

HIQ UNIVERSE

HIQ Universe is a cloud service that enables:

- An overview of current power consumption
- An overview of the history of electrical power and energy consumption and production
- An overview and control of connected devices

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

HIQ Universe Log-in

A screenshot of a web browser showing the login page for HIQ Universe. The browser's address bar displays the URL "https://my.hiq-universe.com/rs/sa/login/index". The page features a blue robot-like logo at the top center, followed by the text "Smart spaces". Below this, there 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 below the checkbox. Underneath the button, there are two links: "Forgot your password?" and "Create new account". At the bottom center of the page, there is a small link for "Terms, Privacy".

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



The screenshot shows a web browser window with the URL <https://my.hiq-universe.com/rs/sa/register/index>. The page features the HIQ logo at the top center, followed by the heading "Create new account". Below the heading are several input fields: "Choose your username", "Your first name and last name", "Email address", a time zone dropdown menu currently set to "UTC+2:00 Africa/Blantyre", "Create a password", and "Confirm your password". At the bottom of the form, there is a checkbox for "I'm not a robot" with a reCAPTCHA logo, another checkbox for "Accept Terms and Conditions", and a blue "Create account" button.

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

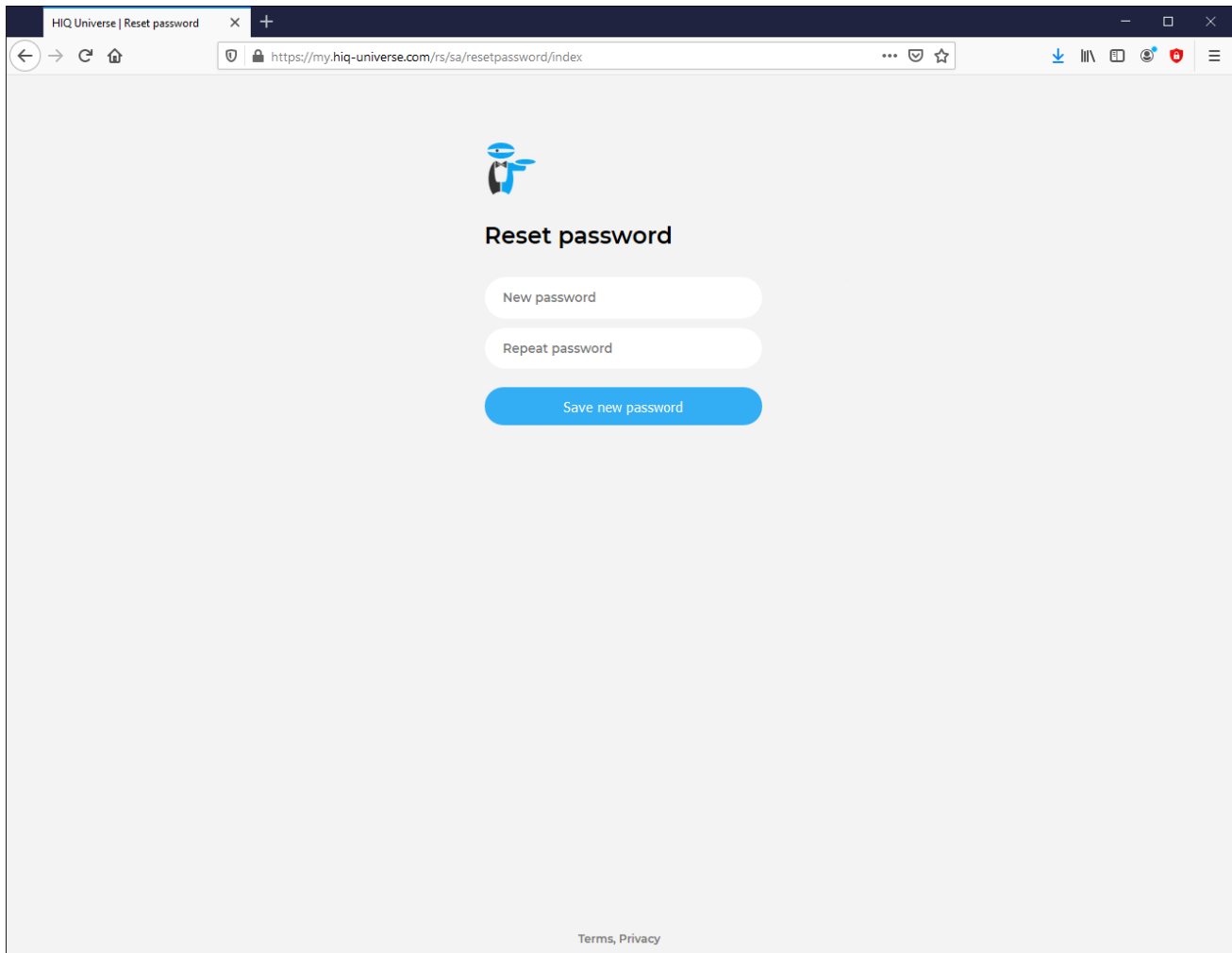


In the appropriate field, enter email address.

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 HEMS activation code from “HEMS Quick Set-Up Guide” found in HEMS box.



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

Title and view selection row

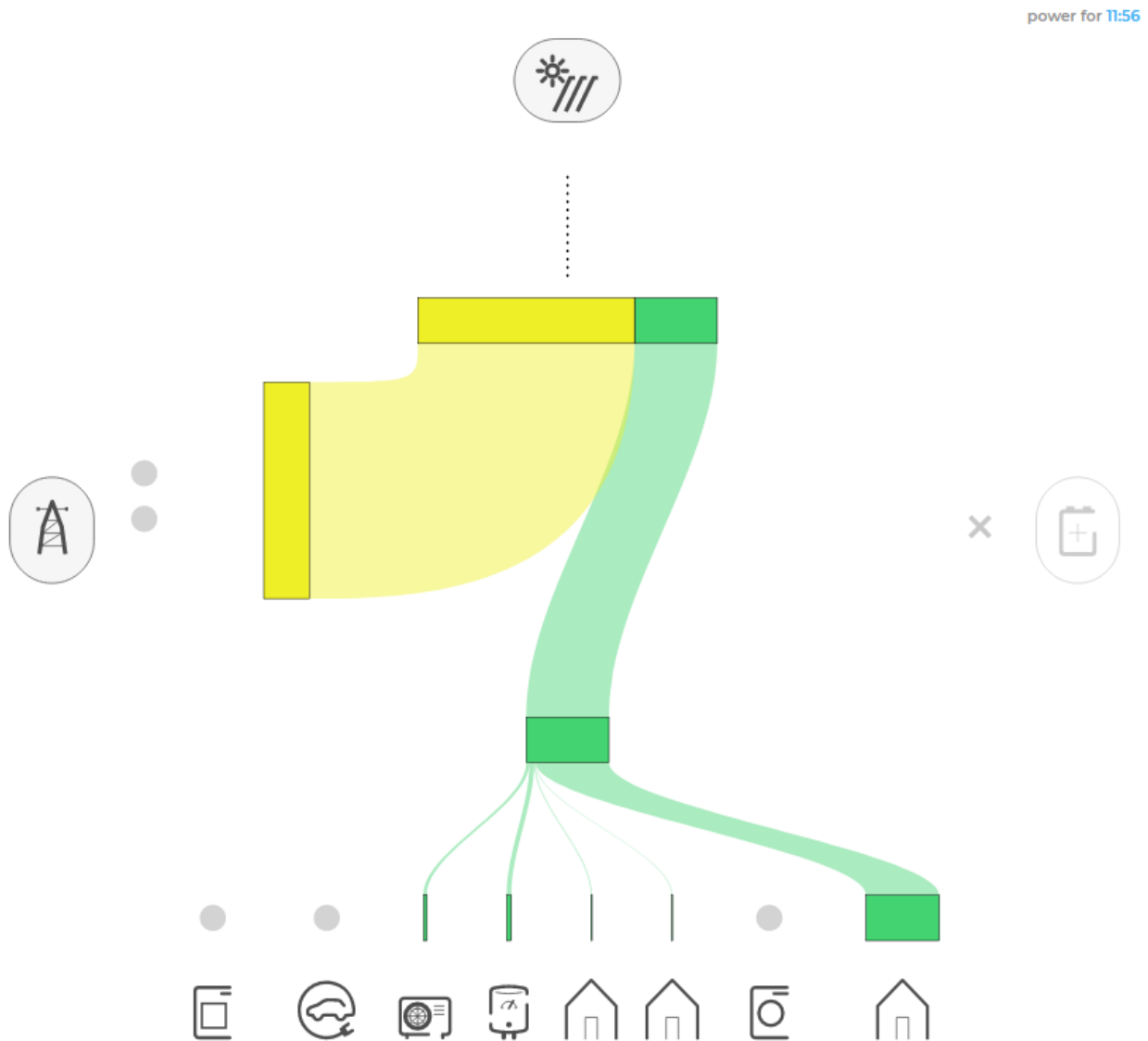


From the left:

