

Nice

Nice Tech #1

Home Energy Management System.

Efficient energy
management in your home.

🔍 Karol Drożyński

📅 13.08.2026
PL:10:00 EN:14:00

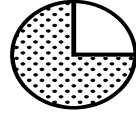


Why NICE Smart Living Solutions?



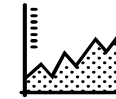
CENTRALIZED ENERGY MANAGEMENT

Nice Smart Living enables control of all major energy-consuming devices in the home (heating, air conditioning, ventilation, household appliances, EV chargers).



UNIQUE SMART HOME SYSTEM

Combined with the ability to control the PV inverter and energy storage system, while also taking dynamic energy tariffs into account.



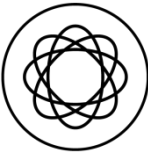
MAXIMUM OPTIMIZATION

Only a smart home automation system has information about the presence of household members and the flexibility to communicate with and control virtually any device.

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THE ROLE OF SMART HOME IN ENERGY MANAGEMENT

Yubii® Home



Yubii® Home Pro



- WIRELESS
- RELIABLE AND SECURE PROTOCOL
- REMOTE CONTROL
- VOICE ASSISTANTS
- COMPATIBILITY WITH SMART DEVICES
- NICE GREEN INNOVATION

- Yubii
- BiDi
- Z-Wave
- Wi-Fi

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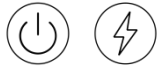
- Yubii
- BiDi
- Z-Wave
- Wi-Fi
- Zigbee
- Ethernet
- KNX bridge

Nice

Product portfolio

On/Off-Control2

CONTROL
SAVINGS



Main features and benefits:

- Independent control of two channels
- Independent power metering of two devices
- Max load 2x5A (total 10A)
- LED certified for up to 2x80W
- Zero-Cross Technology
- Can work as a double and single switch
- Optimal size for installation
- 9 port spring terminal including 3 Neutrals for easier installation
- Z-Wave 800 for better range, stability and Energy Efficiency
- Z-Wave signal repeater

Possible applications:

- LED lighting up to 80W per channel
- Standard, resistive lighting (old bulbs) up to 5A f
- Electric fans
- Mount behind an Energy Outlet for devices under 1.000W – small microvawes, blenders, rice cookers, coffemakers, customers electronics.

Also available for lighting:

- SingleSwitch-Control
- RGBW-Control
- Dimmer-Control



On/Off-Control2

DoubleDimmer-Control

COMFORT
SAVINGS
CONTROL



Main features and benefits:

- Independent dimming of two separate channels
- Independent power metering of two separate channels
- Certified for LED lighting – 2x70W
- Zero-Cross Technology
- Can work as a double and single dimmer
- Can also be used as an ON/OFF switch
- 9 port spring terminal including 3 Neutrals for easier installation
- Z-Wave 800 for better range, stability and Energy Efficiency
- Z-Wave signal repeater

Possible applications:

- All dimmable LED light source up to 70W / channel (or 1 channel 140W)
- All LED light sources up to 70W / channel (or 1 channel 140W)
- 12–24 V LED or halogens with dimmable electronic transformers
- Dimmable LED drivers (for example, in LED strips)

Also available for Lighting:

- SingleSwitch-Control
- RGBW-Control
- Dimmer-Control



DoubleDimmer-Control

Plug-Control2

CONTROL
SAVINGS
COMFORT

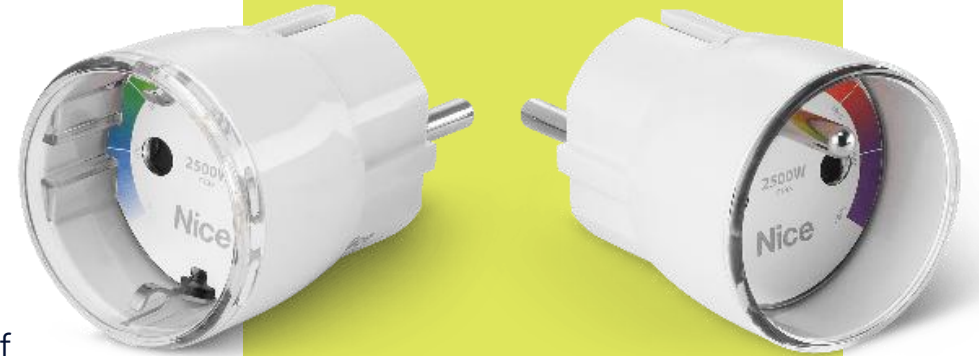


Main features and benefits:

