

# HEMS G2 Configurator

## HEMS Configurator

### 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



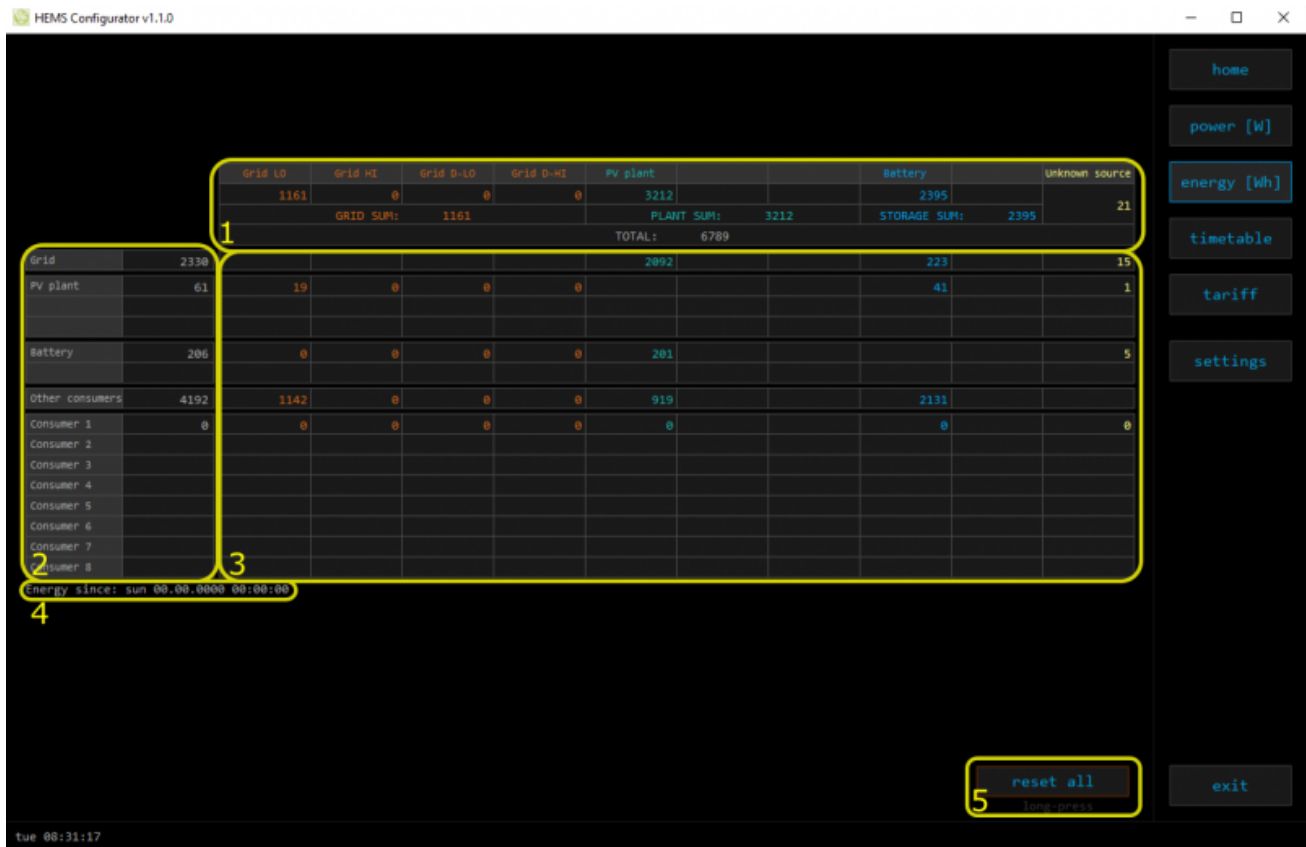
The screenshot shows the HEMS Configurator v1.1.0 interface. A table displays power distribution data. A yellow box labeled '1' highlights the 'pv plant' column, and another yellow box labeled '2' highlights the 'plant' row. A vertical line is drawn through the 'pv plant' column.

