

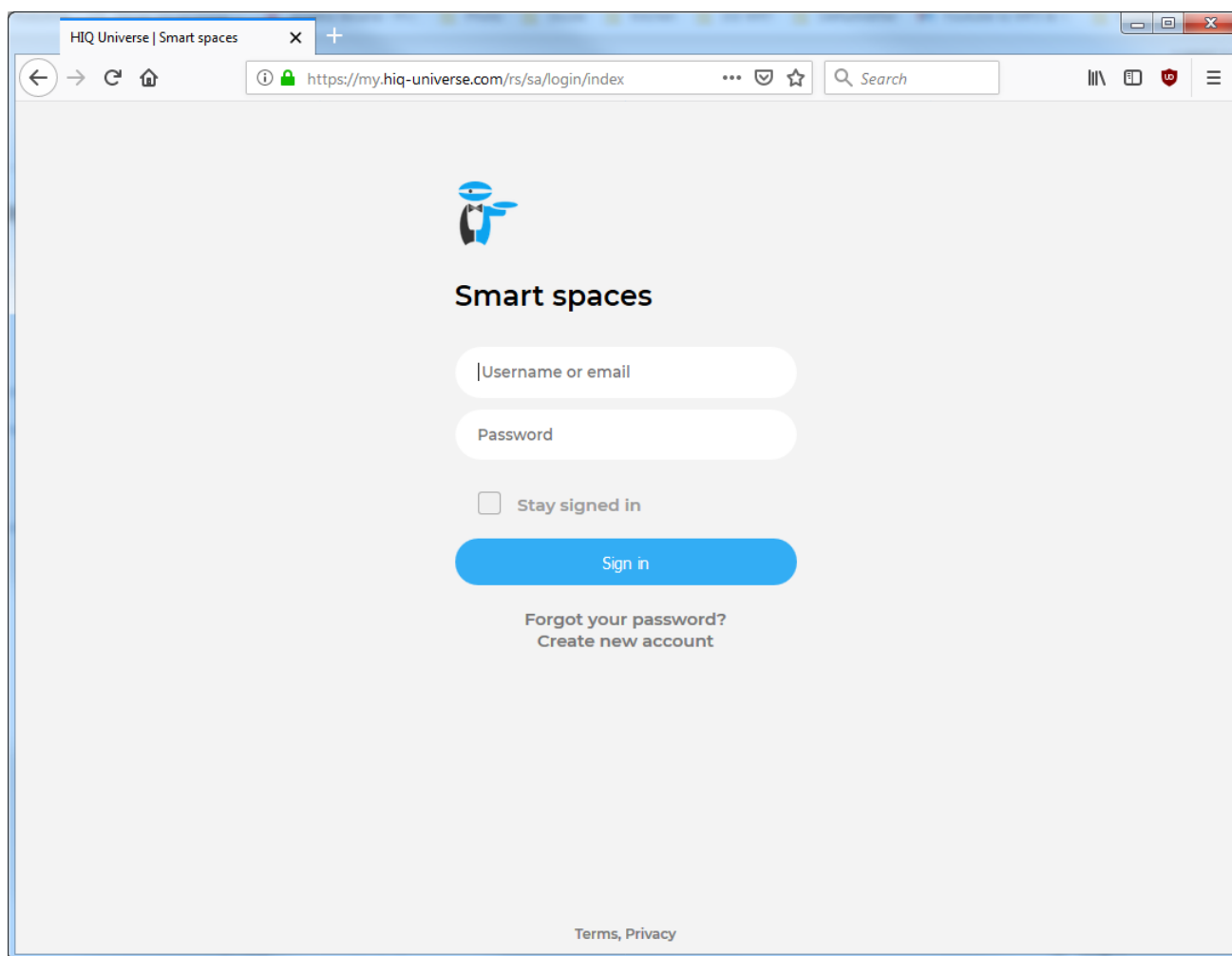
HIQ UNIVERSE

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

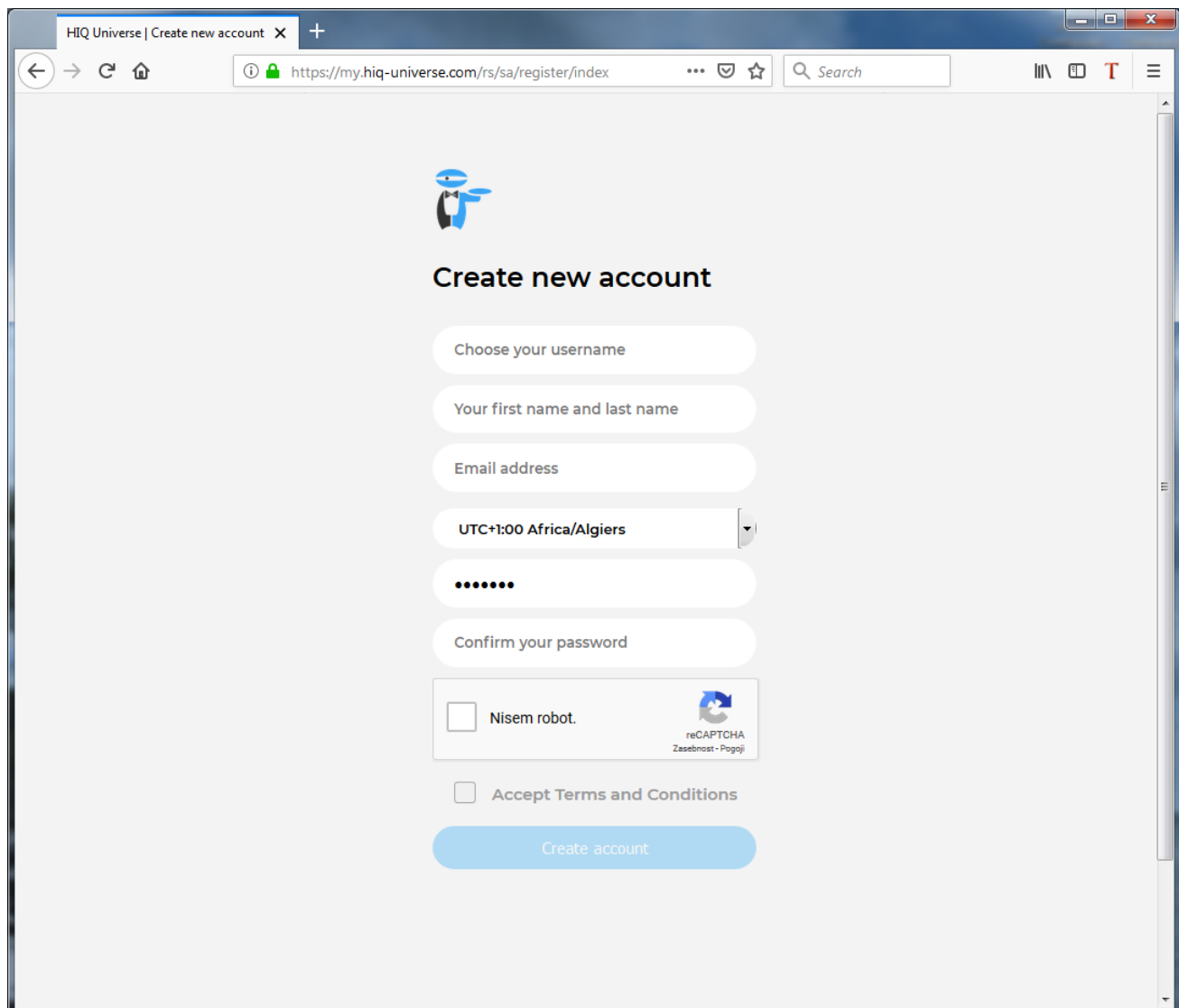
A screenshot of a web browser window showing the login page for 'Smart spaces'. The browser's address bar displays 'https://my.hiq-universe.com/rs/sa/login/index'. The page features a blue robot icon at the top, followed by the title 'Smart spaces'. Below this are two input fields: 'Username or email' and 'Password'. A checkbox labeled 'Stay signed in' is positioned below the password field. A prominent blue 'Sign in' button is centered on the page. Underneath the button, there are two links: 'Forgot your password?' and 'Create new account'. At the bottom of the page, a link for 'Terms, Privacy' is visible. The browser window includes standard navigation buttons and a search bar.

