



Turning Your Water Heater into a SMART Water Heater

Your Questions Answered



Q: How Does a Water Heater Help Reduce Electric Consumption on the Grid?

The water heater is a home's second largest energy-consuming appliance, next to the air conditioner. By reducing the amount of energy water heaters consume during peak usage periods, more energy is available, and there is less strain on the grid.

Q: What Does Armada Power Do?

Armada Power turns electric water heaters into smart appliances using our patented enterprise software and a WiFi/cellular-connected optimization device, giving you real-time data, user controls, and the ability to participate in utility sponsored programs. This process remains non-invasive and discreet.

Q: Why is this Important?

By transforming a water heater into a smart device, we can manage groups of them as a large fleet. These fleets can then be used to add stability to the electric power grid, contributing to sustainable energy management and providing economic benefits. Armada Power's solution accomplishes this while maintaining the temperature of the water in the tank. Plus, the data derived from the smart water heater provides significant maintenance and operations value to you.

Q: How Does the Armada Power Device Work?

Armada Power's connected device and user-friendly mobile app transform your water heater into a smart appliance. With this secure technology you can reduce your energy usage and save money without changing your hot water availability. The Armada Power hardware and software solution also transform electric water heaters into energy storage for the electric power grid. In this capacity, they alleviate excess energy demand and grid strain, mitigating the risk of future blackouts and brownouts through participation in demand response and other utility programs.

Q: What is a Demand Response Event?

A demand response event is a designated period (usually about two hours in duration) where the utility needs to reduce electric consumption. The utility asks its customers to be mindful of their energy consumption during this time frame. If you are enrolled in a utility program, the water heater will automatically turn off during a demand response event and then turn back on once the event has concluded.

Q: How Often are Demand Response Events Called?

Generally, the parameters for demand response events are two hours in duration once per day and a maximum of twice per week. Demand response events are typically called when the electric grid is under strain from extreme weather conditions.

Q: Will this Affect My Access to Hot Water?

No. Armada Power's smart solution uses the water heater tank's natural thermal storage capacity to ensure hot water availability. We constantly monitor tank temperatures, and the water heater optimization device does not affect the existing mechanical thermostats that regulate the tank's normal operation.

Q: Will this Increase My Energy Bills?

No. The energy consumed by the water heater remains the same. Armada Power's unique solution shifts energy to benefit the power grid but does not increase consumption.

Q: Will this Negatively Affect the Water Heater's Warranty or Safety Features?

No. The Armada Power hardware device is wired into the power line that supplies the tank. All thermostats, over-temperature protection devices, and pressure relief valves remain untouched by the installation process. Armada Power does not negatively affect the water heater's integrity, warranty, or UL certification.



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