
SMART ENERGY API STANDARD

The Smart Energy API Standard (SEAS) is an open source, highly flexible data standard designed for demand response and smart grid flexibility solutions.



ASEMA

<http://www.smart-api.io/seas>

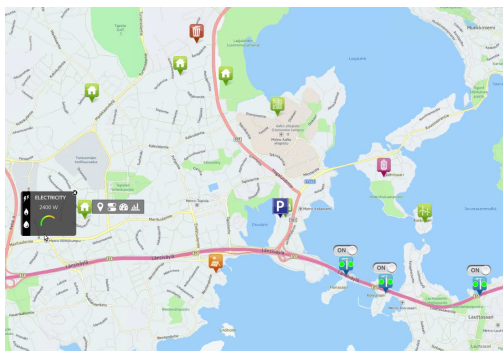
THE SMART ENERGY API STANDARD IS

A data definition for software engineering on how energy systems should communicate.

An open source software development toolkit (SDK) to easily engineer compatible energy systems.

A free design reference for manufacturers that guides in how to design compatible IT systems.

A set of services that enable system discovery in high volume, high speed, and with low overhead.

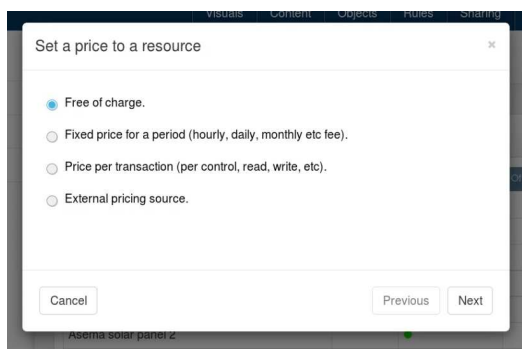
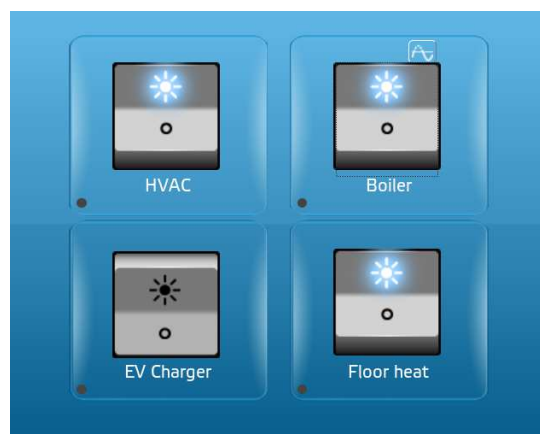


MANAGE FLEETS

SEAS contains the software and specifications for plugging into a heterogeneous set of devices in the field with one unified view to the data. It defines identifiers that allow pointing at each device unambiguously and data specifications that let systems do unit conversions and the interpretation of data automatically.

AUTOMATE AND REACT

SEAS was designed for control applications and contains a vast set of methods to send not only direct commands but also abstract targets to controllable loads, energy production, and energy storage. Data can be fetched per request as secured timeseries or subscribed to to receive real-time updates in the form of a secure notification stream.



INCENTIVIZE AND AUDIT

SEAS includes an extensive set of features and software for commercializing data. It supports signing, end-to-end encrypting, and notarizing data. These serve as a legal guarantee for payments and contract compliance for demand response actions and data delivery.