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"

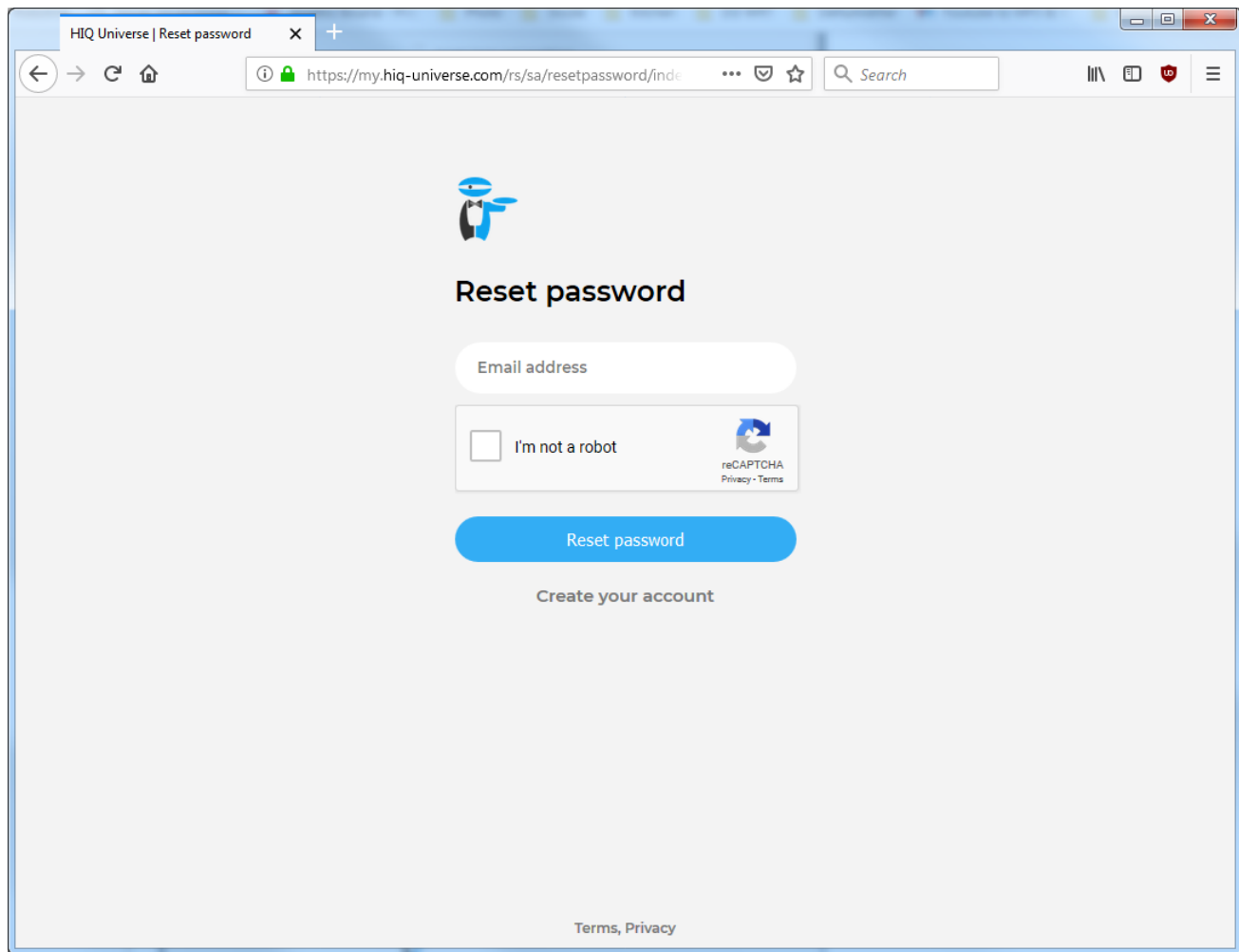
Accept Terms and Conditions.

Click on Create account.

A confirmation link will be sent to your email address.

Proceed to ["HIQ Universe Log-in"](#) screen.

