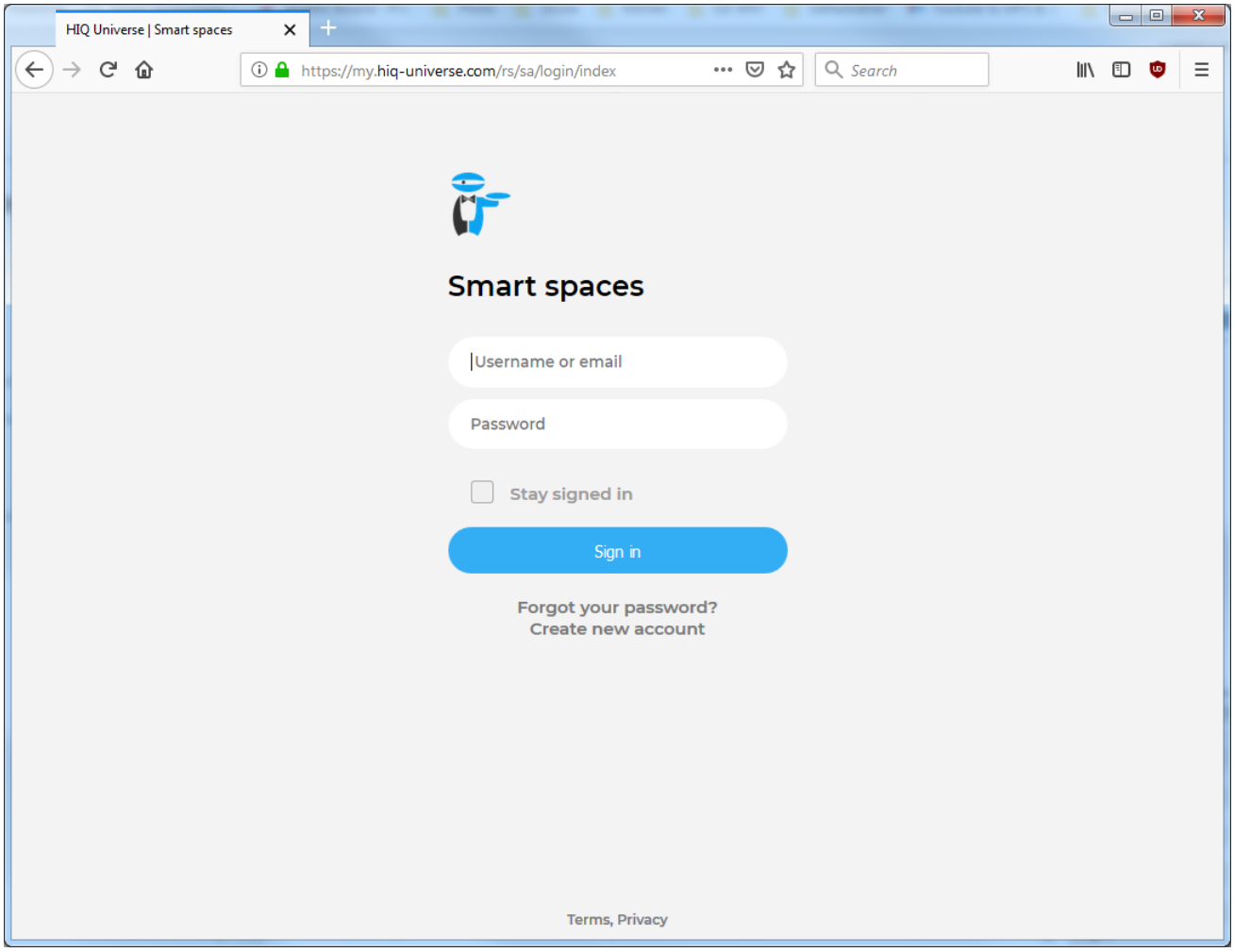
HIQ UNIVERSE

HIQ Universe is a cloud service that enables:

- An overview of current power consumption and
- An overview of the history of electrical power and energy consumption and production.

Access point: https://my.hiq-universe.com

HIQ Universe Log-in

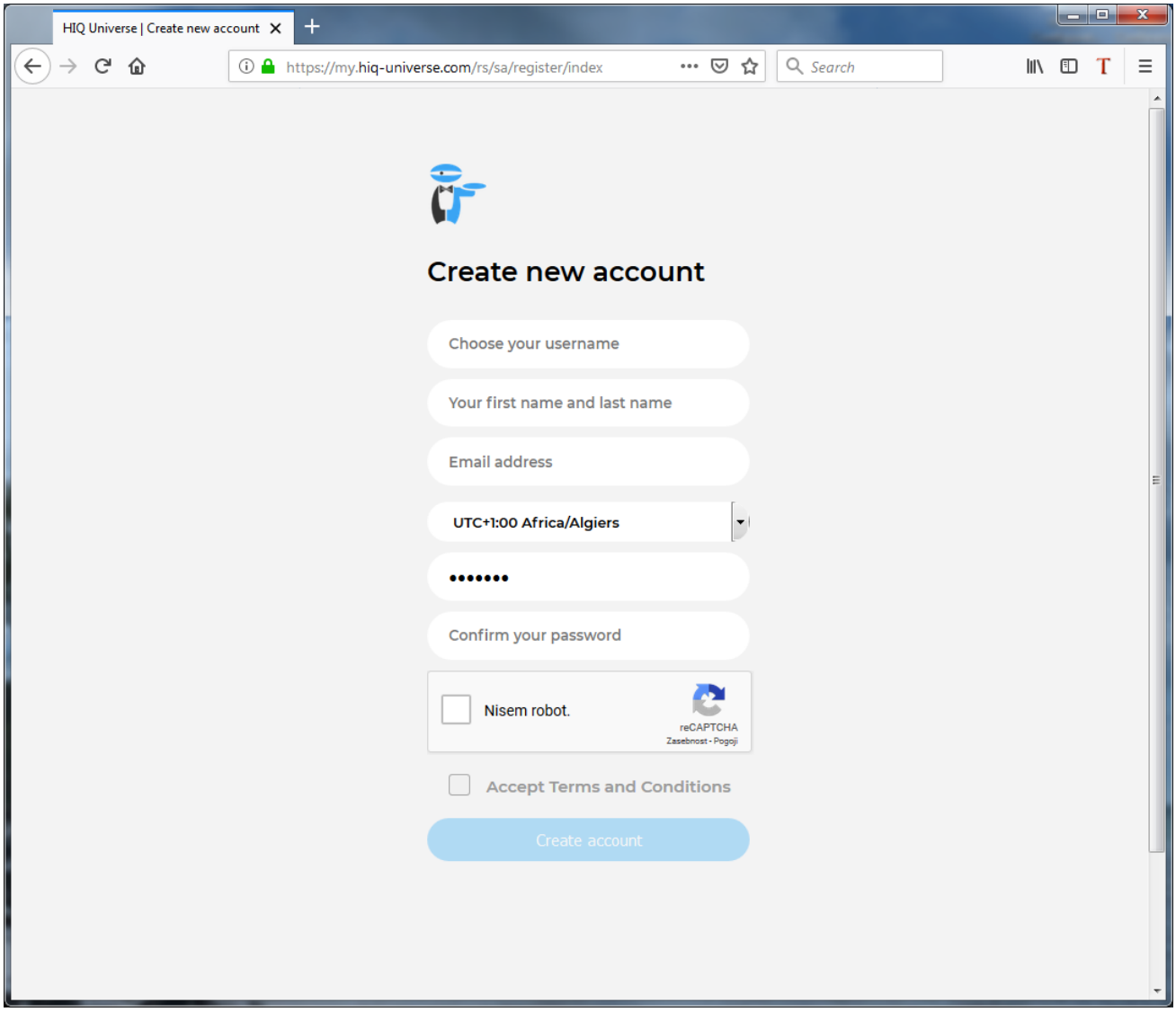


Log in with your username or email and password to see your HIQ Universe subscription dashboard.

To reset forgotten password click on "Forgot your password?"

To create new account click on "Create new account".

