# 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

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	Smart spaces	
	Username or email	
	Password	
	Stay signed in	
	Sign in	
	Forgot your password? Create new account	
	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**

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	Your first name and last name	e				ш
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	Confirm your password					
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	Accept Terms and Co	nditions				
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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.

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	Reset password		
	New password		
	Repeat password		
	Save new password		
	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  $\rightarrow$  section with all your subscribed HIQ Universe devices and services
  - MyHems → "Main HEMS view"
    - Settings → "HEMS settings"
- TOOLS  $\rightarrow$  section with general site tools
  - Profile  $\rightarrow$  "User profile set-up"
  - $\circ$  Sign out → Log off from HIQ Universe

#### Title and view selection row

My HEMS	4	8	Daily	Monthly	Yearly	۲	<	$\rangle$	2018/12/17	$\sim$	[↓]	Kozina	13:24

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

## Power flow chart

# power for 13:27

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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

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HIQ Universe	ជិ	Λ.	Goran Kocjancic			
Basic information						
Username Created Previous login Last login Last password change	username 11/05/2018 01:34:41 PM CET from IP 89.212.246.66 12/17/2018 12:31:16 PM CET from IP 89.212.246.66 12/17/2018 12:48:57 PM CET from IP 89.212.246.66 12/17/2018 12:45:50 PM CET from IP 89.212.246.66					
Profile						
Main realm Full name Email address Timezone	HEMS   Goran Kocjancic  goran.kocjancic@gmail.com  UTC+1:00 Europe/Amsterdam					н
Save changes Foreign realms						
Password						
Old password New password Repeat password						
Change password						

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

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- HIQ Universe	Ci i i i i i i i i i i i i i i i i i i	.√ <sub>e</sub> ∖.	Goran Kocjancić		
Settings					
Device name	My HEMS				
Location					
Location name	Kozina				
Location latitude					
Location longitude					. 11
Energy price					
Low tariff price (€/kWh)	0.100				=
High tariff price (€/kWh)	0.200				
Feed-in tariff price (€/kWh)	0.100				
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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					
Save settings					
Share your device					
Owner	goran.kocjancic@gmail.com				
Guest account					
Guest email address Remo	ve quest				-

#### Sections:

- Settings:
  - $\circ\,$  Device name
  - $\circ\,$  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

Within the group 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.

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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

Cloud optimization enables or disables smart grid service.

#### • Smart grid status

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

- b
- Idle the device is not in activation
- Executing the device is in activation
- Enabled
- Max duration in a day
- Max request in a day
- Suspend time

## Production

#### Storage

#### Sensors

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