- Direct and remote control over any connected appliance
- Updated Z-Wave 800 chipset with better range, stability and speed
- Improved maximum load to 12A (2750W)
- Maintained design and size
- Added support for plug-in microinverters – Plug-Control2 reads the production of energy

Possible applications:

- Basically any plug-in appliance up to 12A – lights, lamps, toasters, electric kettles, TVs, speakers, battery chargers.
- Remotely control or plan the desired behaviour of the connected devices – turn on/off accordingly to hour, period, Energy usage and more
- Connect your microinverter and create automations in the system based on the Energy production

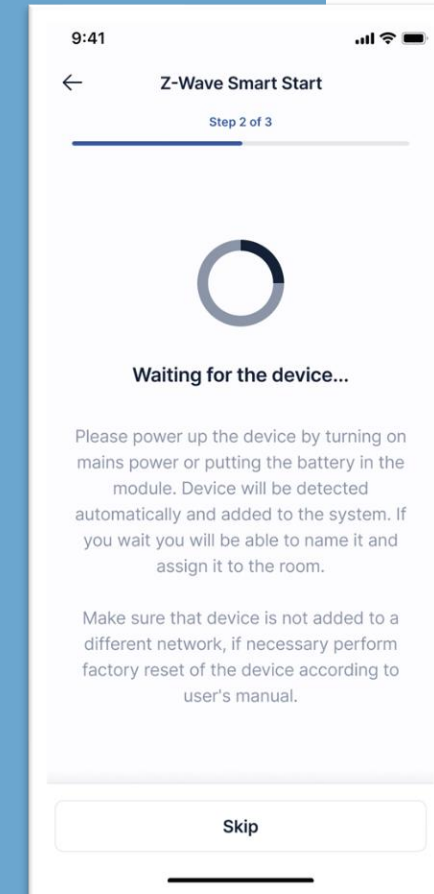
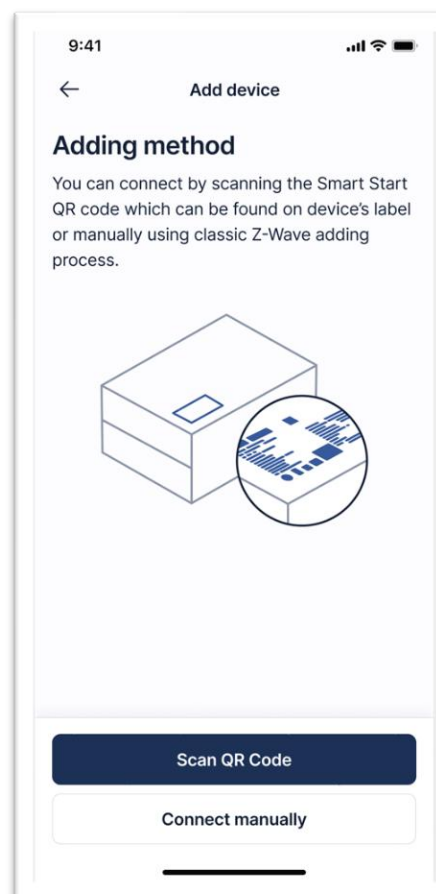


Plug-Control2

Smart Start (support for adding Z-Wave devices (by QR code))

Main benefits:

- Reduces the time need to add new Z-Wave device to the system.
- No need to search for inclusion info of third party Z-Wave devices.
- Supports Z-Wave devices introduced to the market over the last few years.



HMS Smart Energy Meter 1 & 3 Phase

A smart way to manage your
electricity consumption.



