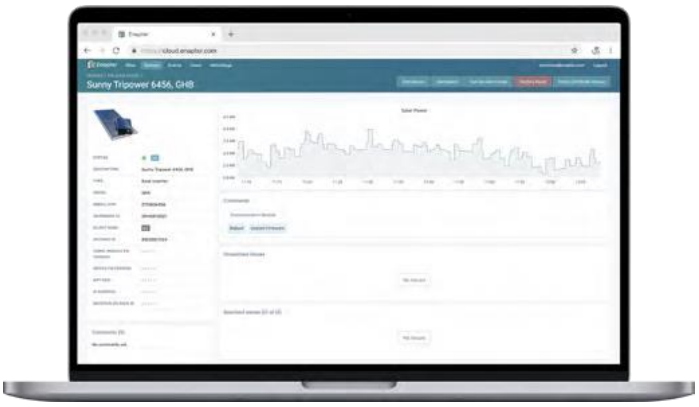
Energy Management System (EMS)

Powered by Enapter



Energy Management System: Enapter's unique Energy Management System (EMS) allows for intuitive monitoring and control of the electrolysers and dryers, as well as easy integration with third-party devices (ie. fuel cells, sensors, tanks, solar, wind, etc.). The EMS takes energy system control software to a whole new level.

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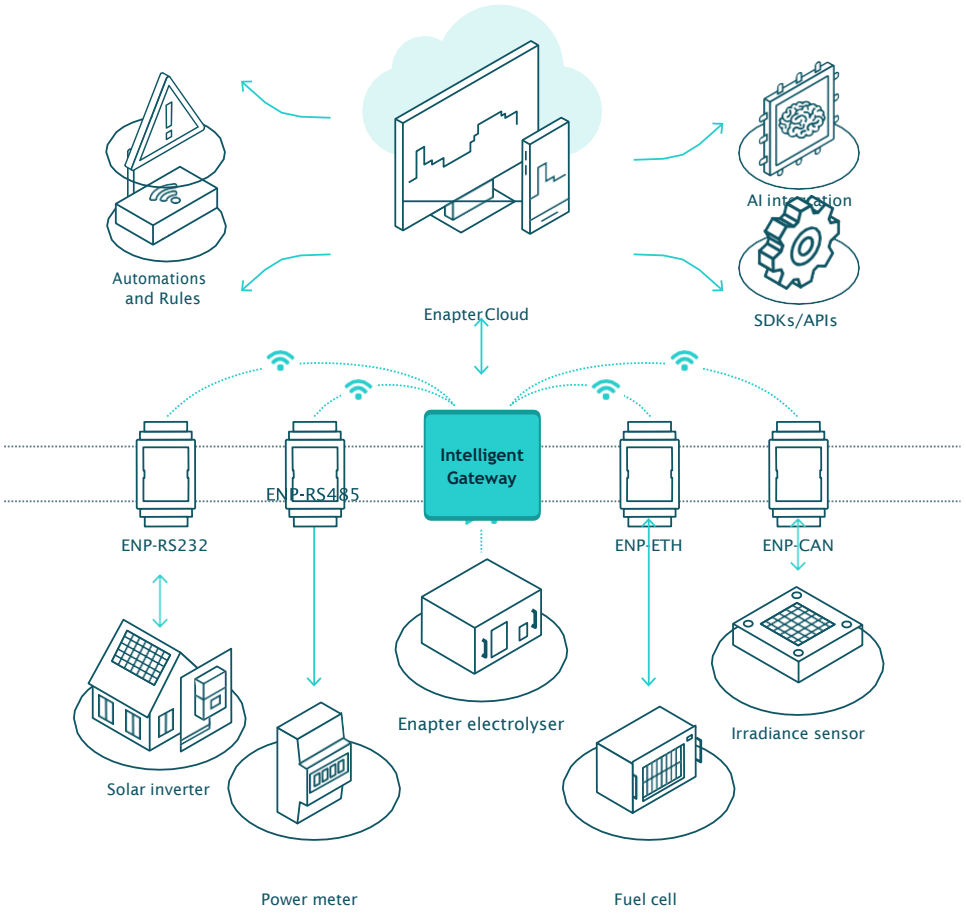

A comprehensive **web and mobile dashboard** is the user interface of the EMS. It provides full overview and control of all connected devices. It is not only the electrolyser that can be monitored and controlled; full analytics about the energy system are also available.

The EMS **maintains optimal performance** of the system, reducing both energy consumption and costs. If deviations are detected, customizable alerts (SMS, emails or calls) keep you informed to protect the energy system. A **rule-based management system** allows for the user to set and change the parameters of how different components of the energy system interact in an automated way. All Enapter products come with an **IoT communication module** for remote monitoring and control. Communication modules are also available to bring wireless connectivity to solar panels, hydrogen tanks, batteries, digital and analog sensors.

Industry grade standards: All software is equipped with MQTT and OPC-UA Interfaces to be Industry 4.0 compatible. Industry grade standards and protocols such as RS-485, CAN, Modbus, SNMP, HTTP and others are available. Adding new devices to the EMS couldn't be any easier. Simply connect a communication device and scan a **QR code** to commission your new device. All data is stored in the cloud (military-grade encryption) which is equipped with a **predictive 24/7 monitoring system**.

Mobile first. We build all features on mobile platforms to provide full flexibility to customers.

The autonomous **Enapter IoT Gateway** mitigates Internet connectivity issues and stores data locally for up to a year. The highly modular and scalable architecture collects and integrates custom sensor data into the system. The gateway is based on open-source-software, allowing customization, broad acceptance and collaborative work across the industry.

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