How Wiser Energy[™] makes the loadcentre smart.

The smart technology behind Wiser Energy.

How Wiser Energy works

Wiser Energy lets homeowners monitor the electrical usage of appliances and electronic devices by simply connecting two current sensors to the main incoming lines in the electrical panel.



Each electronic device and appliance in a home has its own unique energy signature or voice. Using machine learning technology, Wiser Energy identifies each unique electrical signature, and uses this data to further learn these signatures and provide insights about energy consumption and behavior to homeowners.



Wiser Energy continuously and smartly learns new signatures and updates its database regularly to accelerate **new** device identification.

Connects to smart speakers



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How the technology works



points per



Computer Lighting Charge

Once the algorithm is identified as an individual device, a model is created to track this device and provide information about its energy usage.

This model is sent back to the Wiser Energy monitor so that the device is monitoring this information locally, while the servers continue with the analysis.

Crowdsourcing enables homeowners to constantly add their inputs to the device detection capabilities, accelerating the device detection process to track this device and provide information about its energy usage.

Schneider Gelectric

Life Is On

Wiser Energy Wiser Energy samples data at continuously 1MHz and around 4 million data second to build a detailed library of device signatures

samples the current and voltage at 1 million times/second. It uses this information to detect changes in magnitude, frequency, and phases.

Information is processed in the cloud. Machine learning algorithms analyze this information and look for devices in home electrical signals.

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