1 & 3 Phase Energy Meter

CONTROL
SAVINGS



Main features and benefits:

- Z-Wave based 1 phase Energy meter
- Clamp solution (1 phase = 1 clamp)
- Up to 60A/100A of load
- Measures Power, kWh, kVah, Voltage, Amperage, power factor parameters.
- DIN rail mount

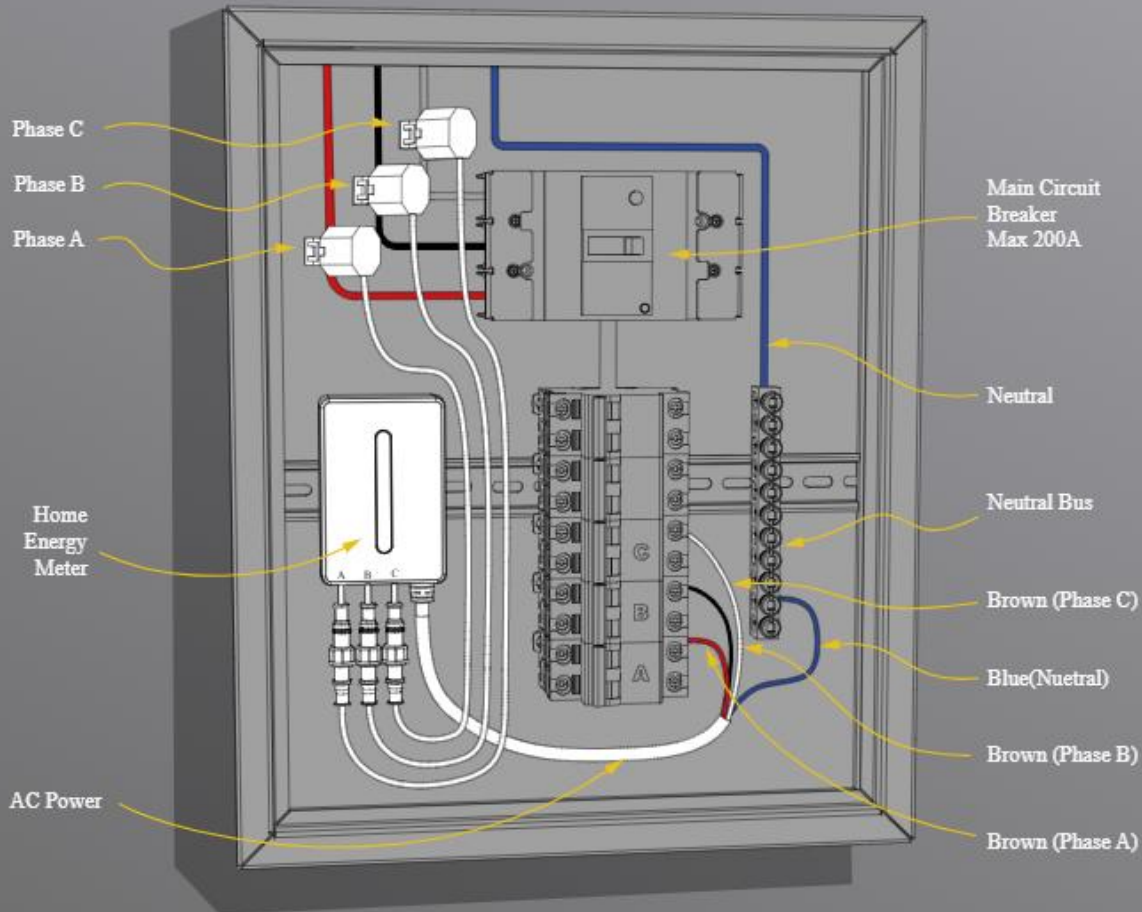
Possible applications:

- Utilize fully your Energy Panel to monitor and control the power consumption within your household
- Create automations based on the current Energy usage
- Acquire two Smart Meters and effectively manage PV installation.



1 Phase Energy Meter

Nice



Installation

The smart meter is designed to be mounted on a DIN rail and simply connected to the mains by 2 wires and a clamp.

To add/remove it to a Z-Wave hub simply remove the main body of the meter from the back plate and press the button (an LED will blink red when in pairing mode) until the hub positively concludes pairing (solid red).

You're ready to go.