Create HIQ Universe account



In the appropriate fields, enter:

- Username
- First and Last name
- E-mail address
- Timezone
- Password

Click on “I'm not a robot”

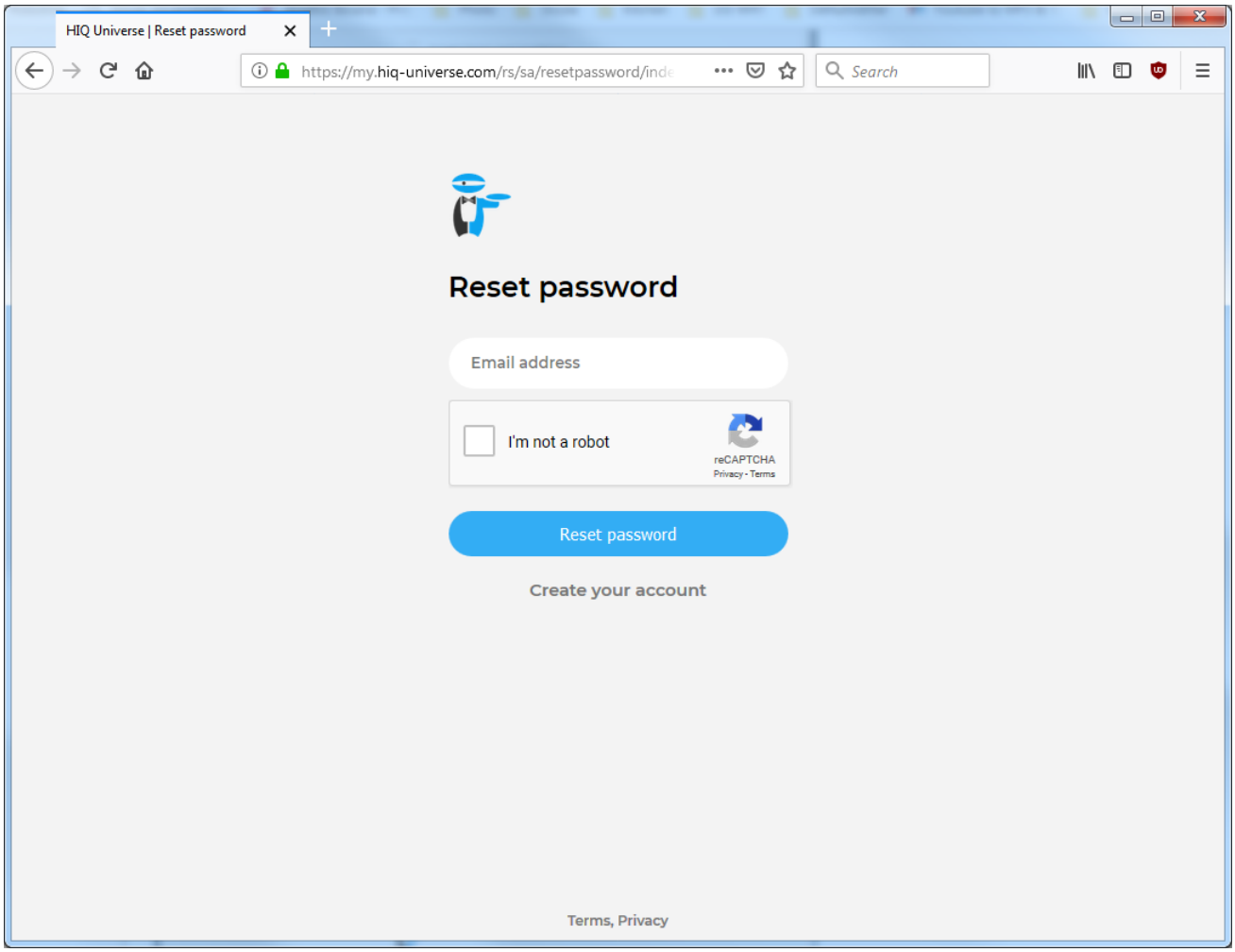
Accept Terms and Conditions.

Click on Create account.

A confirmation link will be sent to your email address.

Proceed to "HIQ Universe Log-in" screen.

Reset forgotten password

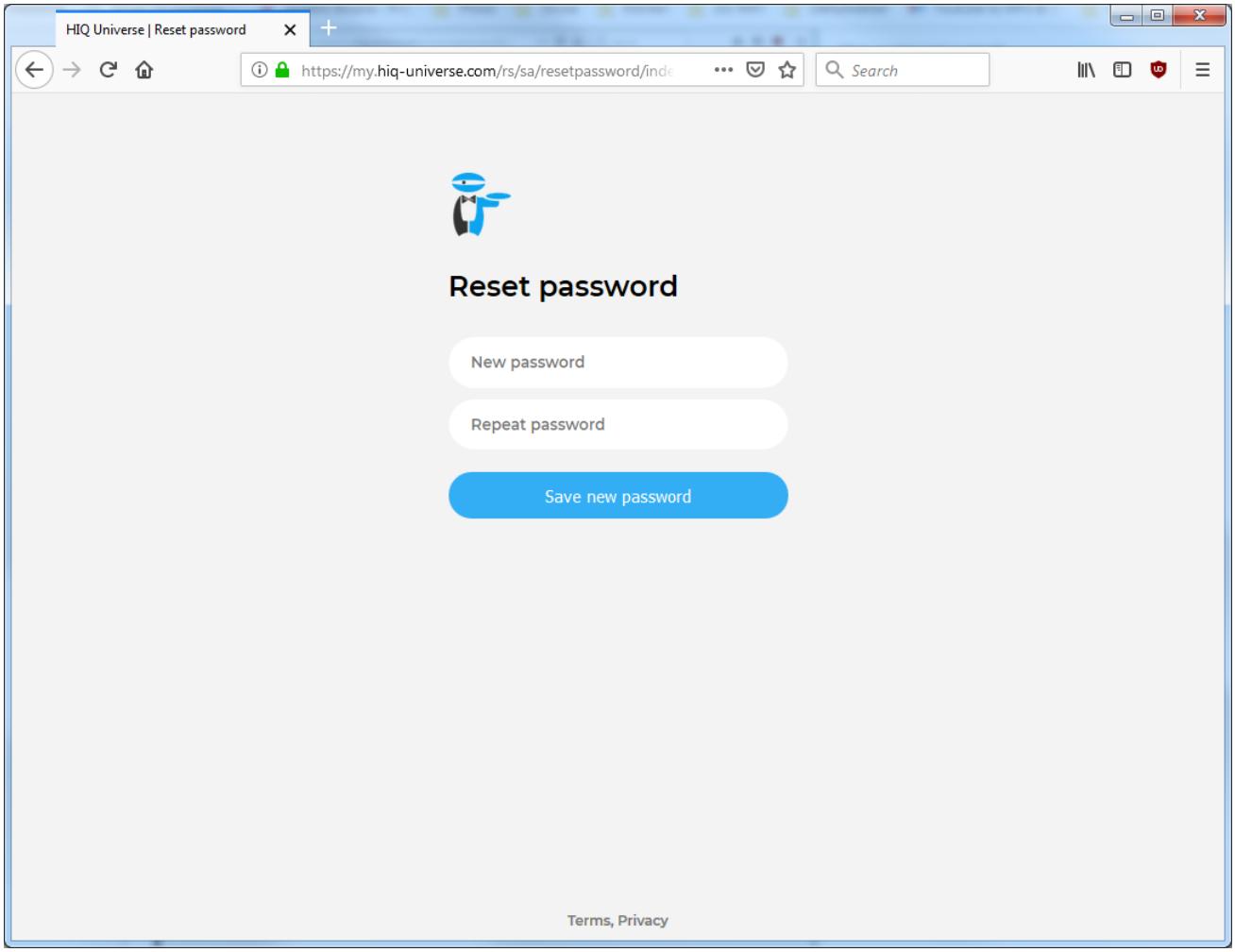


In the appropriate field, enter email address.

Click on “I'm not a robot”

Click on “Reset password”.