- **Application name** → HEMS name
- **Lighting icon** → time-plot displays energy or power
- **Currency icon** → time-plot overlays currency graph
- **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

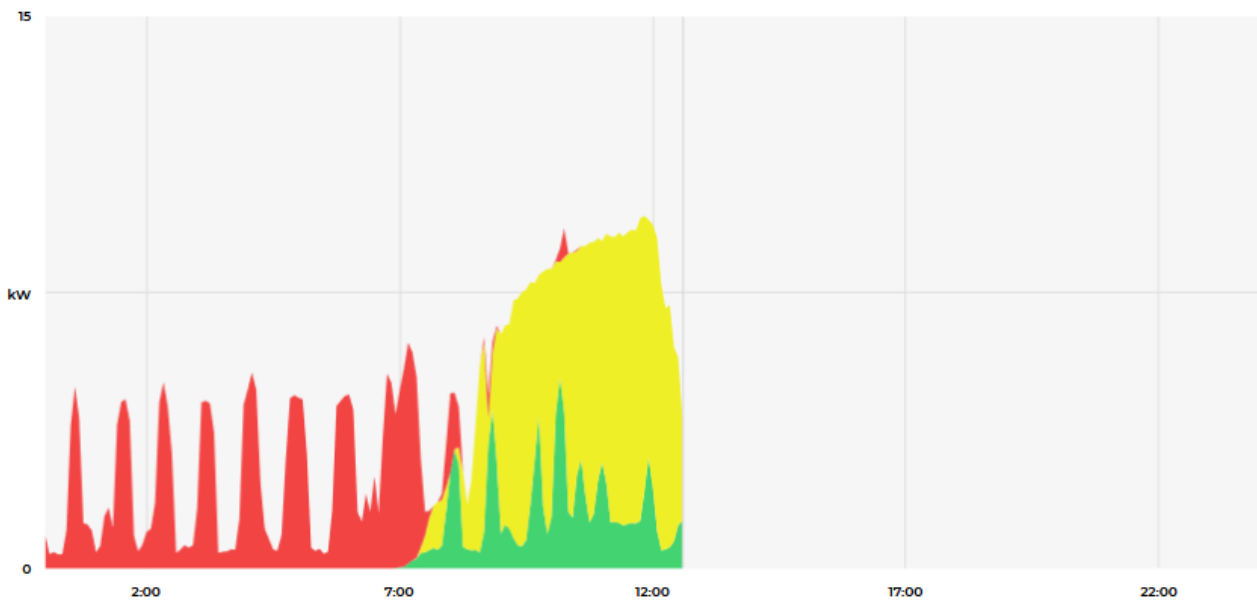
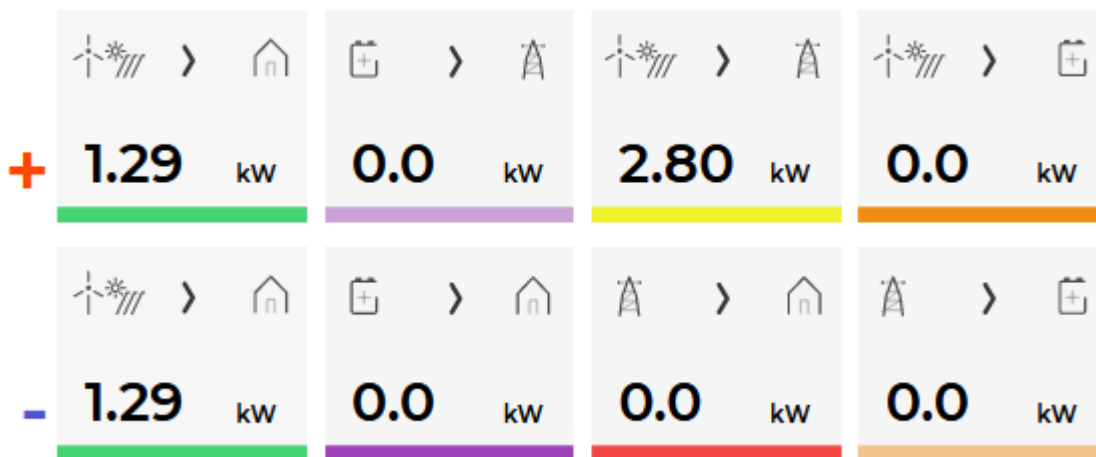


Displays actual power flow with:

- **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.