Possible product bundles



Energy Control Bundle

Yubii Home Hub 1pc
Smart Energy Meter 1 or 3
Phase 1pc
Plug-Control 2pcs



Photovoltaics Bundle

Yubii Home Hub 1pc
Smart Energy Meter 1 or 3 Phase
2pcs
Hubnetworklink 1pc

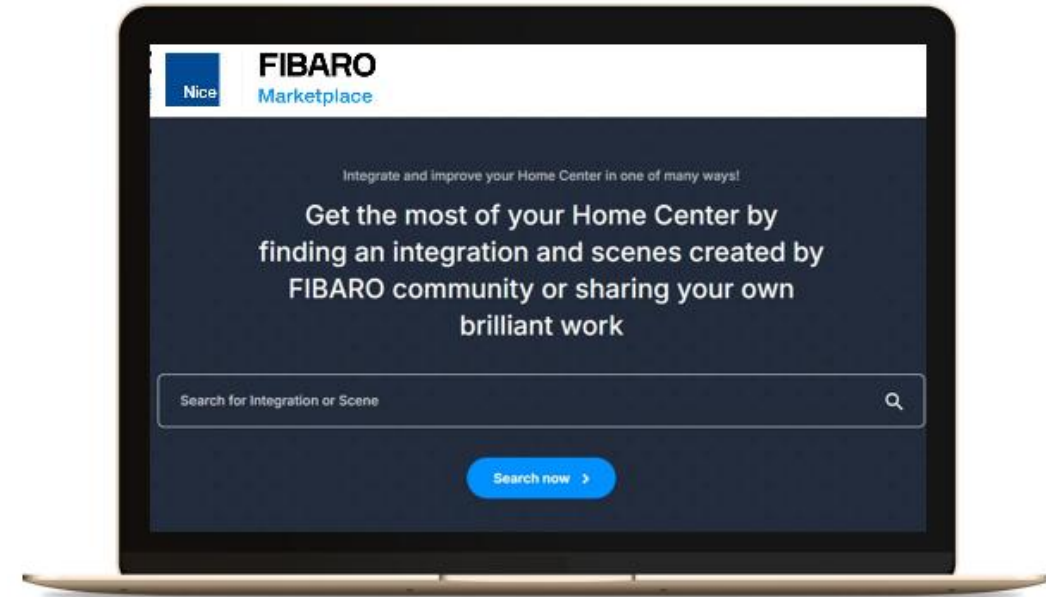
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Pluginy & QuickApps

Markteplace - QuickApps:

Discover new and advanced integrations tailored to your individual needs.

Share your unique ideas and keep your data confidential with QuickApps encryption.



RENEWABLE ENERGY INTEGRATION – QUICK APP & HTTP/TCP



INTEGRATIONS

- renewable energy integrations are implemented as Quick Apps based on the manufacturers' official documentation.
Local communication via network (HTTP/TCP), either directly with the Yubii
- hub or through the manufacturer's cloud.

READY-MADE SOLUTIONS Available on the Nice/FIBARO Marketplace.



Photovoltaics
installation (PV)



Heat pumps



Recuperation

DYNAMIC ENERGY TARIFFS

MARKET ENERGY PRICES

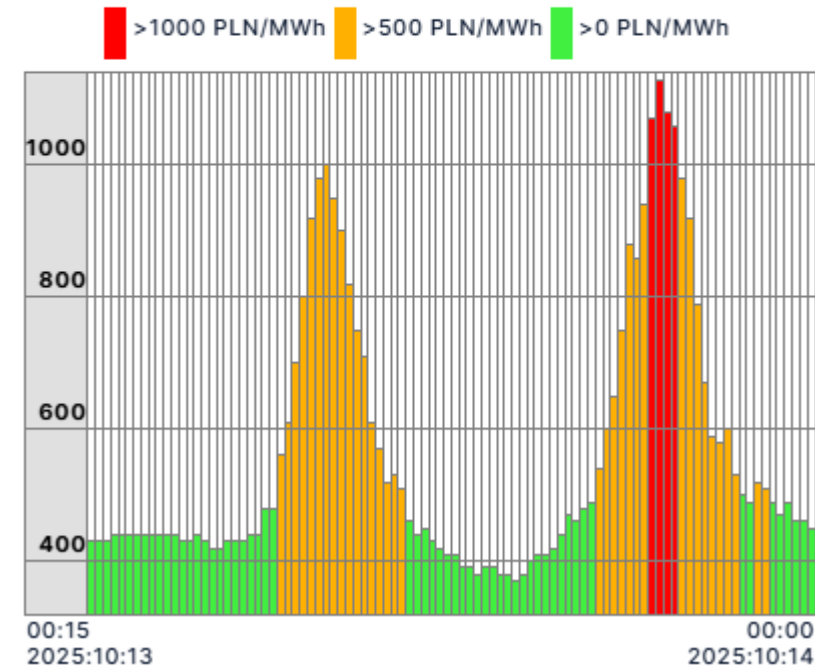
- **MARKET ENERGY PRICES:** Energy prices are published one day in advance, with pricing updated in 15-minute intervals.
- **SMART PLANNING:** Nice Smart Living can schedule battery charging and device operation to maximize energy savings.
- **EXAMPLES:** Charge the battery during low-price periods and power the home from the battery during high-price periods.