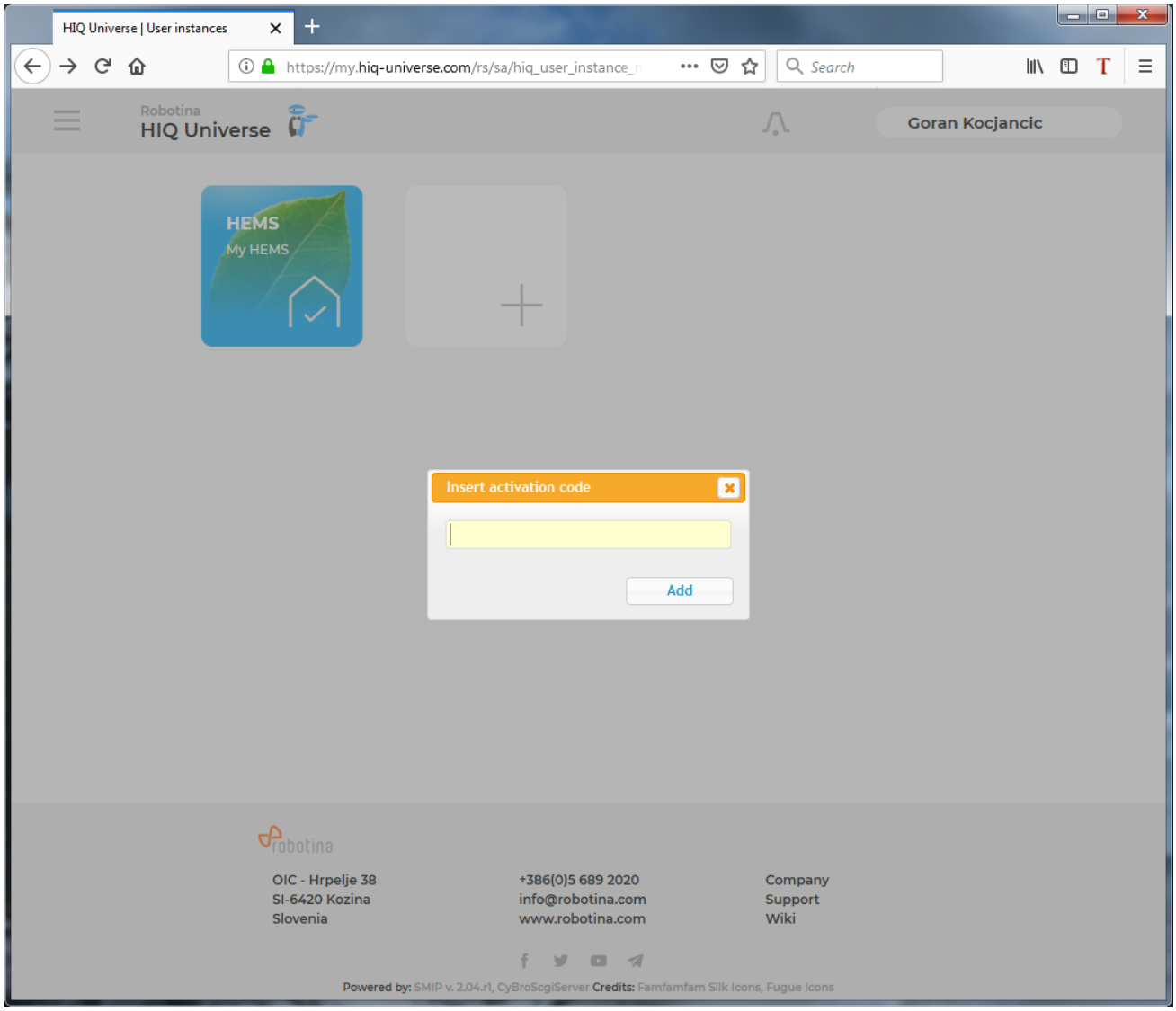
You will receive email with password reset link.



Enter new password and click on “Save new password”.

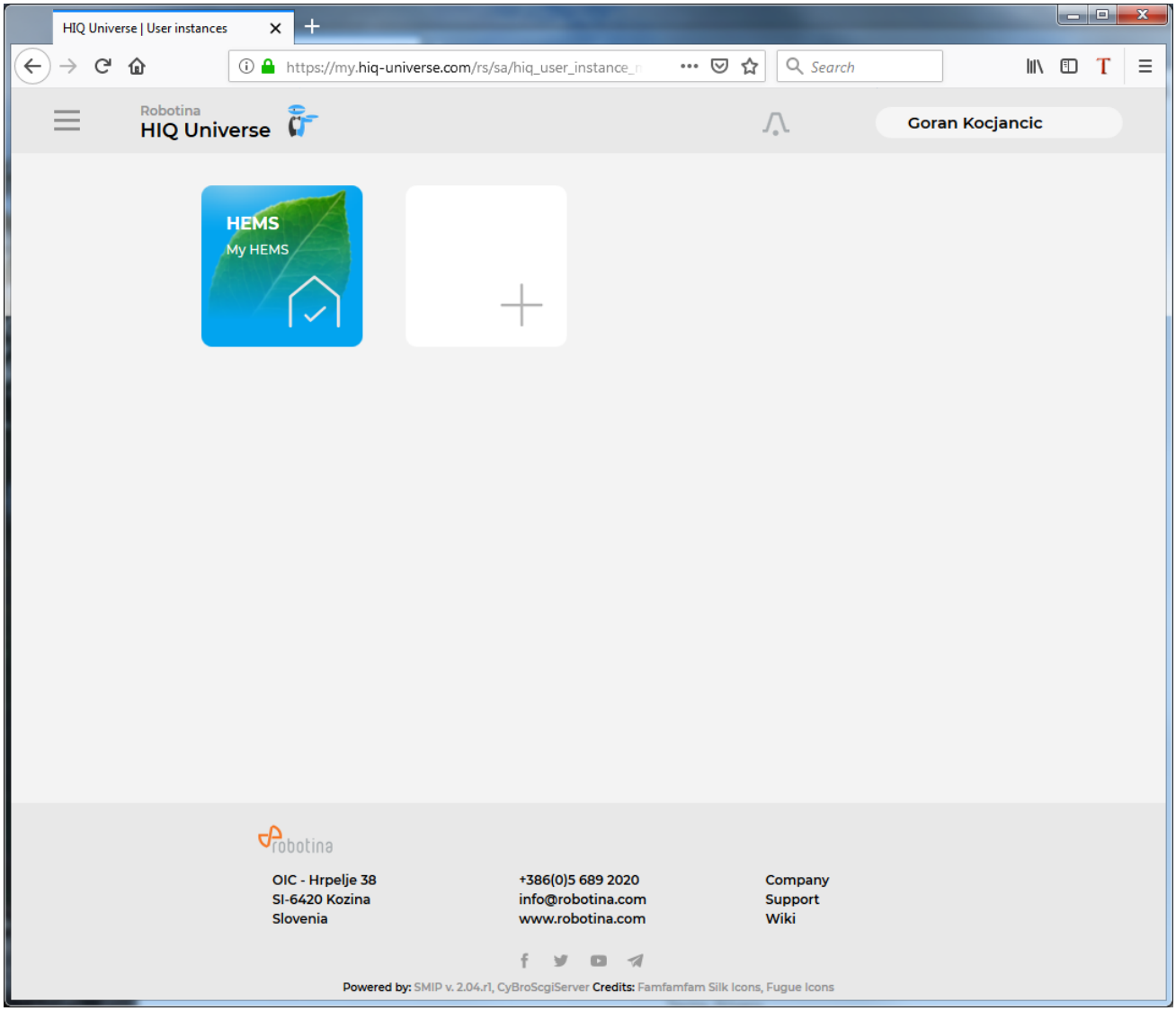
Proceed to "HIQ Universe Log-in" screen.

Add HEMS controller



Enter HiQ universe activation code that you received from your installer.

