

**DOCKETED**

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Powering a Smarter World

# BRINGING TOGETHER THE ENERGY ECOSYSTEM

A more sustainable energy ecosystem begins with decarbonization, digitalization, and decentralization, but no one product or solution can achieve all three. Multiple pillars of Generac's energy ecosystem play a part in creating a better optimized, more resilient future. At Generac, we are leveraging our decades of expertise and wide array of energy offerings, from residential products to industrial gensets and beyond, to help address today's vexing energy issues.

## Generac Power Systems

### Residential Power Generation

Generac's home standby generators provide scalable backup power that has withstood the test of time. Our Smart Grid Ready technology enables customers to participate in grid resiliency efforts that help to keep communities powered up.



### Residential Battery Storage

By storing energy for later use when utility rates spike or when there's a grid outage, Generac's PWRcell battery storage systems and emission-free Portable Power Stations help customers increase their energy independence and find peace of mind during outages.



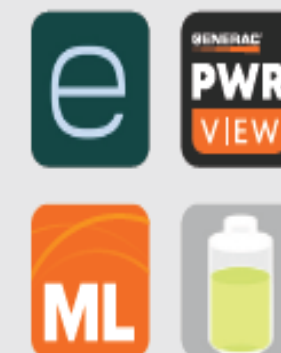
### C&I Power Generation and Storage

Our commercial-, industrial-, and mobile solutions bring power at scale. We've made additional investments in industrial connectivity and initiated new partnerships – such as the market entrance and development of stationary and mobile battery energy storage and the distribution of EODev's hydrogen fuel cell generators – to further pave the way for cleaner, more efficient industrial energy technologies.



### Monitoring & Management Devices | Platform & Controls

Connected devices and distributed energy resources (DERs) make it possible to be more intentional about energy usage. With a variety of devices including our smart thermostats, energy monitors, and load management controllers, combined with integrated platforms and control systems, energy usage is optimized to fit the needs of homes and businesses, all without impacting comfort or ease-of-use. Our ultimate vision is to make it easy for the end user by eventually putting it all together on one platform and under a single pane of glass.



