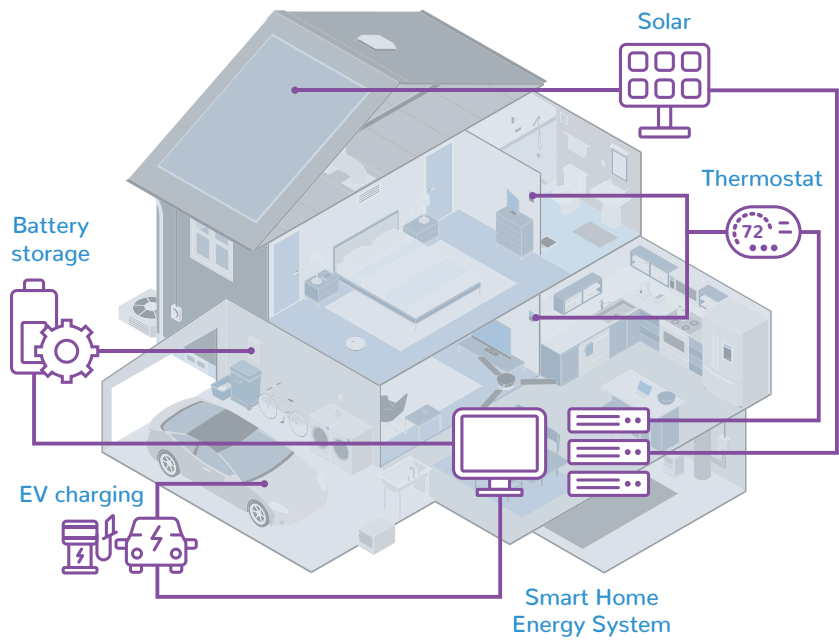


MANAGE ENERGY USAGE AND LOWER YOUR UTILITY BILL



How to maximize time-of-use rate benefits with a Smart Home Energy System



What is a Smart Home Energy System?

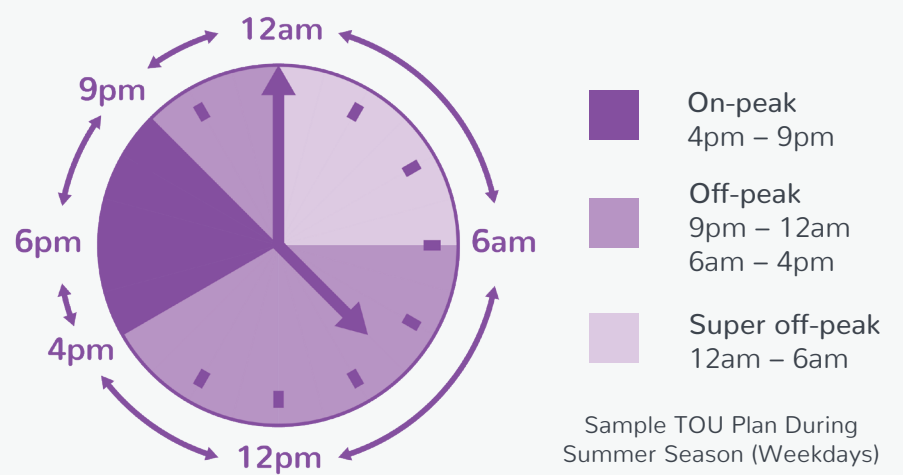
- A Smart Home Energy System optimizes customer net load and electricity costs based on time-of-use rates.
- As a web-connected hub, it monitors solar and load, communicates with the cloud, and controls end-devices.
- Its algorithms respond to price signals to optimize energy consumption and reduce costs.

Time-of-Use Rates Help the Environment and Your Pocketbook

Time-of-use rate plans are based not only on how much energy you use, but when you use it. By shifting some energy use to lower-cost time periods, customers can save on their utility bills and help reduce GHG emissions, keeping California cleaner and healthier.

When combined with flexible and programmable technology customers can amplify their monthly savings and reduce their carbon footprint.

Energy prices are broken out into different time periods.



Benefits of Time-of-Use pricing aligned with a Smart Home Energy System

A Smart Home Energy System intelligently distributes the energy usage for your electric car charging station, home energy storage battery, and other appliances on-site, ensuring the most optimized operation based on the available power capacity and time-of-use rate structures, decreasing CO2 output and saving you \$\$.

Customer costs are significantly reduced by optimized operations of EV charging when paired with time-of-use pricing plans.



	Sample Time-of-Use Rates (\$/kWh)*	
On-peak	\$0.52	1 coin icon
Off-peak	\$0.28	2 coin icons
Super off-peak	\$0.09	3 coin icons

*Sample rates for customers on SDG&E TOU-5 Plan (Summer Season)

Maximize savings with EV Charging and Home Energy Storage



Reduce Cost Impact of Longer Commutes
EV owners with daily commutes >30 miles can save over \$700¹



Leverage Your Energy Storage
Households with 8kWh of home energy storage can save an additional \$400²



Choose a Time-of-Use Plan
Select a plan that fits your household usage and budget

Smart Home Energy Systems provide benefits to customers and the grid

Increased economic benefit

Customer

Increased safety

Lower energy emissions

Grid

Reduced cost

Greater reliability

¹Annual savings is compared to households that have a smart charger vs. those that charge during the evening peak price.

²Annual savings is compared to households that use home energy storage to charge during off-peak periods and discharge during on-peak periods vs. households that do not use home energy storage.

To learn more about Smart Home Energy Systems visit www.smartgrid.gov/the_smart_grid