HIQ Universe subscription dashboard



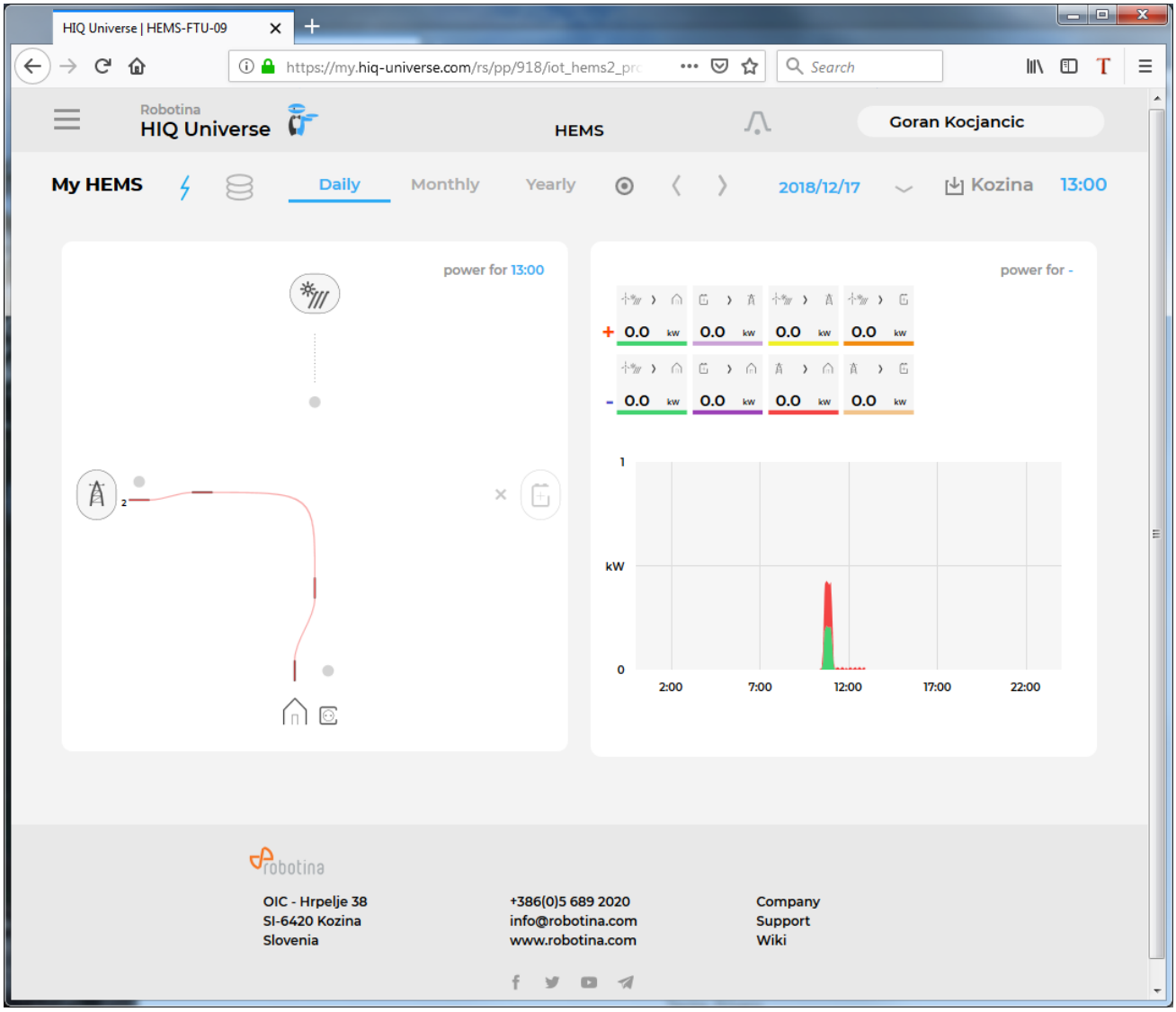
You will see tiles for all your subscribed HIQ Universe devices and services.

Go to Main HEMS view by clicking on HEMS tile or

add new HEMS device by clicking on blank tile with + sign.

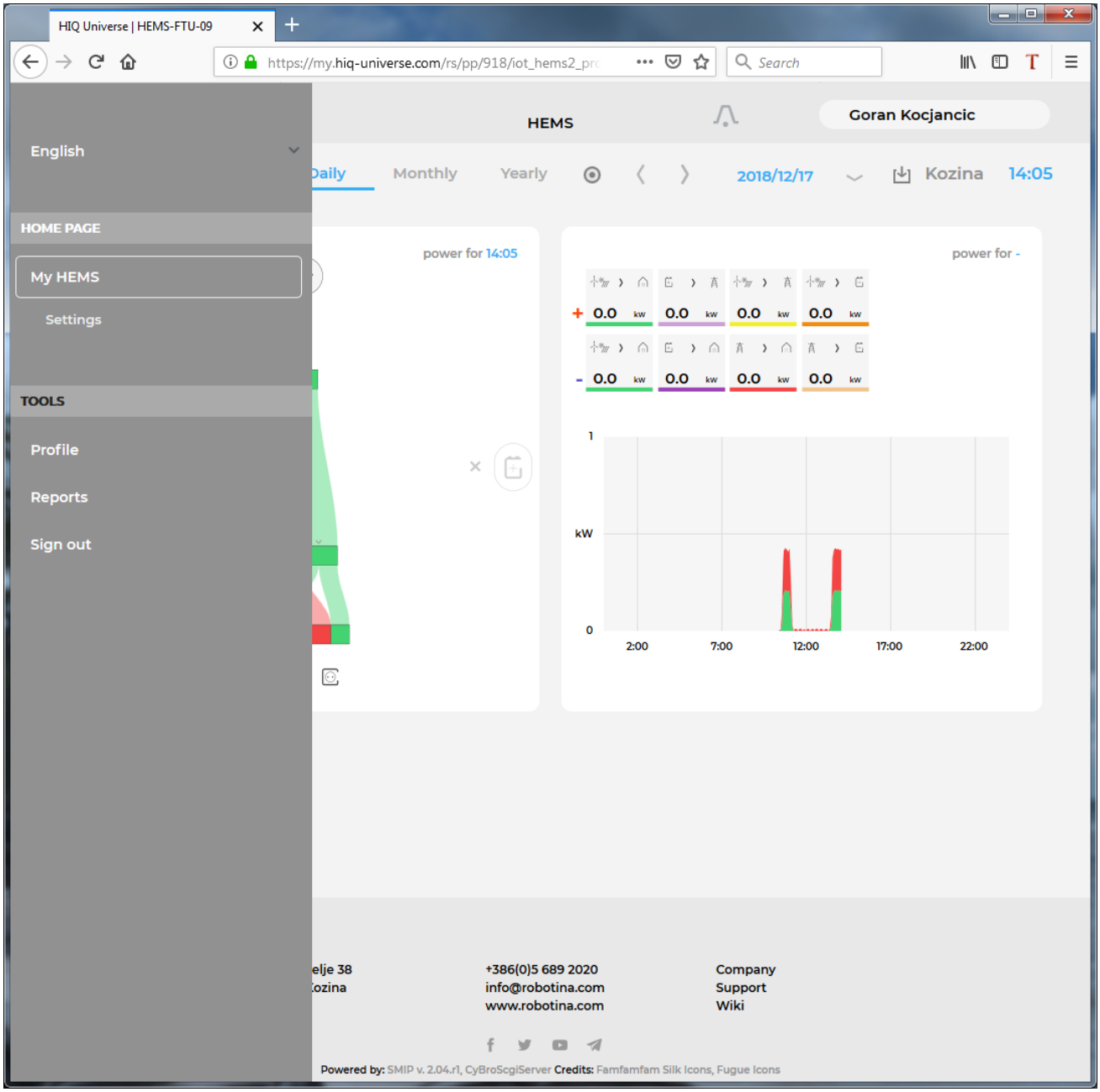
"User profile set-up" is invoked by clicking on user name on top right.