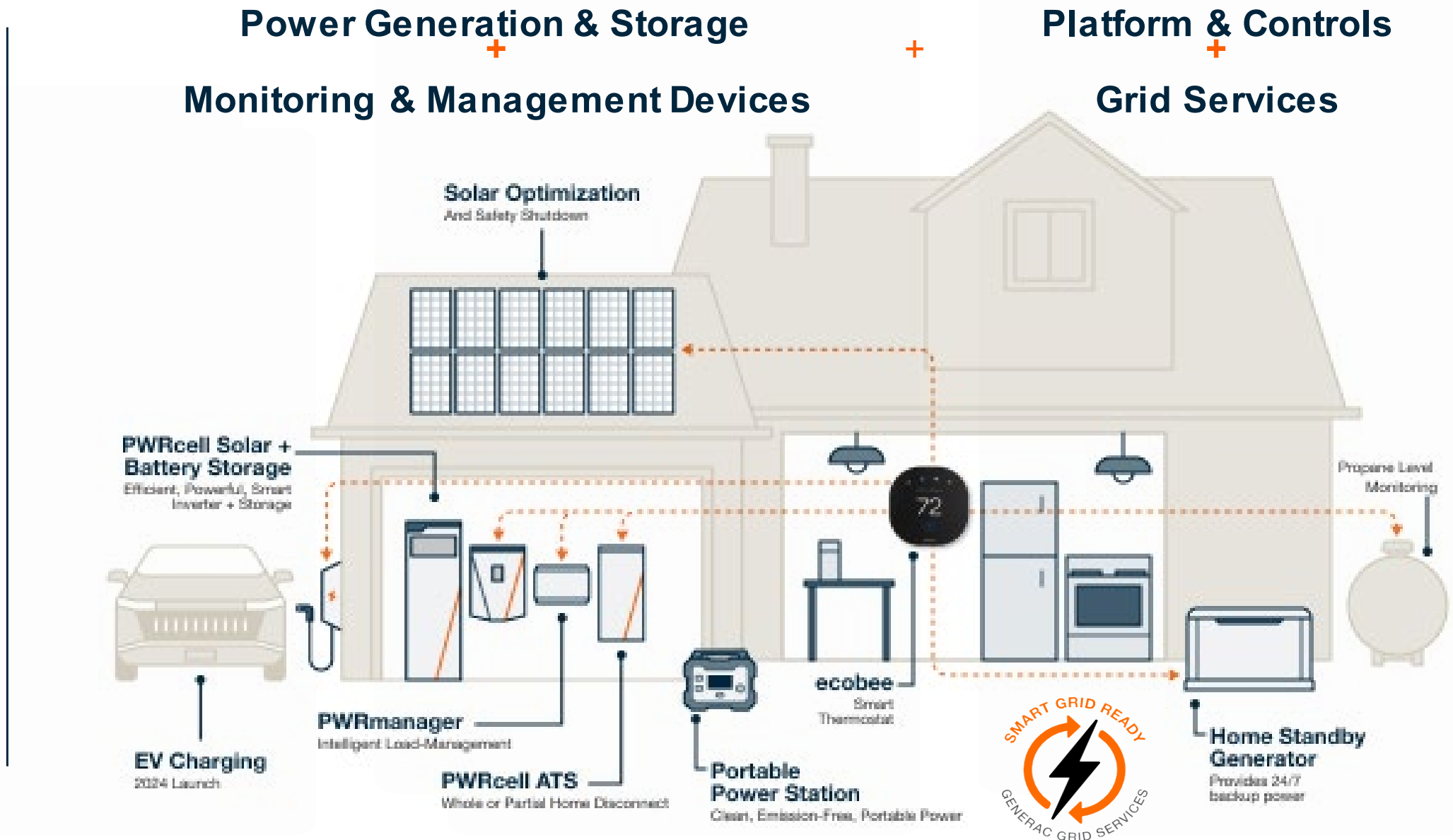
### Generac Grid Services

Generac's Concerto™ Distributed Energy Resource Management System (DERMS) helps to support a balanced grid. Using Concerto™, utilities, grid operators, and other energy companies can – when granted permission – autonomously control distributed energy resources (DERs) and gensets. The flexibility and versatility of the Concerto™ platform has led to documented contributions to grid resiliency in times of need.

# Committed to Delivering the Home Energy Solution of the Future

Only company to combine home standby generators, HVAC control, solar, storage, load management, and EV charging orchestrated for the optimal home experience and grid interaction

- 1 Energy Resiliency and comfort
- 2 Managing variability and schedule
- 3 Optimization for cost and carbon footprint