KEY VALUE

Without an intelligent energy management system such as SmartPower, using variable energy tariffs is significantly less effective.

Taryfa sprzedaży: RCE [PL]
Cena: **497.99** PLN/MWh
2025.10.12 20:49:01
Cennik: 2025.10.12 20:21:00
min:370.67, max:1128.76, śred:561.39 PLN/MWh



SELF-CONSUMPTION AND ENERGY STORAGE



- **Energy storage (batteries):** allows surplus solar energy to be stored and used later, for example in the evening when household energy consumption increases.
- **Alternative energy storage:** surplus energy can be “stored” by increasing the temperature of domestic hot water (DHW) tanks or heating buffer tanks, or by using air conditioning to cool the home on hot summer days.
- **Automatic optimization:** Smart Living Solutions can automatically increase the operation of secondary heaters in the heat recovery ventilation system or increase EV charger power when surplus energy is available.



PV



DHW



Buffer
tanks



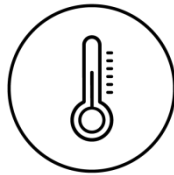
AC

ENERGY PROFILES AND AUTOMATIONS



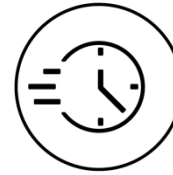
SUMMER

Optimization for
high PV
production and
increased air-
conditioning
usage



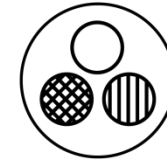
WINTER

Priority given to
heating and
optimized energy
storage



VACATION

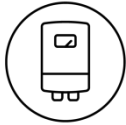
Minimized energy
consumption and
maximum battery
utilization



HOLIDAY SEASON

Adaptation to increased
energy consumption during
holiday periods

RENEWABLE ENERGY INTEGRATIONS (1)



PV INVERTERS (HYBRID)

- Reading produced and consumed power
- Battery status charging
- Changing priorities
- Response to energy prices



HEAT PUMPS

- Remote switching of operating modes
- DHW and heating setpoint adjustment
- Response to Smart Grid signals
- Efficiency optimization



EV CHARGES

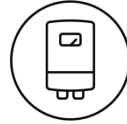
- Setting the maximum charging power
- Adjusting charging power to surplus energy production
- Charging priorities

RENEWABLE ENERGY INTEGRATIONS (2)



RECUPERATION

- Ventilation performance control
- Bypass function
- Supply air temperature
- Operating modes