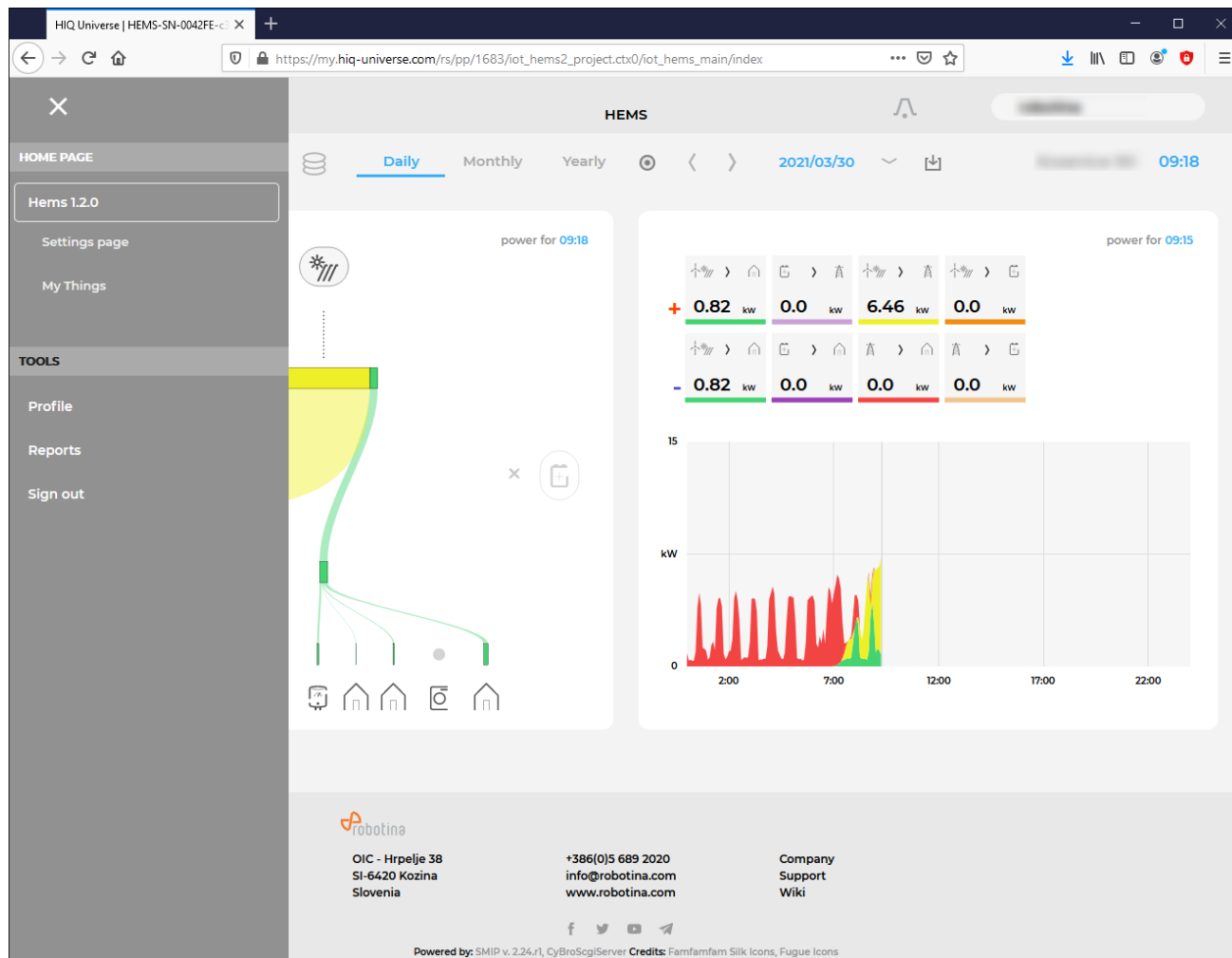
Unused items are soft greyed out with X. Items without actual power are displayed as dots. Clicking on a devices displays current power flow for selected device.

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.

