

# HEMS G2 Configurator

hems\_configurator\_v1.0.4.exe

## home

Basic system overview.



1. Grid		
>	From grid	Tariff (LO, HI, D-LO, D-HI) and power from grid in W Imported energy by tariff in Wh
<	To grid	Power exported to grid in W Exported energy in Wh
2. Plants		
<	Produced	Produced power in W and energy in Wh
>	Consumed	Consumed power in W and energy in Wh
3. Storage systems		
<	Sourced	Power in W and energy in Wh sourced from storage (battery)
>	Stored	Power in W and energy in Wh stored (to battery)
<b>bargraph and %<sup>1</sup></b>	SOC	Battery State Of Charge
4. Consumers		
>	Consumed	Consumed power in W and energy in Wh

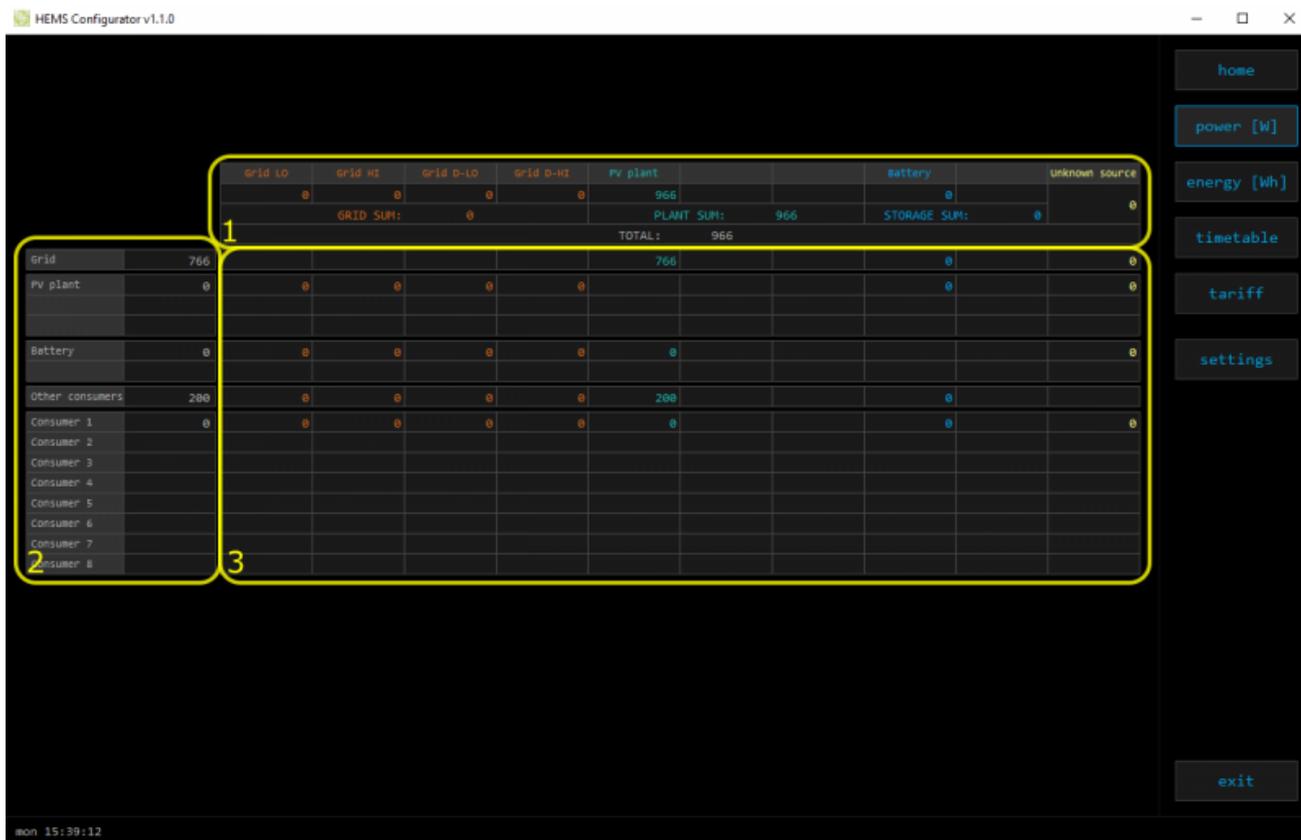
<b>[]</b>	Status	Output status for managed consumers
<b>bargraph</b> <sup>2</sup>	Analog out	Analog output value
<b>click</b>	Toggle	Click in frame toggles managed consumers output
<b>long-press</b> <sup>2</sup>	Set analog	Long press on first consumer pops-up dialog for analog value set
<b>5. Unknown source</b>		
>	Sourced	Power in W and energy in Wh from unknown source
 Accumulate also all differences caused by power-sensor inaccuracy		
<b>6. Other consumers</b>		
>	Consumed	Consumed power in W and energy in Wh by other (not measured) consumers
<b>7. Temperature and humidity</b>		
	Temperature	Temperature in °C
	Humidity	Humidity in % RH