Reset forgotten password



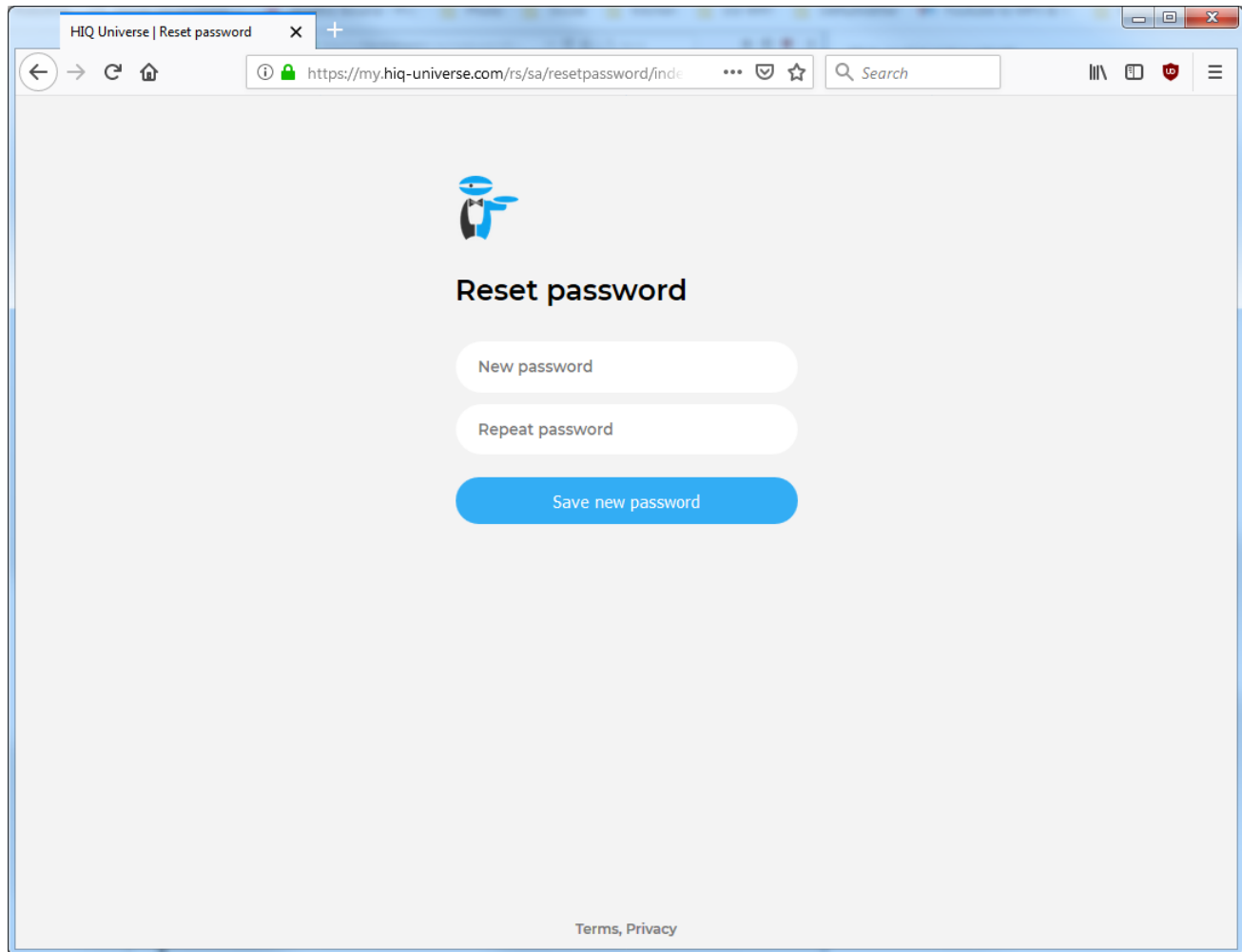
The screenshot shows a web browser window with the title "HIQ Universe | Reset password". The address bar displays the URL "https://my.hiq-universe.com/rs/sa/resetpassword/index". The page features a blue robot icon at the top center. Below the icon, the heading "Reset password" is displayed. A text input field labeled "Email address" is provided for user input. Below this field is a reCAPTCHA widget with a checkbox labeled "I'm not a robot" and a "reCAPTCHA Privacy - Terms" link. A prominent blue button labeled "Reset password" is positioned below the reCAPTCHA. At the bottom of the form area, there is a link that says "Create your account". A footer link "Terms, Privacy" is located at the very bottom of the page.

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.