Side menu



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:

- **Home page** → section with all your subscribed HIQ Universe devices and services
 - Hems 1.2.0 → "Main HEMS view"
 - Settings page → "HEMS settings"
 - My Things → "My Things"
- **TOOLS** → section with general site tools
 - Profile → "User profile set-up"
 - Reports → "System reports"
 - Sign out → Log off from HIQ Universe

HEMS settings

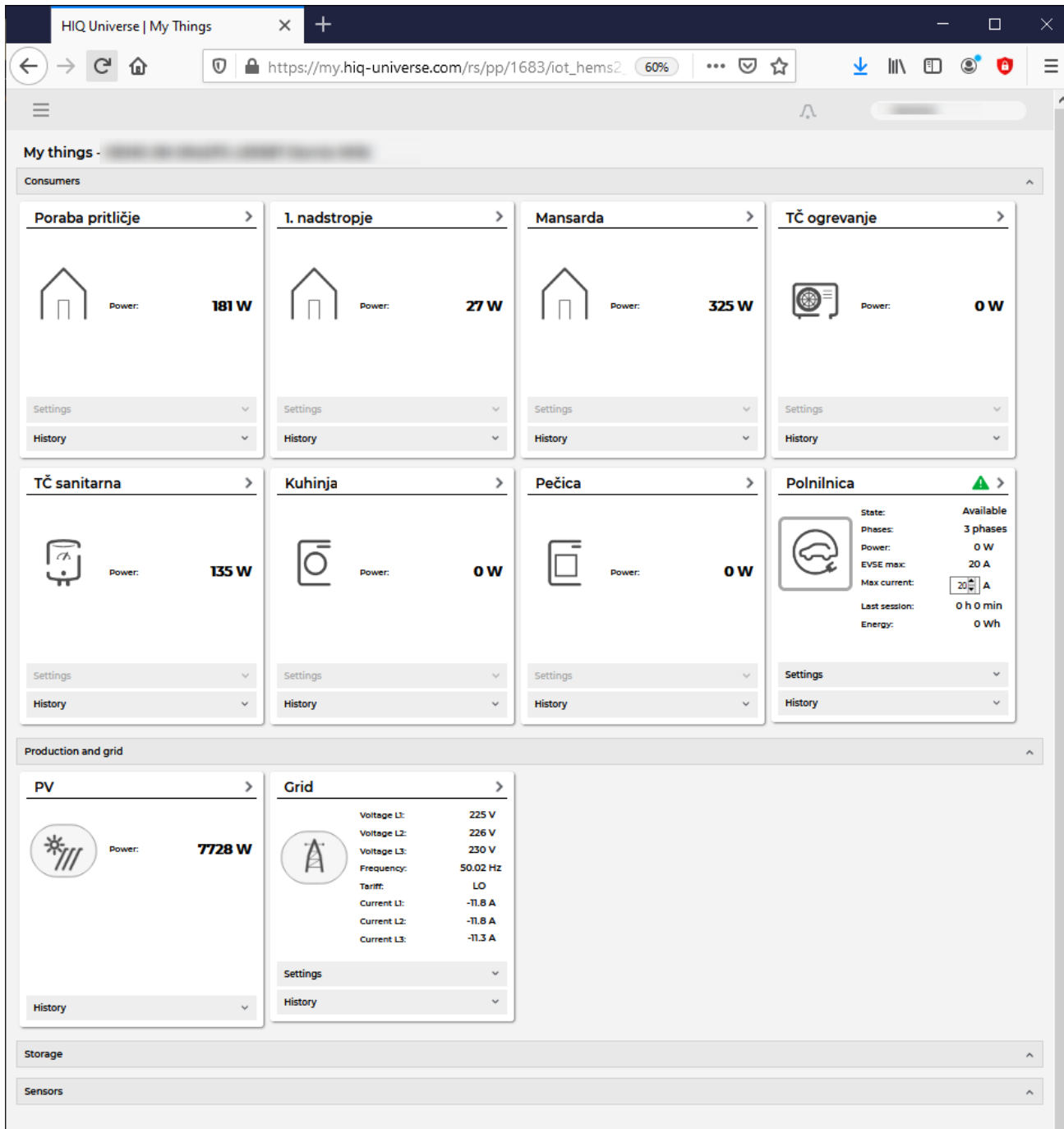


Basic settings and info about HEMS.