<sup>1</sup> only for eStore

<sup>2</sup> only for first managed consumer

# power

Overview of current power distribution by source / consumer.



<b>1. Sourced power</b>
Sourced power for each source
Sums per source type
Total of all sourced power
<b>2. Consumed power</b>
Power for each consumer
<b>3. Power distribution</b>
Partial distributed power

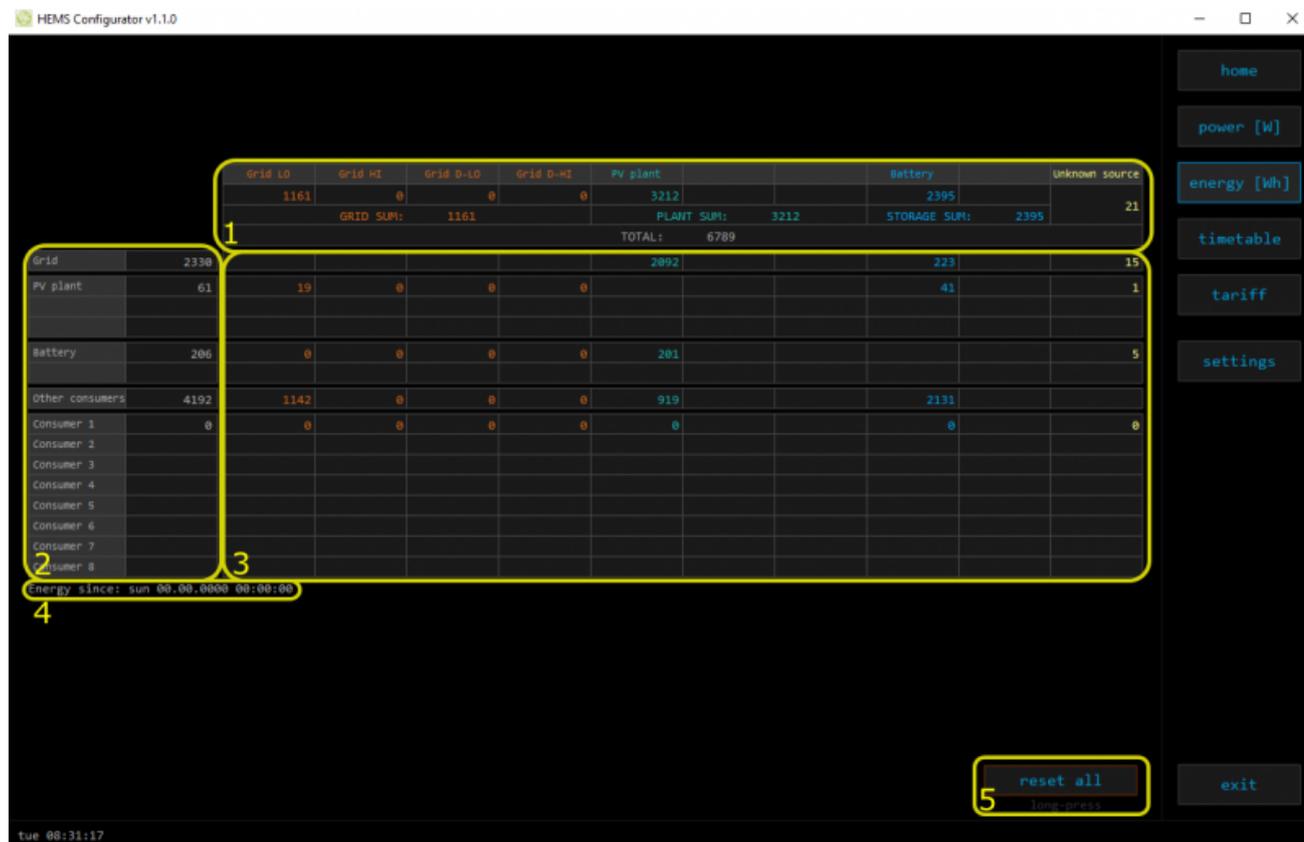
The screenshot shows the HEMS Configurator v1.1.0 interface. A table displays power distribution data. A yellow box labeled '1' highlights the 'pv plant' column, and another yellow box labeled '2' highlights the 'plant' row. A sidebar on the right contains navigation buttons: home, power [W], energy [Wh], timetable, tariff, settings, and exit. The bottom left corner shows the date and time: 'mon 15:39:12'.