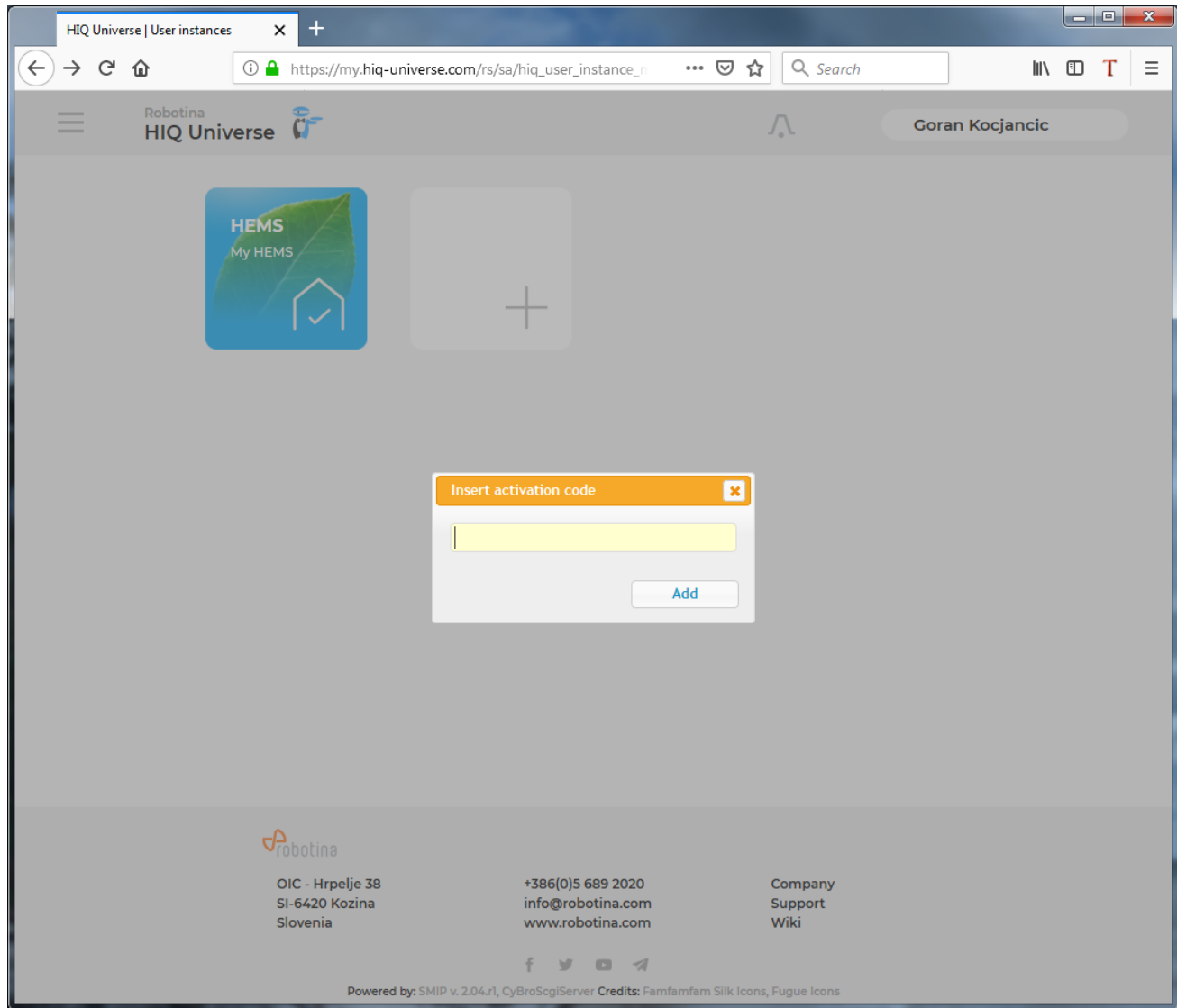


The screenshot shows a web browser window with the title "HIQ Universe | Reset password". The address bar displays the URL "https://my.hiq-universe.com/rs/sa/resetpassword/index". The page features a blue robot icon at the top center. Below the icon, the heading "Reset password" is displayed. There are two input fields: "New password" and "Repeat password". A blue button labeled "Save new password" is positioned below the input fields. At the bottom of the page, there is a link for "Terms, Privacy".

Enter new password and click on "Save new password".

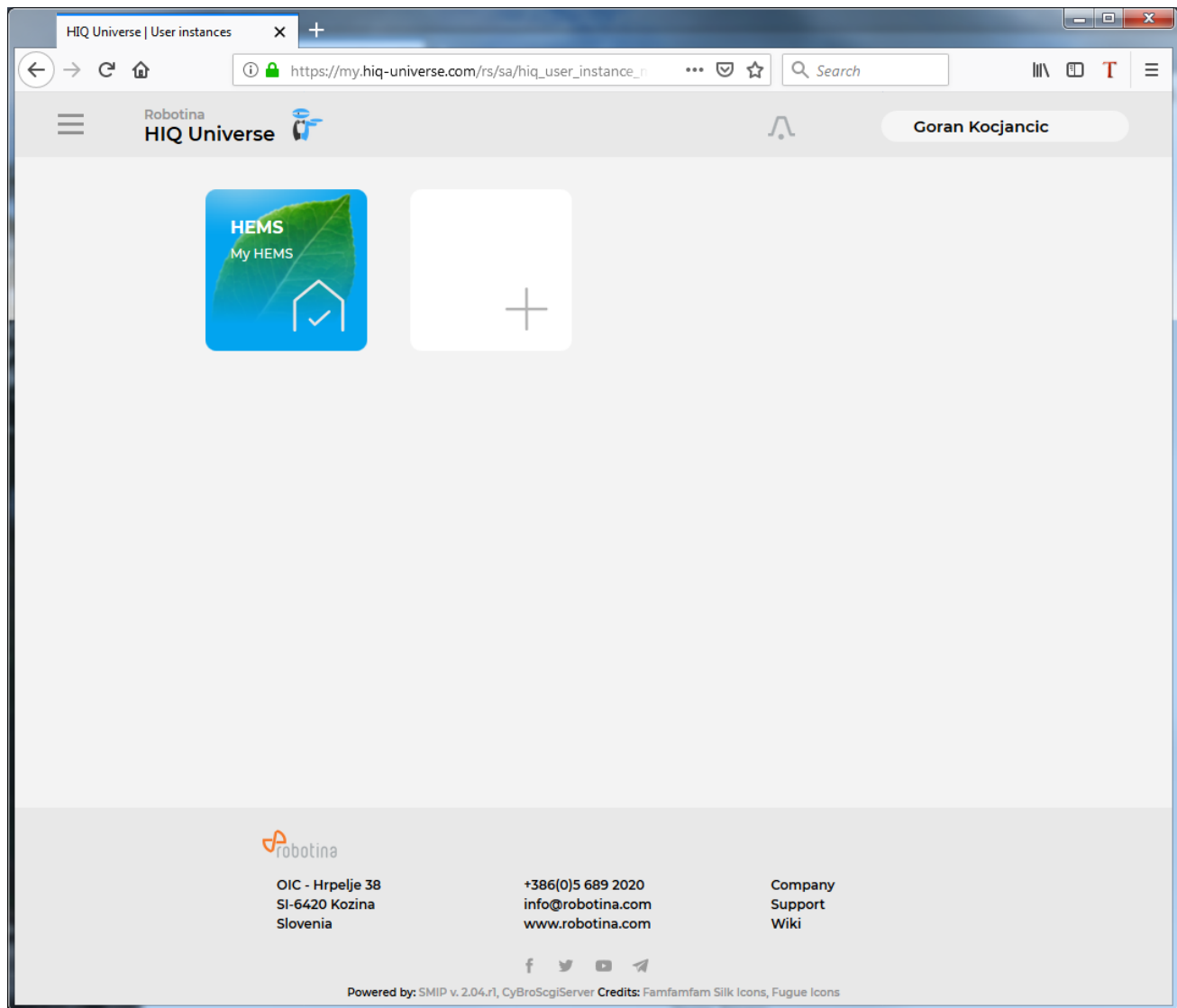
Proceed to ["HIQ Universe Log-in"](#) screen.

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.