Sections:

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

My Things



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

- **Consumers**
 - Up to 8 consumers
 - On/Off control
 - Overview of energy and status
 - Settings:
 - Manual override (Minute countdown of manual control until cloud can perform optimizations again)
 - Cloud optimizations with timetable
 - Current limiter with priorities
 - History:

- Power overview
- **Production and grid**
 - Overview of grid and up to 3 other energy sources
- **Storage**
 - Overview of up to 2 battery sources
- **Sensors**
 - Supported for temperature and humidity sensor

Consumers

Polnilnica



State: Available
Phases: 3 phases
Power: 0 W
EVSE max: 20 A
Max current: 20 A
Last session: 0 h 0 min
Energy: 0 Wh

Settings

Manual override:

Smart grid

Cloud optimization:

Smart grid status: Idle

Enabled: from: 0 : 0
to: 0 : 0

Max duration: 15 min

Max request: 1

Suspend time: 15 min

Current limiter

Limiter priority: limit first min

History

Span: Day Date: 2021/03/31

Time	Phase L1 (W)	Phase L2 (W)	Phase L3 (W)	SUM (W)
00:00	0	0	0	0
04:00	0	0	0	0
08:00	0	0	0	0
12:00	0	0	0	0
16:00	0	0	0	0
20:00	0	0	0	0

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 EV charger, 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 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.
- **Phases** label contain the information of EV utilized phases.
- **Power** label contain the information of device consumption power in watts.
- **EVSE max** label contains EVSE max charging current,
- **Max current** label is user desired max charging current, which can be changed by user.
- **Last session** label contains the information of charging duration and energy.

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.
- **Cloud optimization** enables or disables smart grid service.
- **Smart grid status** label shows smart grid operation state with the following states:
- **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.
- **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).
- **Limiter priority** setting can be no limiter, limit last, limit second and limit first. If DCL is enabled and inactive a green warning icon is displayed on the card. If DCL is active the icon turns yellow and if DCL is disabled there is no icon on the card. Limit first is a group of devices that are dynamically regulated first if the main grid current is over the preset threshold. If main grid current is still over the preset threshold, regulating other groups will follow with limit second and after that with limit last.

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.

Production and grid

Grid



Voltage L1: 230 V
Voltage L2: 231 V
Voltage L3: 231 V
Frequency: 50.00 Hz
Tariff: LO
Current L1: -11.3 A
Current L2: -11.2 A
Current L3: -7.8 A

Settings

Current limiter

Max current L1: 25 A
Max current L2: 25 A
Max current L3: 25 A

History

Power & Energy Current

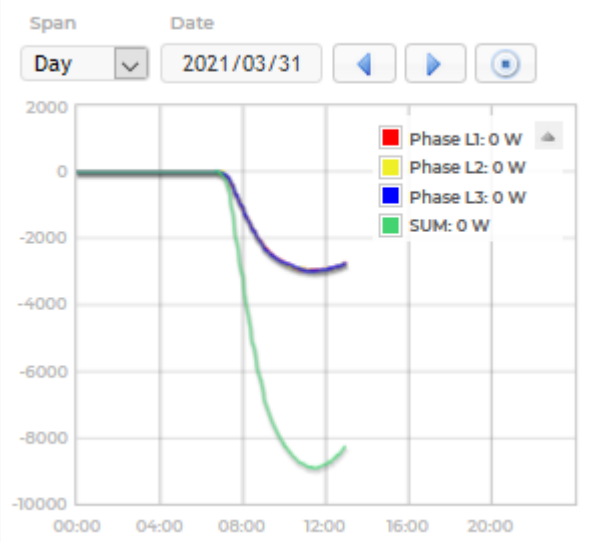


PV elektrarna



Power: 7961 W

History



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 part contains:

- **Name** of a plant, which can be changed by user.
- **Icon** represent the type of producer.
- **Voltage** represents voltage of the grid.
- **Frequency** represents frequency of the grid.
- **Tariff** represents active tariff of the grid.

- **Current** represents current of the grid.
- **Power** label contain the information of device production power in watts.