	grid LO	grid HT	grid D-LO	grid D-HT	pv plant	battery	unknown source
	0	0	0	0	966	0	0
					PLAN	SUM: 966	STORAGE SUM: 0
					GRID SUM:		
					TOTAL:	966	
Grid	766				766	0	0
2 plant	0	0	0	0		0	0
Battery	0	0	0	0	0		0
Other consumers	200				200	0	0
Consumer 1	0	0	0	0	0	0	0
Consumer 2							
Consumer 3							
Consumer 4							
Consumer 5							
Consumer 6							
Consumer 7							
Consumer 8							

- 1. Sourced power distribution**  
How sourced power is consumed by each consumer
- 2. Consumed power distribution**  
Who sources consumed power

# energy

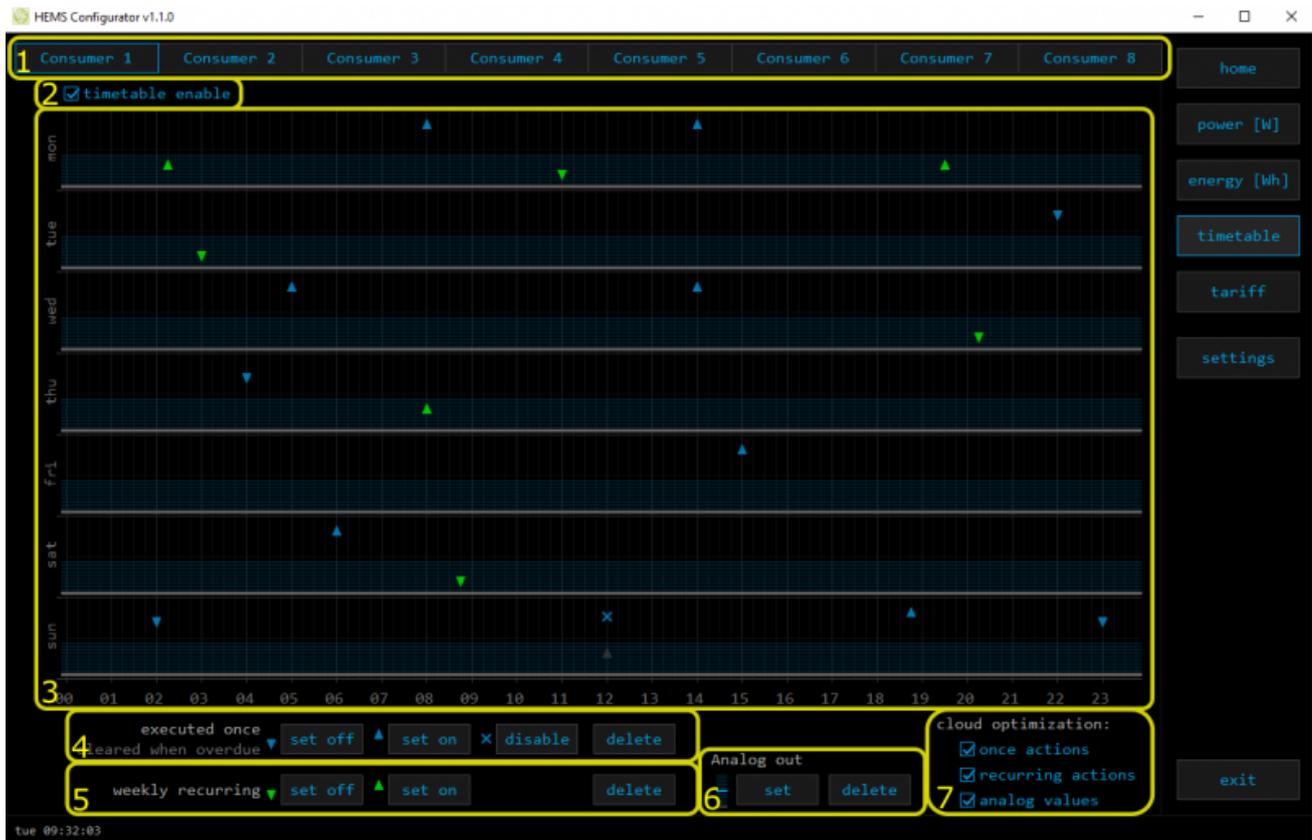
Energy overview of a given time distributed by sources / consumers.