Main HEMS view



Main HEMS page consists of 3 sections:

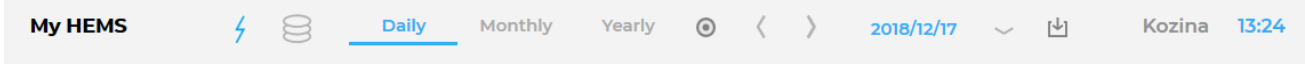
- "Title and view selection row" at the top
- "Power flow chart" on left side
- "Power and energy time-plot" on right



Side menu is activated by clicking menu icon (tree vertical lines at top-left). Menu items are dynamic created so can be different for each user. Typical menu items from top:

- Language selection
- Home page → section with all your subscribed HIQ Universe devices and services
  - MyHems → "Main HEMS view"
    - Settings → "HEMS settings"
- TOOLS → section with general site tools
  - Profile → "User profile set-up"
  - Sign out → Log off from HIQ Universe

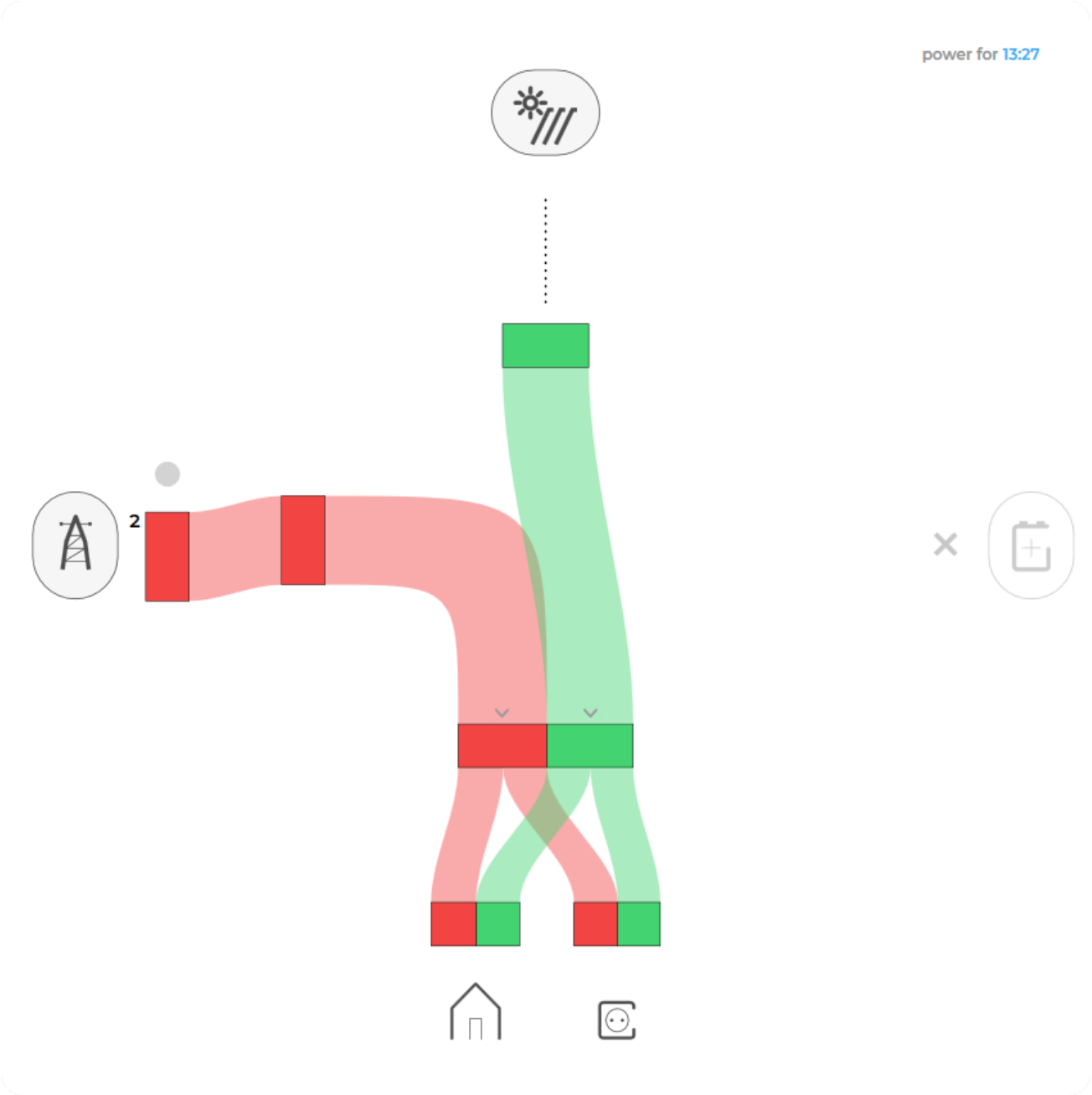
Title and view selection row



From the left:

- HEMS name
- Lighting icon → time-plot displays energy or power
- Money icon → time-plot displays currency
- Daily → time-plot displays power
- Monthly → time-plot displays energy per day
- Yearly → time-plot displays energy par month
- Target icon → time-plot go to now
- < → time-plot goes to previous term
- > → time-plot goes to next term
- Date → Select term for time-plot
- Download icon → Download “csv” data for displayed time-plot period
- Location of HEMS installation
- Time at HEMS installation site.

Power flow chart

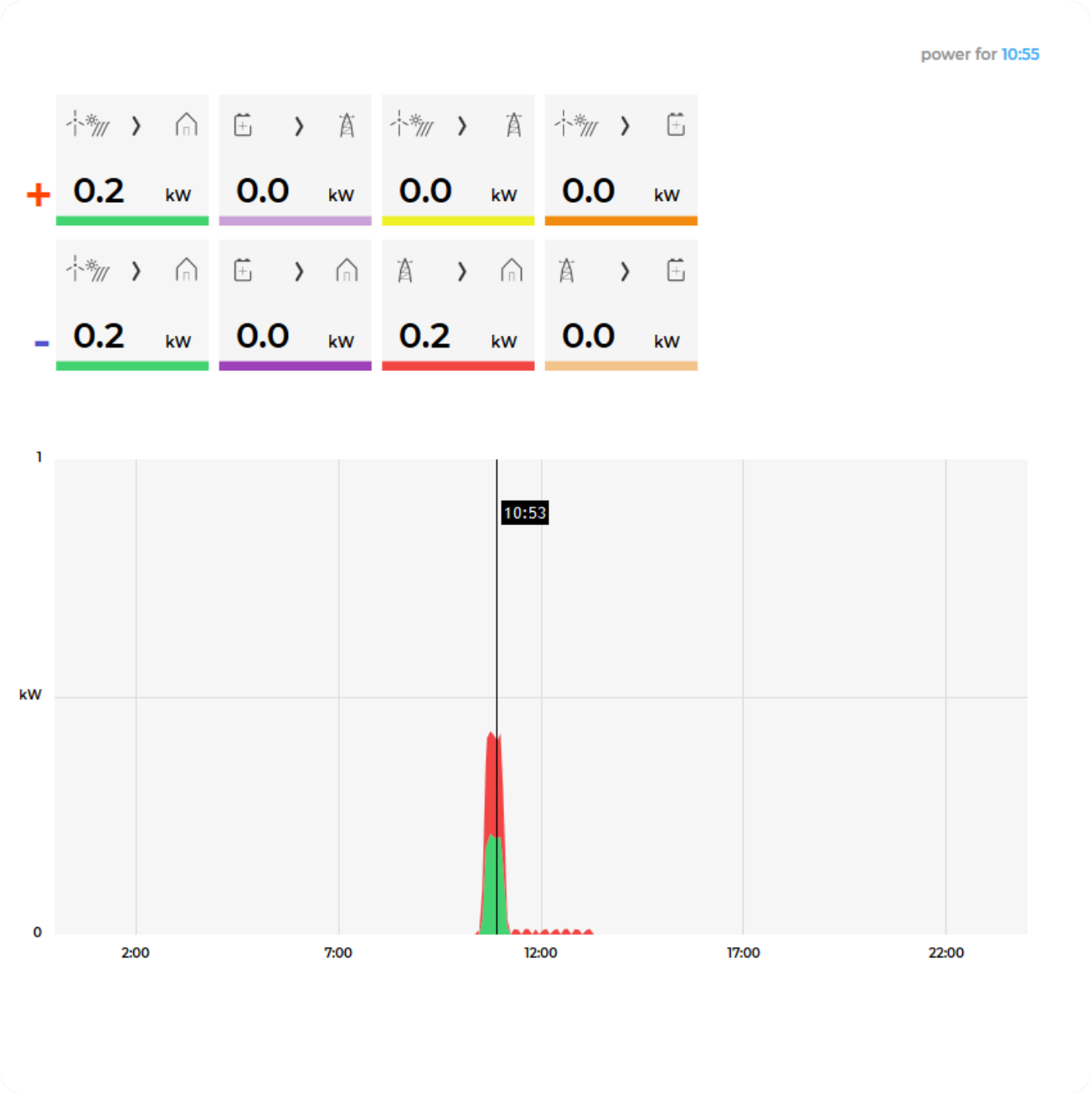


Displays actual power flow with:

- Power sources (Local PV, wind, co-generation plants) at top
- Grid (divided by tariffs) on left side
- Storage (battery) systems on right side and
- Consumers on bottom.

