



# The evolution of Digital Energy



Regalgrid® is the **real-time energy services platform** that brings users into the **Digital Energy** era.

[w<sup>3</sup>.regalgrid.com](http://w<sup>3</sup>.regalgrid.com)

# Basic functions

## Monitoring portal

The Regalgrid® web portal provides clear and simple monitoring of both individual systems and groups of similar systems, **displaying real-time and historical data on power generation, consumption, storage and exchange with the power grid**. The web portal also lets users analyse any system alarms and define custom reports, offering a detailed snapshot of correct and optimal system operation.

## Installer APP

Installers can register new systems using a dedicated APP for smartphones: **an interactive guided process is provided to configure** a SNOCU in just a few simple steps.

By scanning the QR/barcode and running the self-test functions, the possibility of errors is minimised and installation is much faster. The APP provides a **report on the installed systems** and, through a notification system, allows installers to offer end **users remote service** (reducing costs for the installer and waiting times for users), as well as to stay up-to-date on news from Regalgrid® via specific notifications.

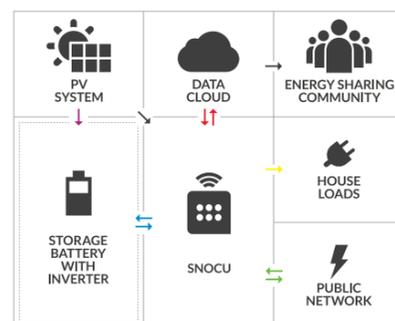
## User APP

The main interface between users and the Regalgrid® system is the dedicated user APP, providing intuitive system **monitoring** and **control functions**. Users have a complete view of current system status as well as trends over time, via customisable graphs and reports generated automatically by the Regalgrid® system. The dedicated APP is a true system remote control: users can manage their system from anywhere via the interactive functions available on the Regalgrid® platform on their SNOCU.

# Integrated functions

## Storage system optimiser

The SNOCU provides users with a series of automatic and transparent services **to optimise their energy storage system**. The local controller manages the energy storage system so as to extend its working life and allow users to make better use of their energy resource.



# Interactive functions

## Smart management of available power

The power booster function manages the energy storage system so as to not only ensure greater use of the energy generated by the photovoltaic system, but also provide users with **additional power that can be accessed during times of peak demand**, without needing to increase the contractual power rating.

## Reduction of storage system self-consumption

The SNOCU can use the system sensors and local controller **to activate and deactivate the energy storage system inverters** and consequently **reduce their power consumption** when they are active without actually supplying power to the user.

## Advanced diagnostics

Thanks to the development of proprietary drivers for the supported devices, the SNOCU can monitor the numerous hardware and software parameters of each individual device and provide both users and installers with **accurate diagnosis of system status**, making service simpler and faster and improving system usage.

## Access to the Regalgrid® community energy supply

The Regalgrid® system lets users join a community and **save on the tariffs offered by energy suppliers**. The suppliers are selected by Regalgrid® in order to provide members of the community with better deals than would be available to individual users.

# On-demand functions

## Integrated heating management

The Regalgrid® system enables communication between the SNOCU and devices such as the latest-generation heat pumps and boilers, thus providing a **platform that combines management of both power and heating** for complete optimisation of the user's energy systems.

## Advanced energy management for e-vehicle chargers

The SNOCU can be connected to a charging column for electric vehicles so as to **optimally manage vehicle power storage**, regulating the charging and discharging processes not only based on local information (e.g. home power consumption), but also on remote information such as the current cost of electricity or weather conditions that may affect power generation by the local photovoltaic system.

## Energy sharing between prosumers

The Regalgrid® system offers functions that go beyond simple virtual metering, managing the energy consumption of users in a community and making the system ready-to-go as soon as legislation allows for energy sharing. With a simple click, users **can switch from simply being a consumer to becoming a true prosumer**.



SNOCU is an **innovative local management solution that monitors and controls the devices in a photovoltaic system**, with or without energy storage, optimising their operation through both local functions and connecting them to the **Regalgrid® Digital Energy** service platform.