# Building a residential energy ecosystem

Power Generation & Storage

+

Monitoring & Management Devices

+

Platform Controls

+

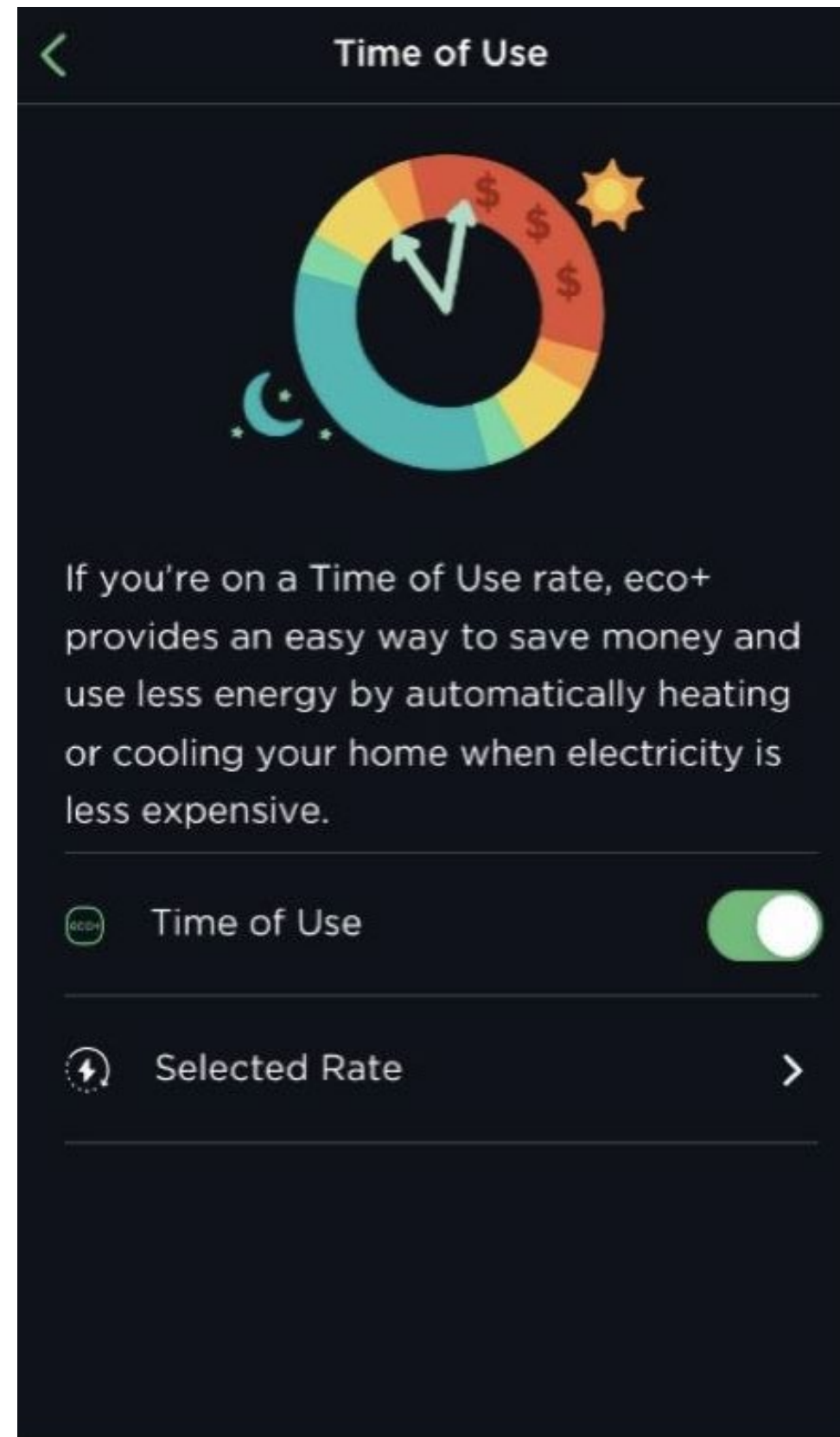
Grid Services



## HOME

Multiple hardware devices **connected to a single interface** to optimize the consumption and generation of energy within a home.

# The customer experience



- Frictionless enrollment
- Managed energy use with a single touchpoint
- Comfortable home