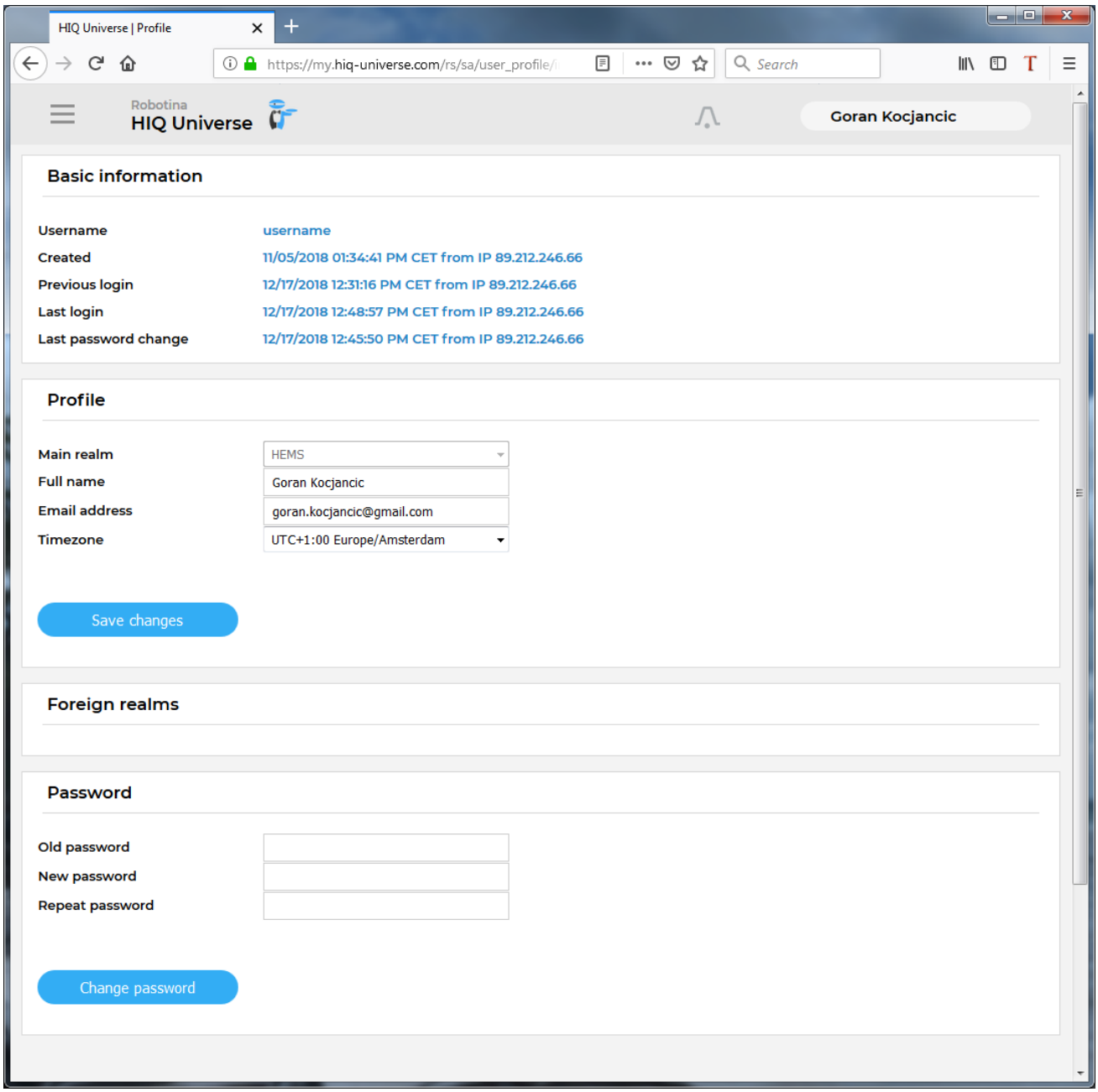
Unused items are soft greyed out with X. Items without actual power are displayed as dots.

Power and energy time-plot



On bottom is time-plot for selected time period (in title row). By clicking on time plot a term for legend display is selected. Above there is power/energy legend.

User profile set-up



Basic information section:

- Username
- Created date and IP
- Previous and last login date and IP
- Last password change date and IP

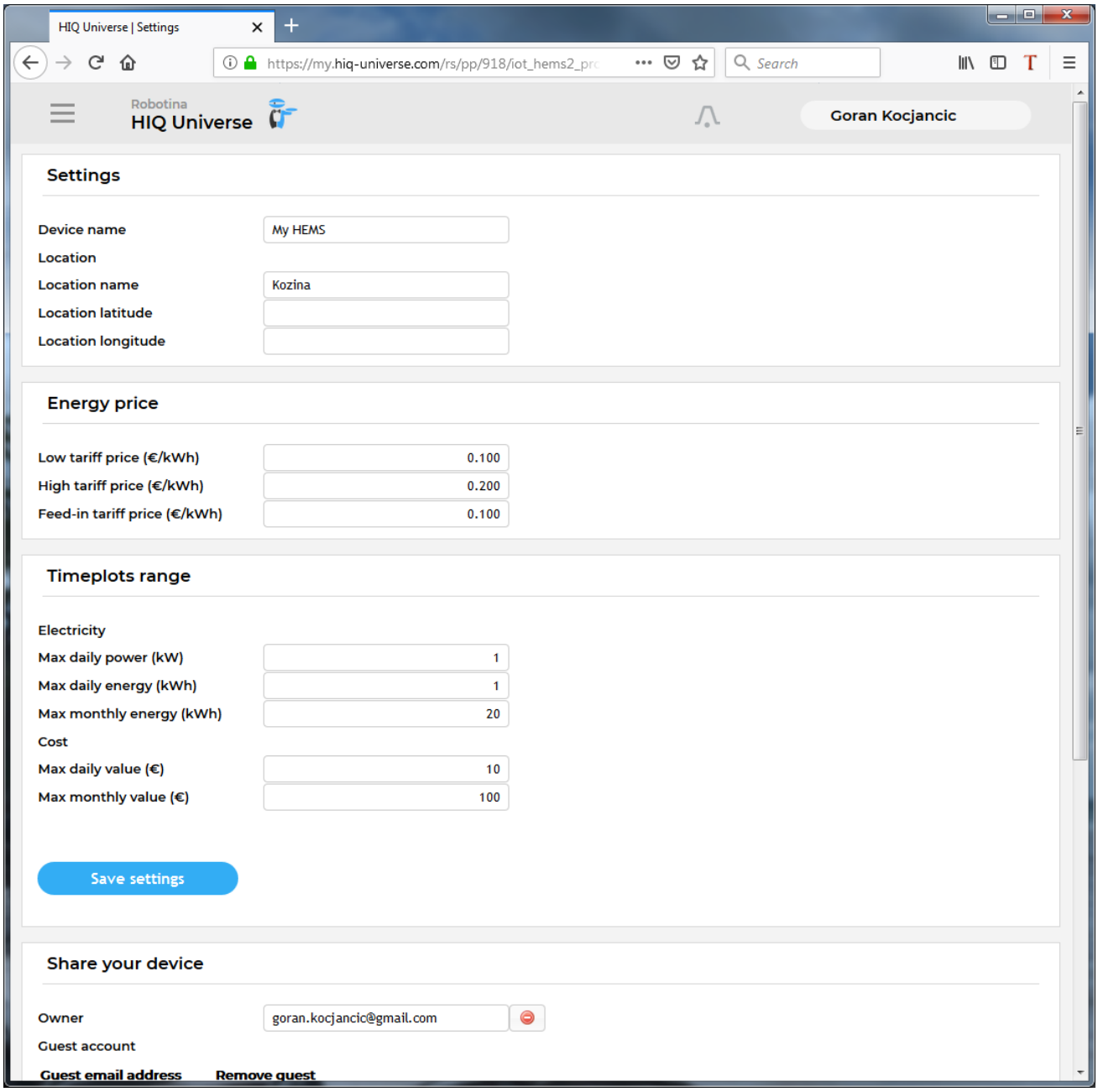
Profile section:

- Main realm display
- Full name, email address and timezone edit fields

Foreign realms - devices and services where you have access to bat you are not owner.

Password: fields for password changing.

HEMS settings



Sections:

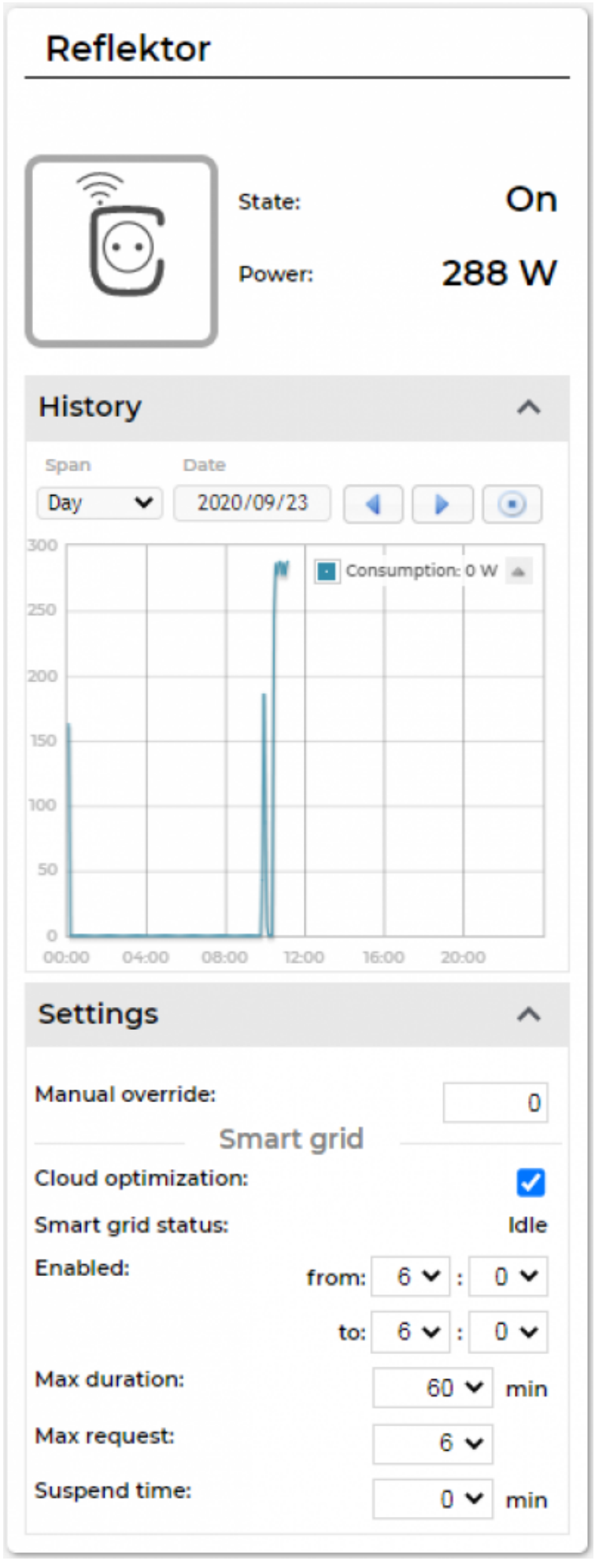
- Settings:
  - Device name
  - Location name and coordinates
- Energy price: per tariff energy price
- Timeplots range: ranges for various timeplots
- Share your device: manage device sharing guest accounts

My Things and Smart-grid settings

My Things GUI could be accessed within the HiQ Universe platform by clicking the MyThings item within the main menu. Individual devices are presented as a group of cards, divided on four groups:

- Consumers
- Production
- Storage
- Sensors.

Consumers


Reflektor
State:
On
Power:
288 W
History
Span
Date
Day
2020/09/23
300
250
200
150
100
50
0
Consumption: 0 W
00:00
04:00
08:00
12:00
16:00
20:00
Settings
Manual override:
0
Smart grid
Cloud optimization:
Smart grid status:
Idle
Enabled:
from:
6
0
to:
6
0
Max duration:
60
min
Max request:
6
Suspend time:
0
min

Consumers present devices, that consume electric energy. Within the group of Consumers, the first card present a general consumption of the object - a background consumption. The following items present real controllable devices, such as DHW Heater, Heat pump, wireless socket, etc. An example of a device is shown in the following image.

The form of a card of each consumer is composed of the general part, history and settings part.

General

General part contains:

Name of a device, which can be changed by user.

Icon (button) enables toggling the device operation state (Switch on / Switch off).

State label contain the information of device operation state (On / Off / Error).

Power label contain the information of device consumption power in watts.

History

History part shows historical consumption of a device. The temporal range can be selected as daily, weekly, monthly or yearly. Daily and weekly range shows power consumption in watts, while monthly and yearly range shows energy consumption in kilowatt-hours.

The interface enables time-frame selection and time-frame alignment to current time.

Settings

Manual override presents the time in minutes. When the user switches on the device, the device will automatically turn off after manual override minutes.

Example: manual override is set as 30 minutes. When the user switches on the device, it will switch off after 30 minutes.

Note: Manual override is disabled if it is set to 0 minutes.

If manual override is bigger than 0, the device will switch off automatically after specified number of minutes.

Smart grid settings

Cloud optimization enables or disables smart grid service.

Smart grid status label shows smart grid operation state with the following states:

- *Idle* - the device is not in activation
- *Executing* - the device is in activation

Enabled section specify the temporal range between **from** and **to** in the form of *hh:mm*, in which the device is allowed to be switched off from according to the smart-grid service. If **from** is larger than **to**, then temporal range is the opposite. If **from** and **to** are equal, then the smart-grid

service is enabled 24 hours a day.

Example: from 10:00 and to 14:00 enables the smart-grid service between 10:00 and 14:00, and disables in all other times.

Example: from 14:00 and to 10:00 disables the smart-grid service between 10:00 and 14:00, and enables in all other times.