<b>1. Sourced energy</b>
Sourced energy for each source
Sums per source type
Total of all sourced energy
<b>2. Consumed energy</b>
Energy for each consumer
<b>3. Energy distribution</b>
Partial distributed energy
<b>4. Energy since</b>
Date and time since energy is recorded
<b>5. Reset all</b>
Long-press to reset all energy counters

# timetable

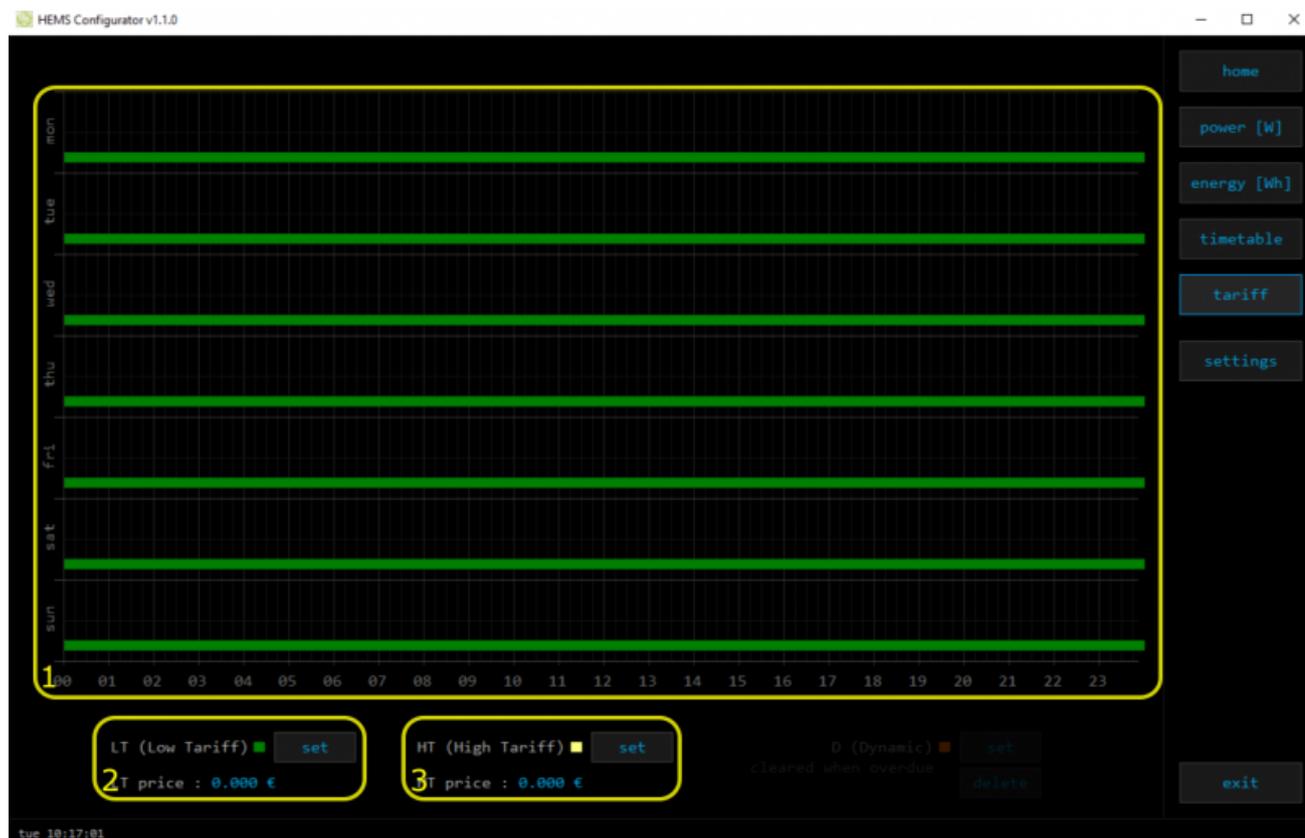
Weekly timetable for managed consumers.