ENERGY METERS

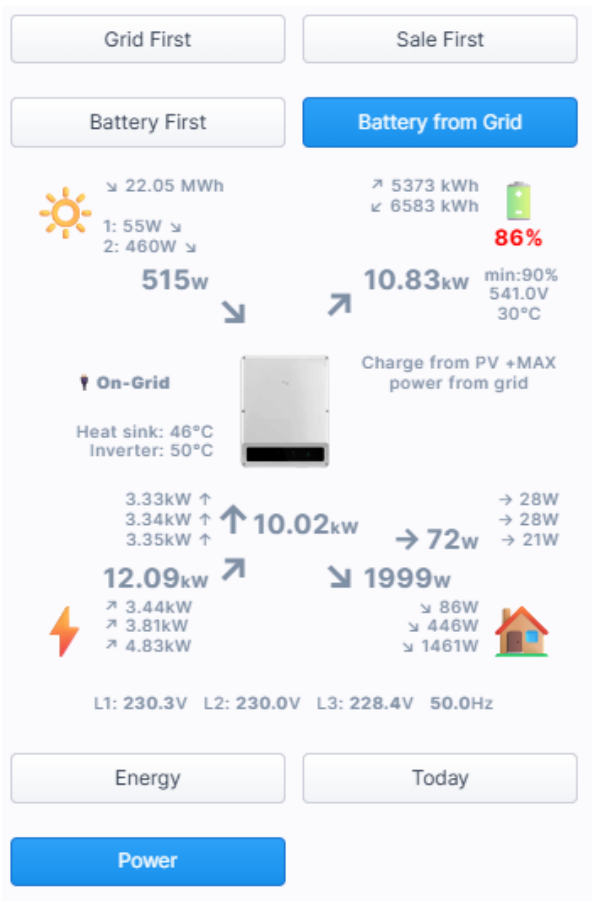
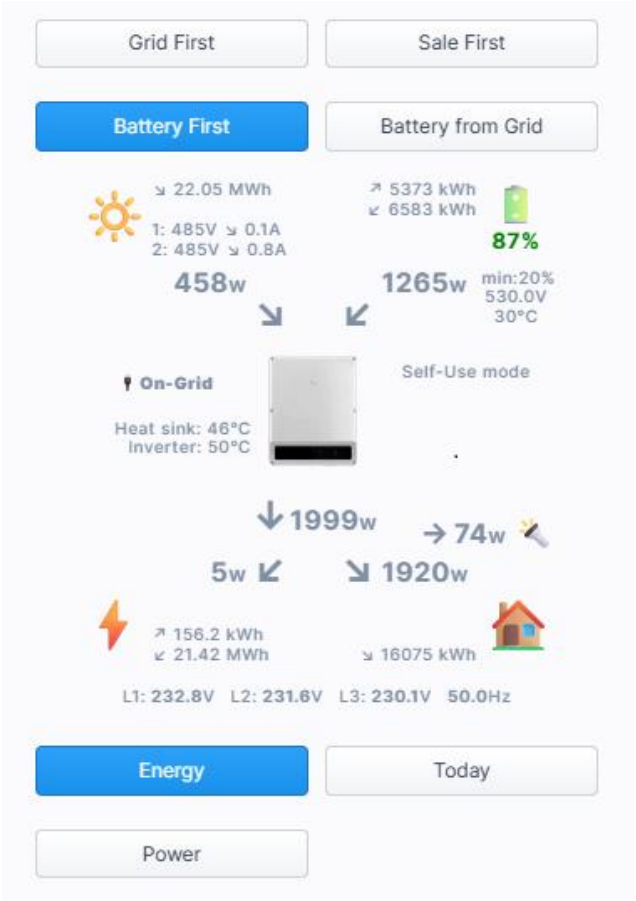
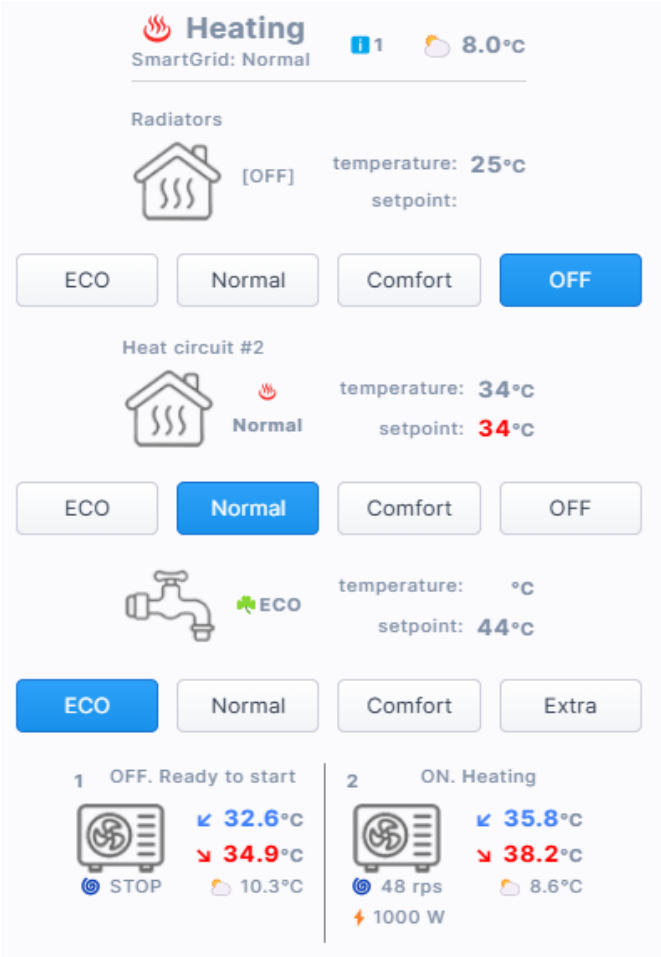
- Modbus meter integration
- Allocation of consumption by device
- Real-time monitoring
- Trend analysis