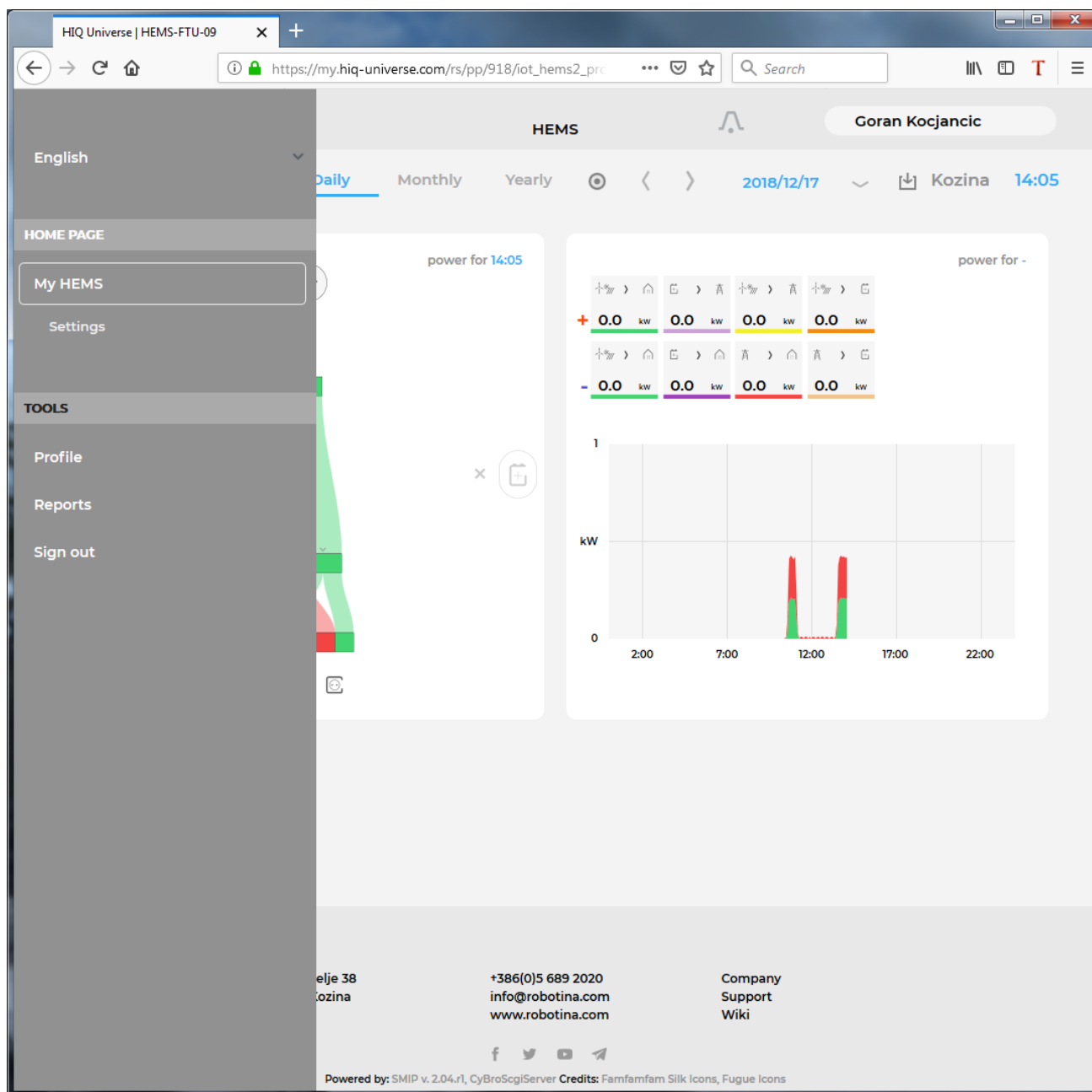
"[User profile set-up](#)" is invoked by clicking on user name on top right.

Main HEMS view



Main HEMS page consists of 3 sections:

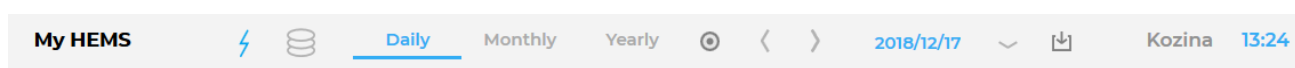
- "Title and view selection row" at the top
- "Power flow chart" on left side
- "Power and energy time-plot" on right