<b>1. Managed load menu</b>
Switch between managed loads
<b>2. Enable checkbox</b>
When un-checked timetable is not executed
<b>3. Events grid</b>
Events displayed in weekly grid (15 min resolution)
Click to select time and set event by clicking buttons below
<b>4. Once actions (top priority timetable actions)</b>
Actions are executed and then automatically cleared.
“Disable” action will just disable recurring action.
<b>5. Recurring actions (low priority actions)</b>
Actions are executed each week.
<b>6. Analog out</b>
Action to set analog output. Analog actions are recurring.
<b>7. Cloud optimization</b>
When enabled (checked) cloud optimization is enabled.

# tariff

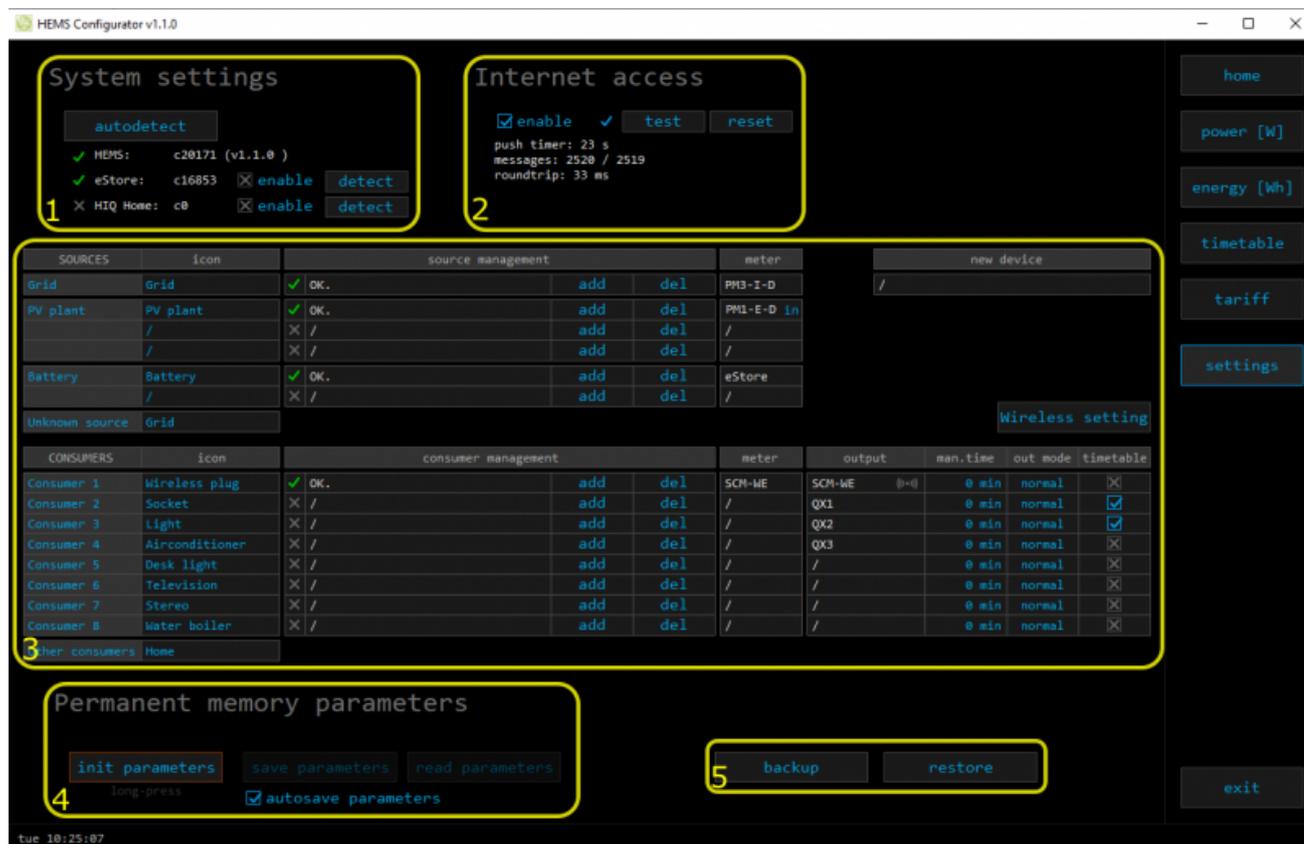
Weekly tariff timetable for grid energy per tariff distribution.