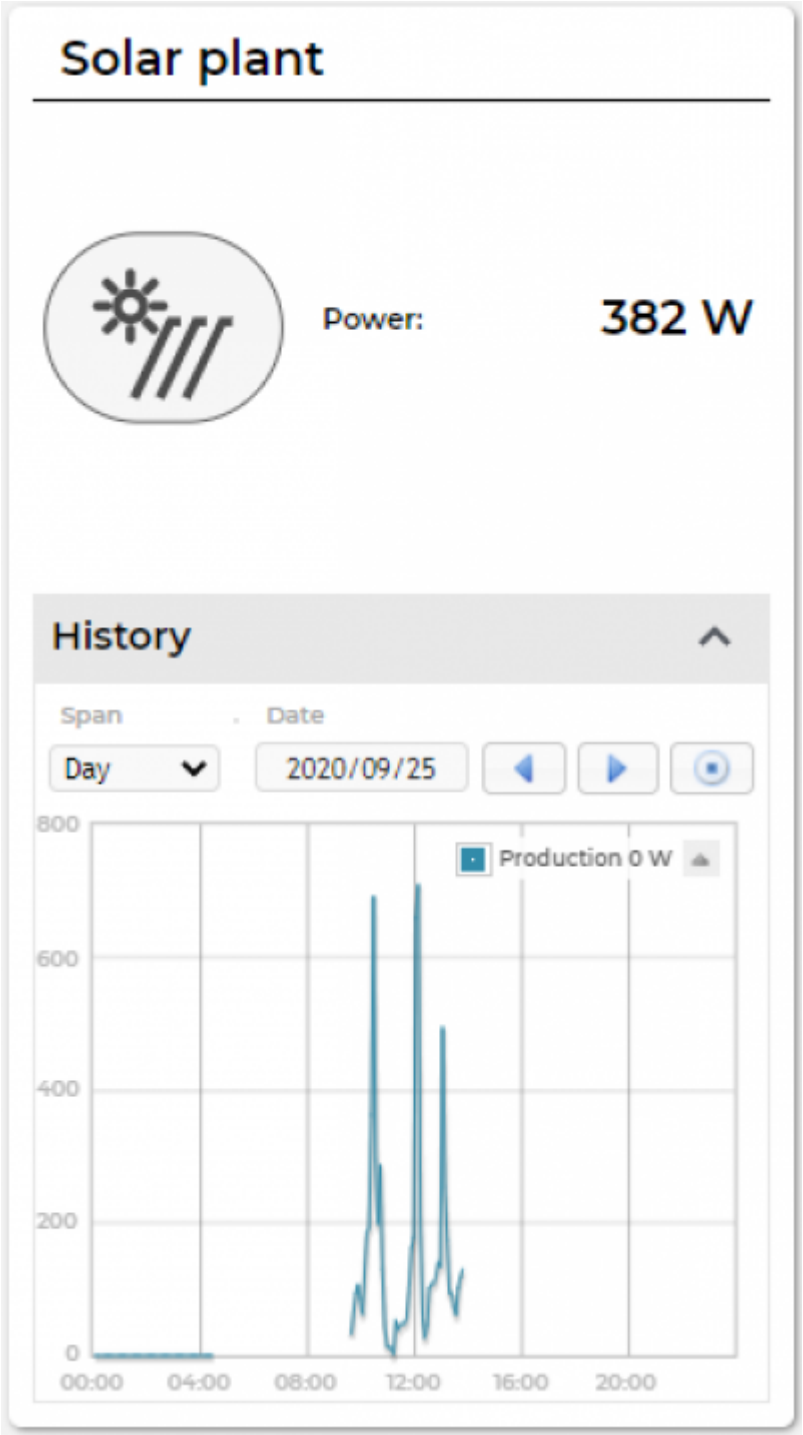
Example: from 14:00 and to 14:00 enables smart-grid service is always enabled.

Max duration setting limits the duration of time, the smart-grid service switches off (activates) the device. After smart-grid service activates the device, the device will deactivate (switch back on) after max-duration minutes at the latest.

Max request setting limits the maximum daily activations from the smart-grid service.

Suspend time presents the time in minutes, which has to pass between two activations (between the stop of one activation and start of another).

Production



Producers present devices or systems that produce electrical energy. Example of such devices are solar power plant, wind power plant, diesel generator and others. An example on the following figure shows solar power plant.

General

General part contains:

Name of a plant, which can be changed by user.

Icon represent the type of producer.

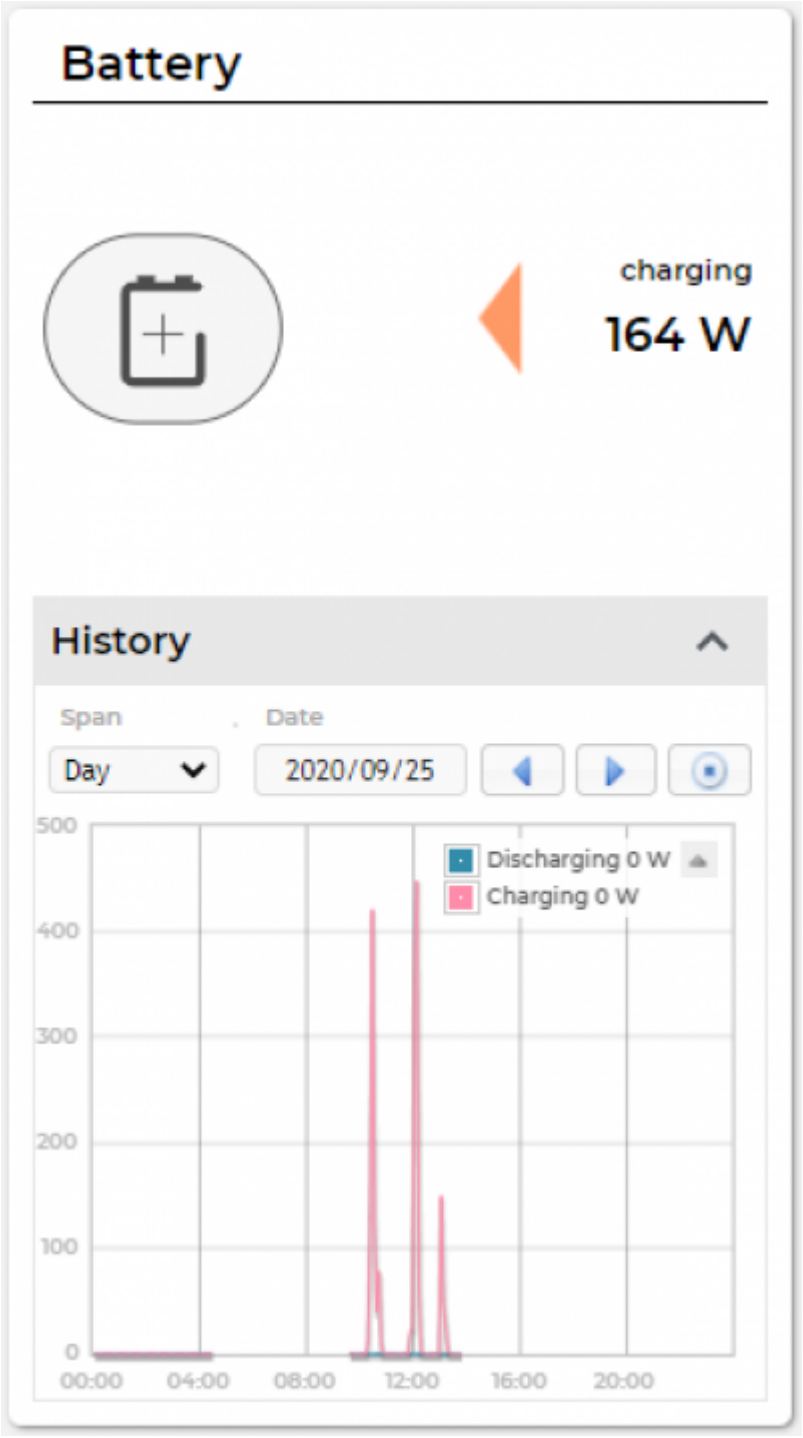
Power label contain the information of device production power in watts.

History

History part shows historical production of a device. The temporal range can be selected as daily, weekly, monthly or yearly. Daily and weekly range shows power production in watts, while monthly and yearly range shows energy production in kilowatt-hours.

The interface enables time-frame selection and time-frame alignment to current time.

Storage



Storage present battery as shown in an example figure on the left.

General

General part contains:

Name of a battery, given by the user.

Icon representing the battery.

Power label contain the information of charging or discharging power in watts.

History

History part shows historical charging or discharging power of a device. The temporal range can be selected as daily, weekly, monthly or yearly. Daily and weekly range shows power charging or discharging in watts, while monthly and yearly range shows energy charged or discharged in kilowatt-hours.

The interface enables time-frame selection and time-frame alignment to current time.

Sensors