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

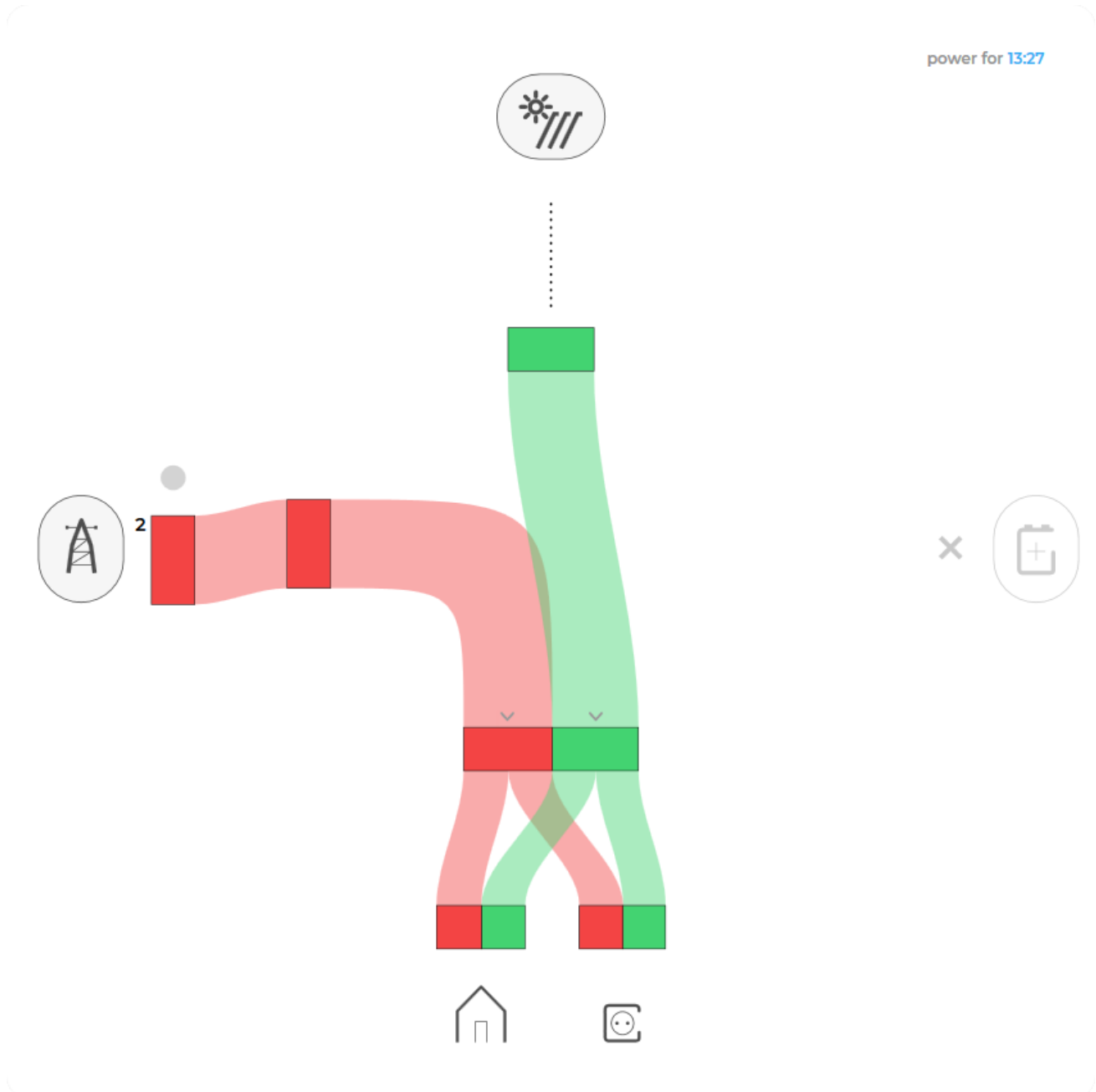
Title and view selection row



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



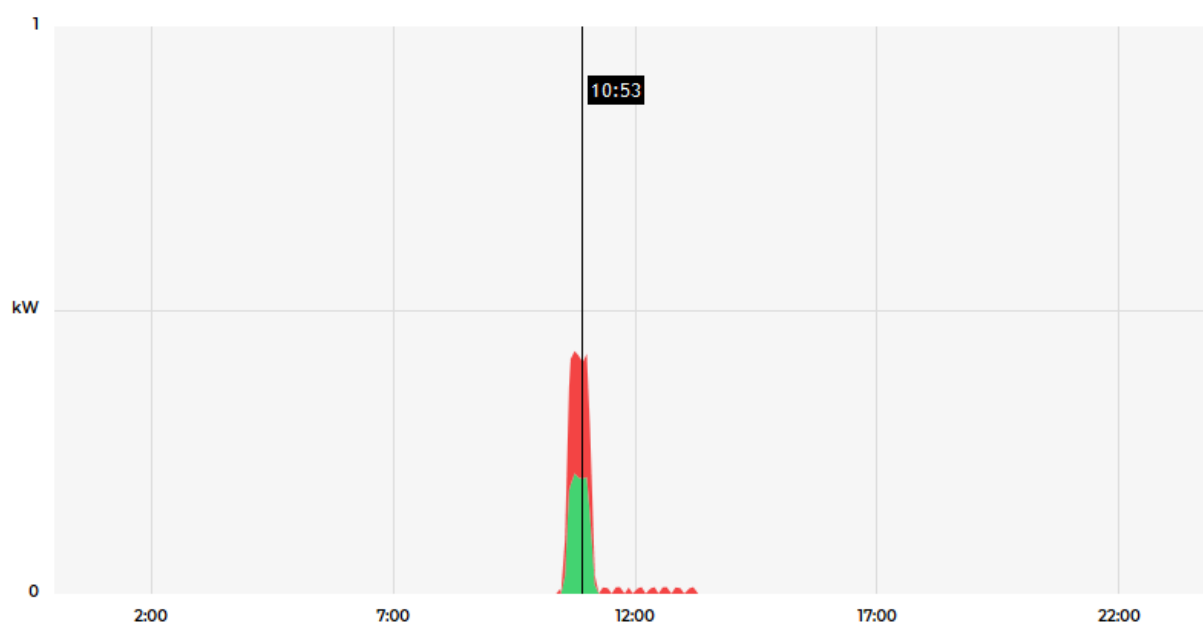
Displays actual power flow with:

- 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

power for 10:55



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

The screenshot shows a web browser window with the URL https://my.hiq-universe.com/rs/sa/user_profile/. The page header includes the 'Robotina HIQ Universe' logo and the user's name 'Goran Kocjancic'. The main content area is divided into four sections:

- Basic information:** A table showing user details.

| Basic information | |
|----------------------|--|
| Username | username |
| Created | 11/05/2018 01:34:41 PM CET from IP 89.212.246.66 |
| Previous login | 12/17/2018 12:31:16 PM CET from IP 89.212.246.66 |
| Last login | 12/17/2018 12:48:57 PM CET from IP 89.212.246.66 |
| Last password change | 12/17/2018 12:45:50 PM CET from IP 89.212.246.66 |
- Profile:** A form with fields for 'Main realm' (dropdown menu showing 'HEMS'), 'Full name' (text input with 'Goran Kocjancic'), 'Email address' (text input with 'goran.kocjancic@gmail.com'), and 'Timezone' (dropdown menu showing 'UTC+1:00 Europe/Amsterdam'). A 'Save changes' button is at the bottom.
- Foreign realms:** A section with a title and a horizontal line, currently empty.
- Password:** A form with three text input fields for 'Old password', 'New password', and 'Repeat password'. A 'Change password' button is at the bottom.

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 but you are not owner.

Password: fields for password changing.

HEMS settings

HIQ Universe | Settings

https://my.hiq-universe.com/rs/pp/918/iot_hems2_prc

Robotina
HIQ Universe

Goran Kocjancic

Settings

Device name: My HEMS

Location

Location name: Kozina

Location latitude:

Location longitude:

Energy price

Low tariff price (€/kWh): 0.100

High tariff price (€/kWh): 0.200

Feed-in tariff price (€/kWh): 0.100

Timeplots range

Electricity

Max daily power (kW): 1

Max daily energy (kWh): 1

Max monthly energy (kWh): 20

Cost

Max daily value (€): 10

Max monthly value (€): 100

Save settings

Share your device

Owner: goran.kocjancic@gmail.com

Guest account

Guest email address: Remove quest

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

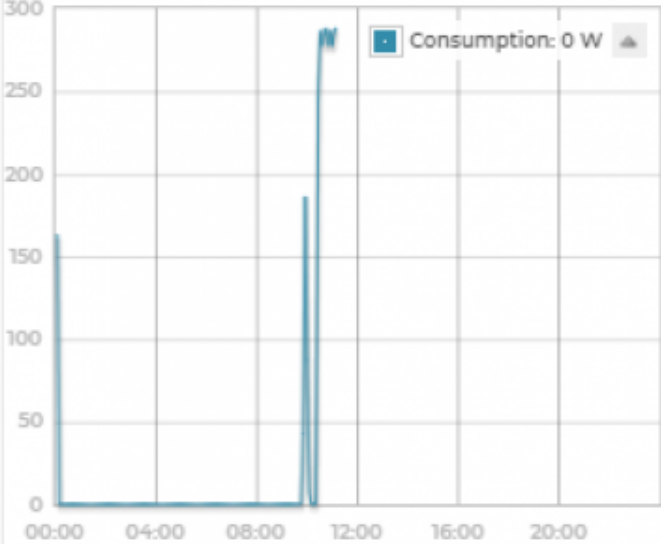
200

150

100

50

0



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.