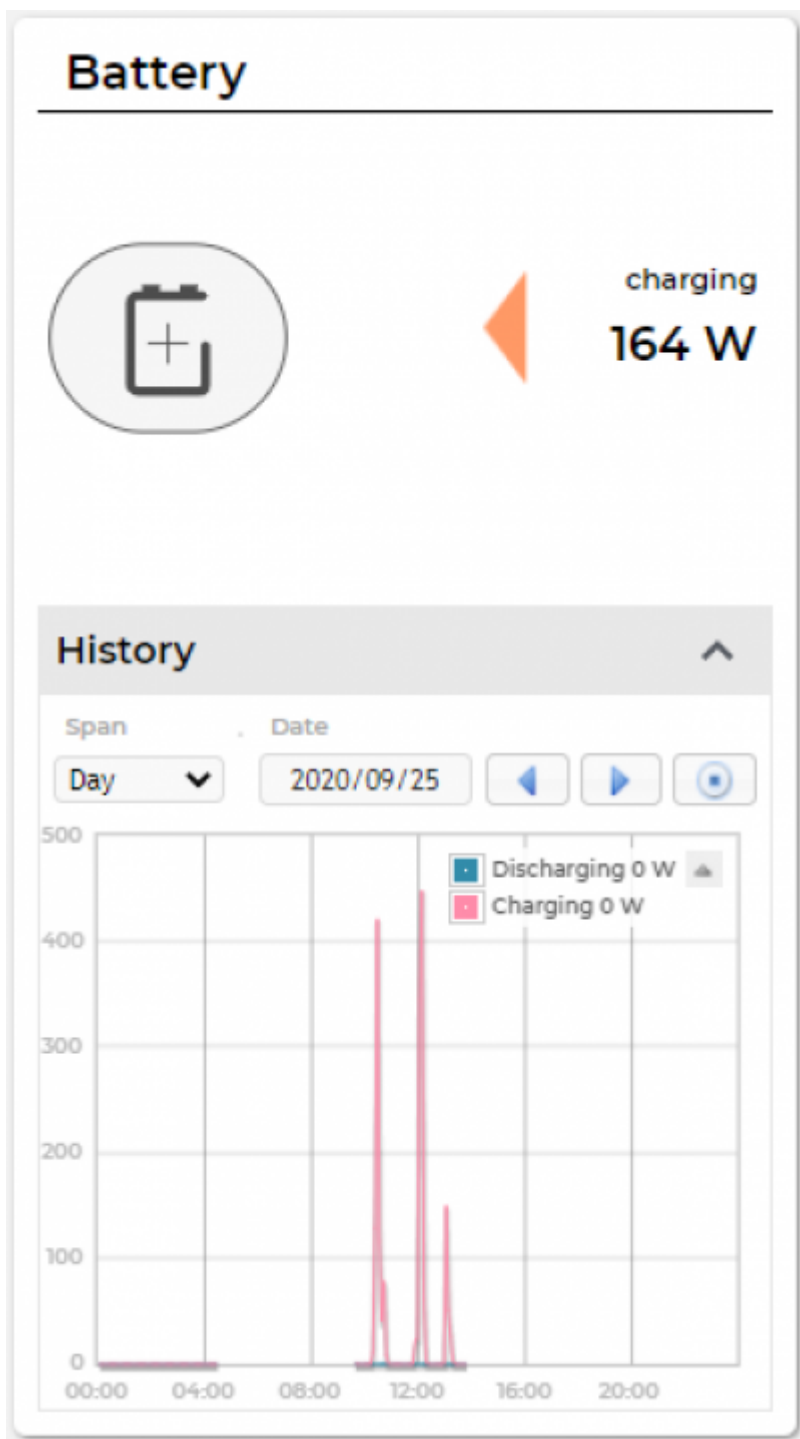
Settings:

- **Dynamic Current Limiter** represents grid current threshold. The DCL will manage devices to keep the current under this threshold. Settings are per phase.

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. Grid has additional current history.

Storage



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

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 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.

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
- User language

Profile section:

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

Password:

- Fields for password changing

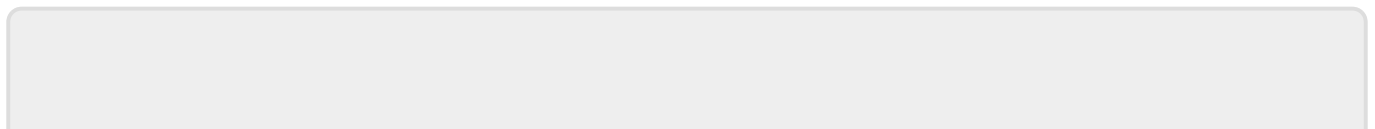
Persistent logins:

- Data of access from persistent logins

System Reports



System generated reports can be found here.



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