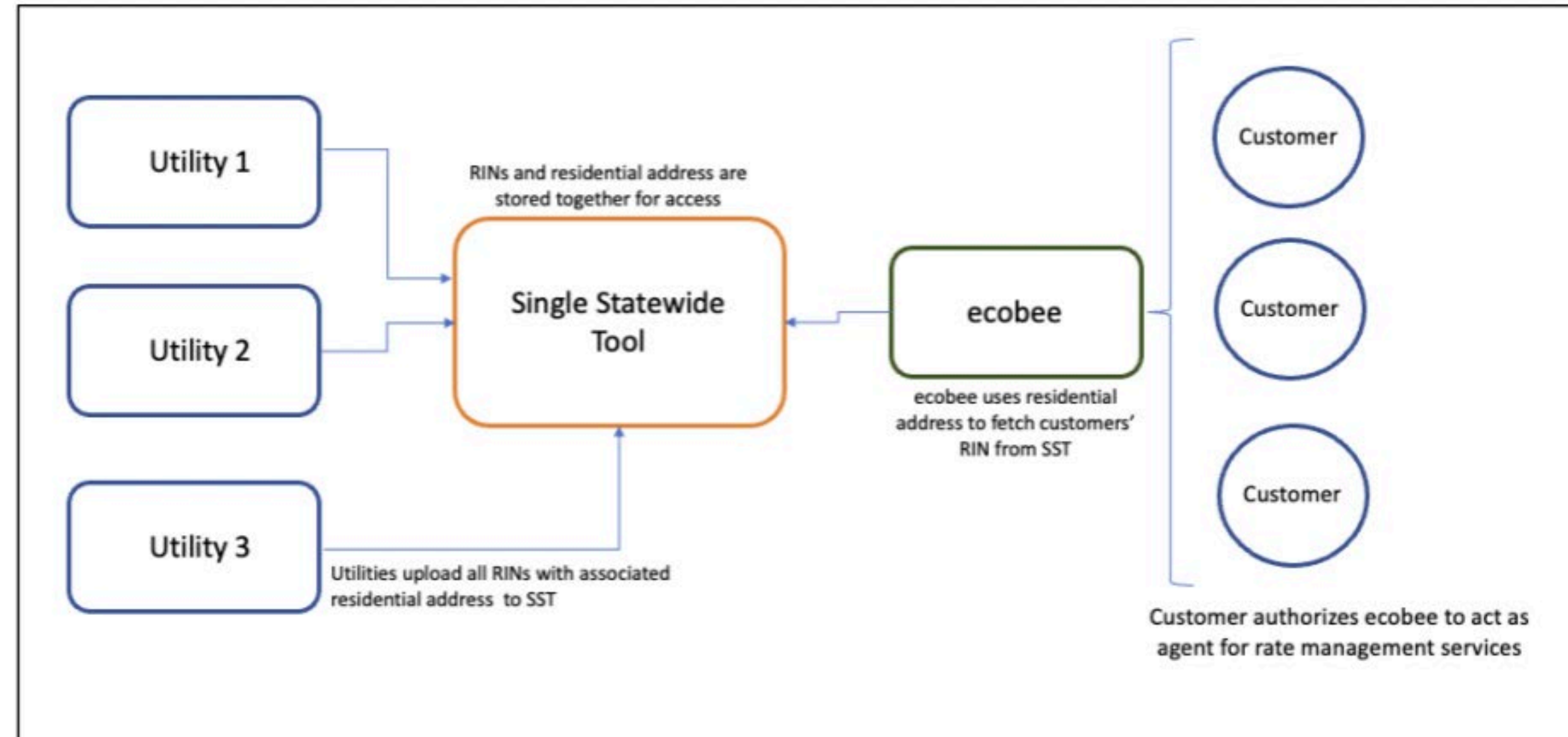
## ecobee behind the scenes

- After customer opts in, ecobee will be responsible for tracking all rate updates and automatically recalibrating to optimize behind the meter home energy management based on new updated dynamic rate.
- ecobee will regularly and automatically access MIDAS for rate updates and apply those updates on behalf of customers, avoiding customers discovering inaccurate tariffs and bill surprises



# ecobee behind the scenes

Example: Flow diagram of ecobee and utilities interacting with the SST





## Data needs

Statewide clearinghouse for RINs where the RIN is matched to premise address. This will facilitate seamless, frictionless enrollment and enable third parties to act as agents for customers to identify their RIN for them automatically. Vendors can keep records of timestamps when customers requested automated rate management that could be available upon request/audit.

## Data needs

The time-dependent rate applicable to the smart thermostat customer must be available in MIDAS from the LSE/utilities.

## Data needs

Utilities format of rate uploaded to MIDAS must be standardized and consistent, and continuously maintained for accuracy.

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