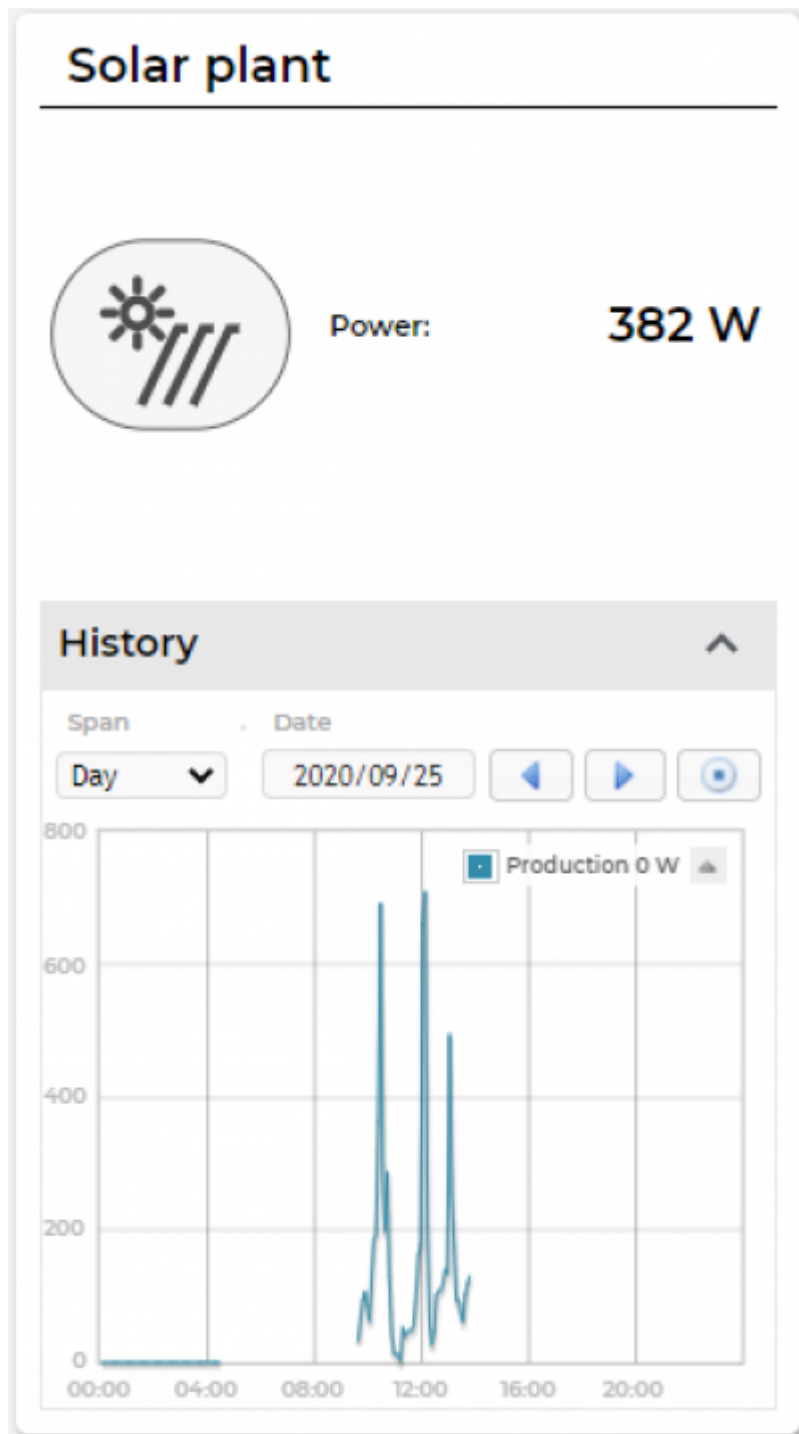
Example: from 14:00 and to 14:00 enables smart-grid service is always enabled.

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.