<b>1. Tariff grid</b>
Graphical weekly timetable with tariffs.
Click to select term, click-and-drag to select multiple terms.
<b>2. Low tariff</b>
Set low tariff for selected terms.
<b>3. High tariff</b>
Set high tariff for selected terms.

# settings

Easy and intuitive system setup.



1. System settings	
[ autodetect ]	Click to find HEMS G2 in local network
eStore	c..... eStore serial number (automatically detected or can be entered manually).
	[ ] enable When checked HEMS will read Grid, first plant and first Storage directly from eStore (so there is no need to duplicate power-sensor).
	[detect] eStore address is cleared and new eStore can be detected.
HIQ Home	c..... HIQ Home serial number (automatically detected or can be entered manually).
	[ ] enable When checked HEMS will read Grid power and energy from HIQ Home (so there is no need to duplicate power-sensor).
	[detect] HIQ Home address is cleared so new can be detected.
2. Internet access	
[ ] enable	When checked HEMS is automatically connected to HIQ Universe cloud service. Connection is initialized by HEMS system and uses UDP packets on port 8442.
[test]	New "push" message is sent to server and roundtrip time is rechecked.
[reset]	Clear messages counts and roundtrip time
push timer	Timer in s for send "push" message to server

messages	Sent "push" messages / responses counters	
roundtrip	Time in ms between sent push message and response.	
<b>3. Sources and Consumers settings table</b>		
SOURCES	Source name	
icon	Source icon	
source management	Source power-sensor management	
	message	Messages regarding source power-sensor
	add	Associate new power-sensor to source
	del	Disassociate power-sensor from source & configure it as new power-sensor
meter	Source power-sensor type	
	in/ex	Power plant connected <sup>1</sup>
new device	Power-sensor configured as new one detected or wireless module configuration <sup>2</sup>	
Wireless setting	Setting up wireless modules	
CONSUMERS	Consumer name	
icon	Consumer icon	
consumer management	Consumer meter and output management	
	message	Messages regarding consumer meter and output
	add	Associate new power-sensor or new wireless module <sup>2</sup> to consumer
	del	Disassociate power-sensor or wireless module <sup>2</sup> from consumer & configure it as new power-sensor or new wireless module <sup>2</sup>
meter	Consumer meter type	
output	Consumer output type	
	<<>>	Setting repeater level for wireless modules <sup>2</sup>
man. time	Manged consumer manual override timer	
out mode	Manged consumer output mode (normal or inverted)	
timetable	Manged consumer timetable execution enabled	
<b>4. Permanent memory parameters</b>		
[init parameters]	Init all parameters to default value	
[save parameters]	Save all parameters to permanent memory	
[read parameters]	Read all parameters from permanent memory	
[ ] autosave parameters	Parameters will be automatically saved to permanent memory in 15 minutes after last parameter change	
<b>5. Backup / Restore to PC</b>		
[backup]	Backup all parameters to PC	
[restore]	Restore all parameters from PC backup	

<sup>1</sup> only for the first power plant

<sup>2</sup> wireless setting must be enabled

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