HOUSEHOLD APPLIANCES

- Ready-made Quick Apps at FIBARO/Nice Marketplace
- Custom scenes
- Response to smart grid states
- Automatic energy management

RENEWABLE ENERGY INTEGRATIONS – EXAMPLES



EXAMPLE AUTOMATION SCENARIOS



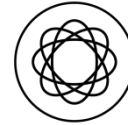
PV SELF-CONSUMPTION OPTIMIZATION

- Automatically increase the domestic hot water (DHW) temperature when surplus solar energy is available.
- Increase EV charging power when excess energy is being exported to the grid.
- Use the secondary heater in the heat recovery ventilation system when surplus PV energy is available.



SMART VENTILATION

- Increase heat recovery ventilation (HRV) performance when elevated CO₂ levels are detected (more people present).
- Reduce ventilation performance when windows or patio doors are open.
- Boost ventilation when elevated humidity levels are detected in bathrooms.



DYNAMIC ENERGY TARIFF MANAGEMENT

- Charge the energy storage system during the cheapest hours in winter.
- Heat domestic hot water (DHW) to a higher temperature during low-price periods.
- Switch the heat pump to ECO mode during high-price periods.



COMFORT & SECURITY

- Automatic ventilation control in emergency situations (fire or CO detection).
- Notifications about faults and errors in renewable energy system devices.
- Adapting system operation to household occupancy and residents' schedules.

PV inverters with batteries

SMA: <https://marketplace.fibaro.com/items/sma-sunny-pv-inverters>

Growatt: <https://marketplace.fibaro.com/items/growatt-hybrid-pv-inverters>

GoodWe: <https://marketplace.fibaro.com/items/goodwe-hybrid-pv-inverters>

Huawei: <https://marketplace.fibaro.com/items/huawei-sun2000-pv-luna2000-battery>

Deye: <https://marketplace.fibaro.com/items/deye-sun-hybrid-pv-inverters>

Solax: <https://marketplace.fibaro.com/items/solax-tommatech-qcell-hybrid-pv-inverters>

Sigenergy: <https://marketplace.fibaro.com/items/sigenergy-hybrid-pv-inverters>

Heat pumps

Daikin: <https://marketplace.fibaro.com/items/daikin-altherma-heat-pump>

Weishaupt: <https://marketplace.fibaro.com/items/weishaupt-heat-pumps-integration-for-fibrao-nice>

Recuperation

Komfovent: <https://marketplace.fibaro.com/items/komfovent-domekt-heat-recovery-ventilation-hrv-rekuperacja>

THESSLAGREEN: <https://marketplace.fibaro.com/items/thesslagreen-airpack-heat-recovery-ventilation-hrv-rekuperacja>

PRO-VENT: <https://marketplace.fibaro.com/items/pro-vent-mistral-rc7-heat-recovery-ventilation-hrv-rekuperacja>

Frapol: <https://marketplace.fibaro.com/items/frapol-onyx-heat-recovery-ventilation-rekuperacja>

Energy meters:

F&F FOX: <https://marketplace.fibaro.com/items/f-f-fox-energy-meters-wi-mef-1-3>

Eltako Energy Manager: <https://marketplace.fibaro.com/items/eltako-energy-manager-zgw16>



Nice

**Thank You.
It's Nice**

www.niceforyou.com