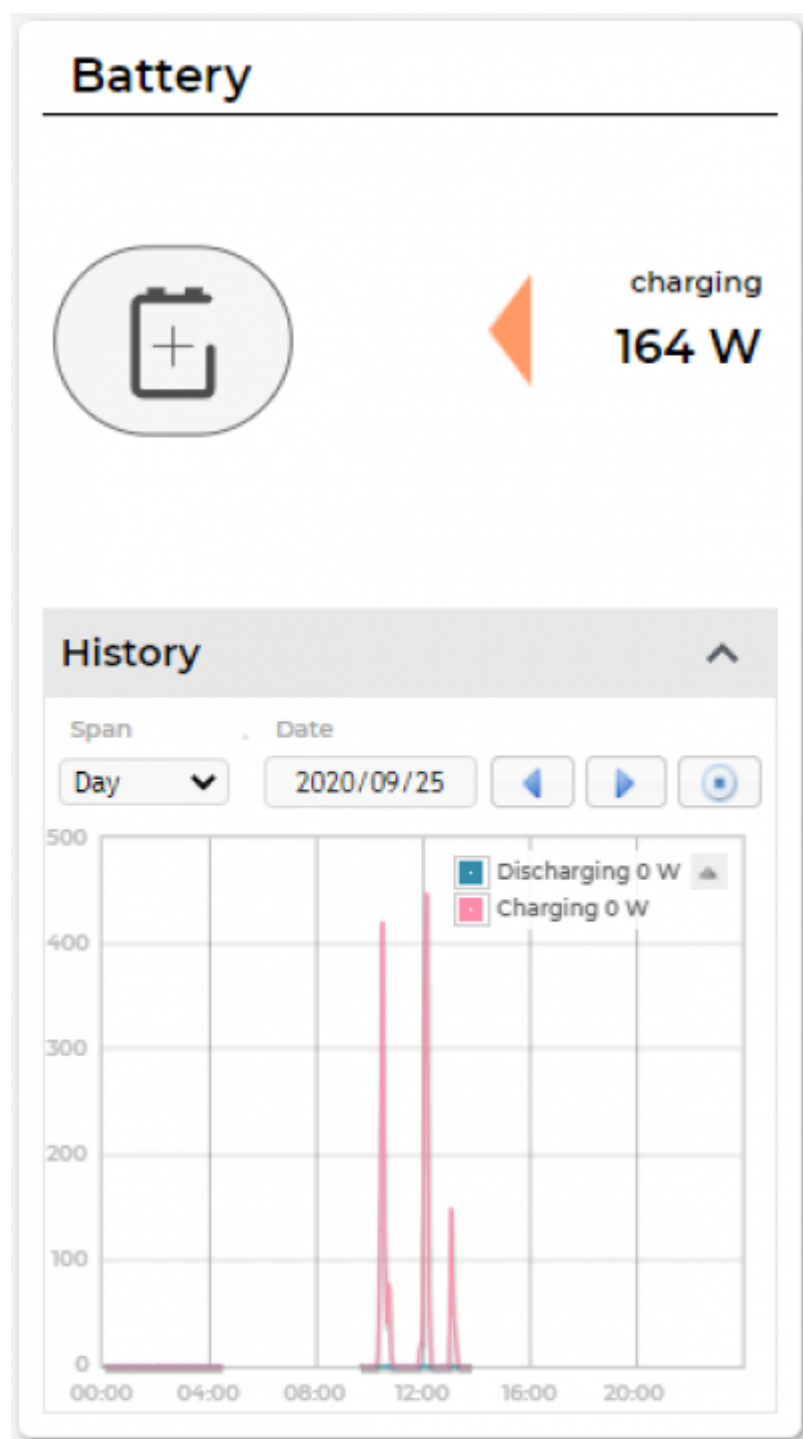
Power label contain the information of device production power in watts.

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.

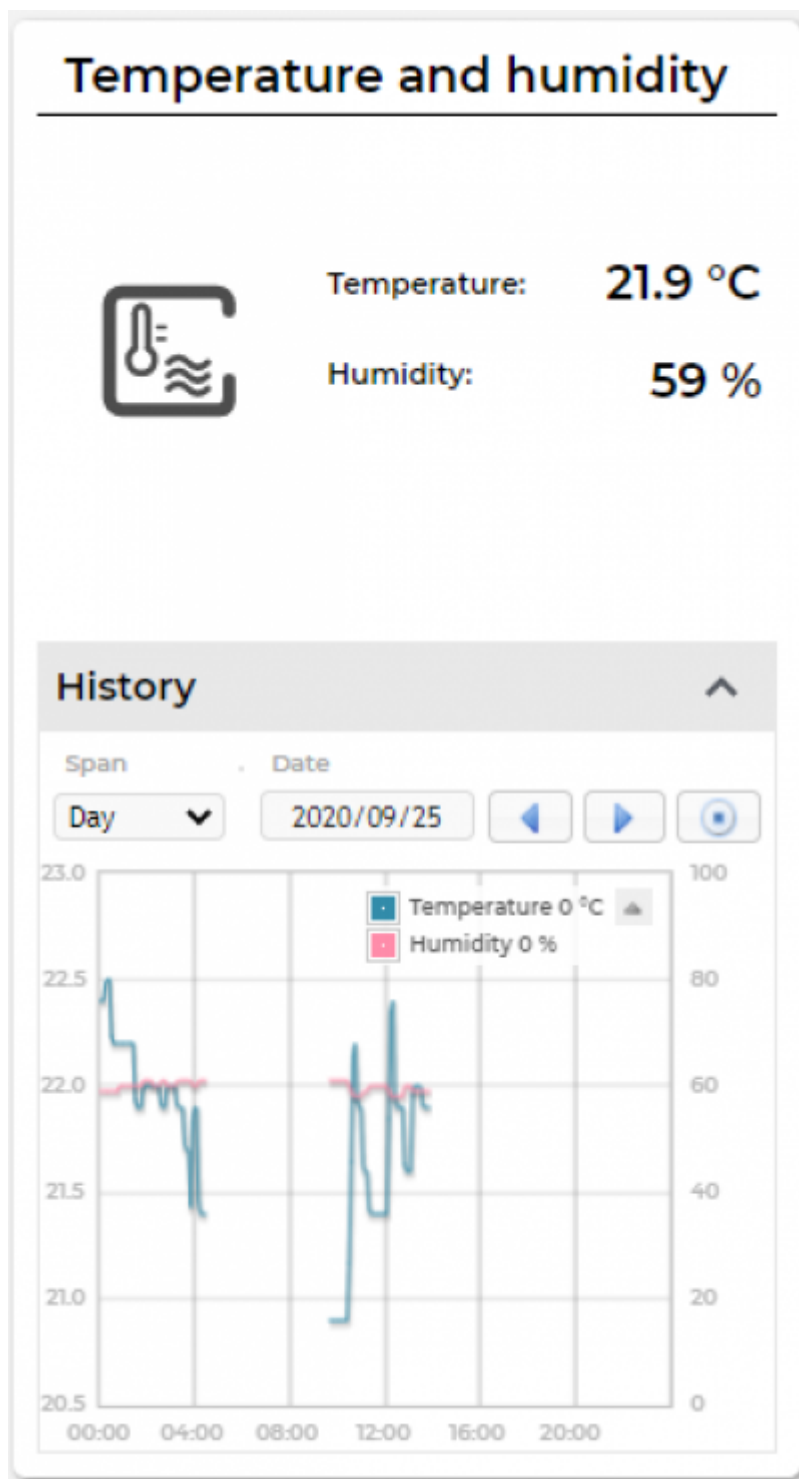
Power label contain the information of charging or discharging power in watts.

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



Sensors present devices or systems that measure various quantities, such as temperature, humidity. The left figure represent a combined temperature and humidity sensor.

General

General part contains:

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

Icon represent the type of sensor.

Temperature label contain the information of temperature measurement in °C.

Humidity label contain the information of relative humidity in %.

History

History part shows historical sensor measurements. The temporal range can be selected as daily, weekly, monthly or yearly.

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

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