	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

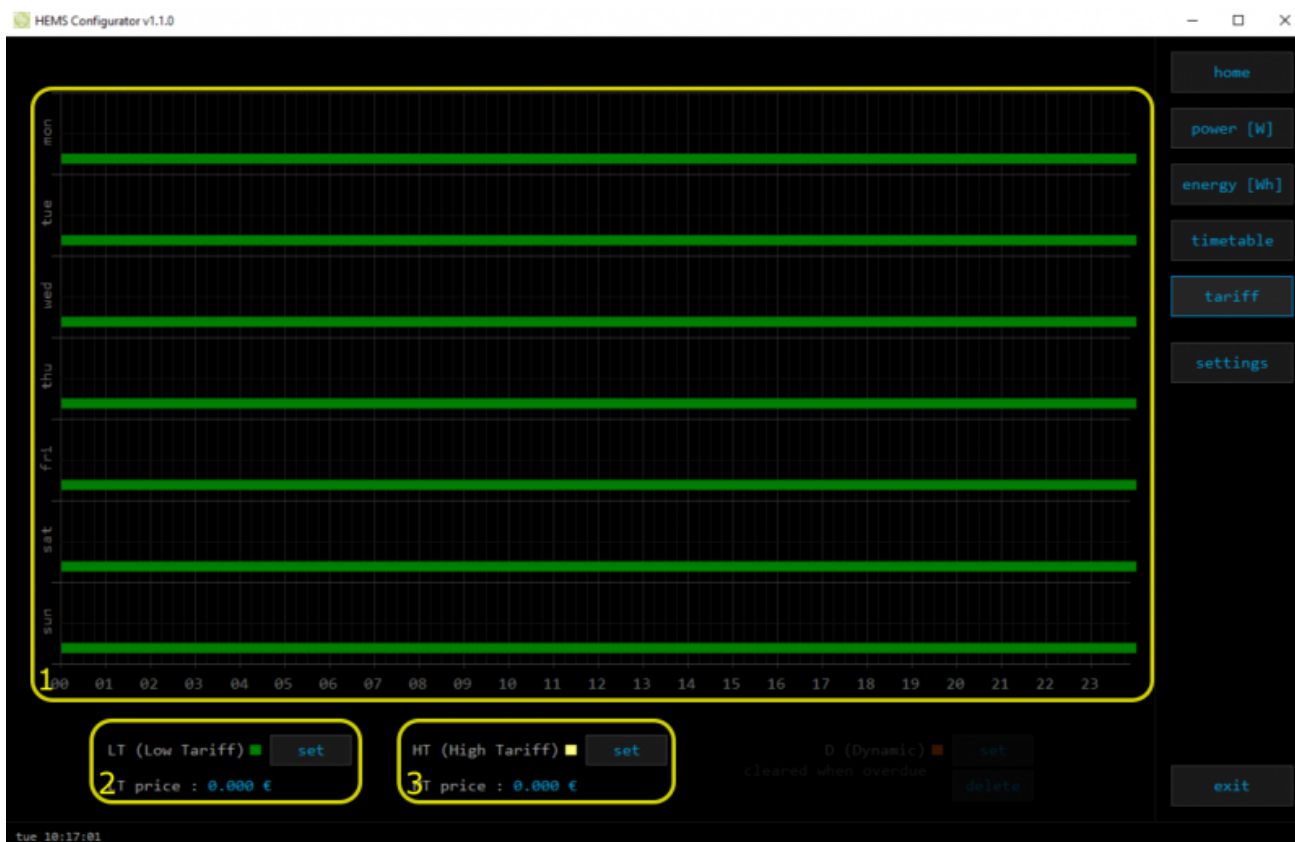
Weekly timetable for managed consumers.



<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

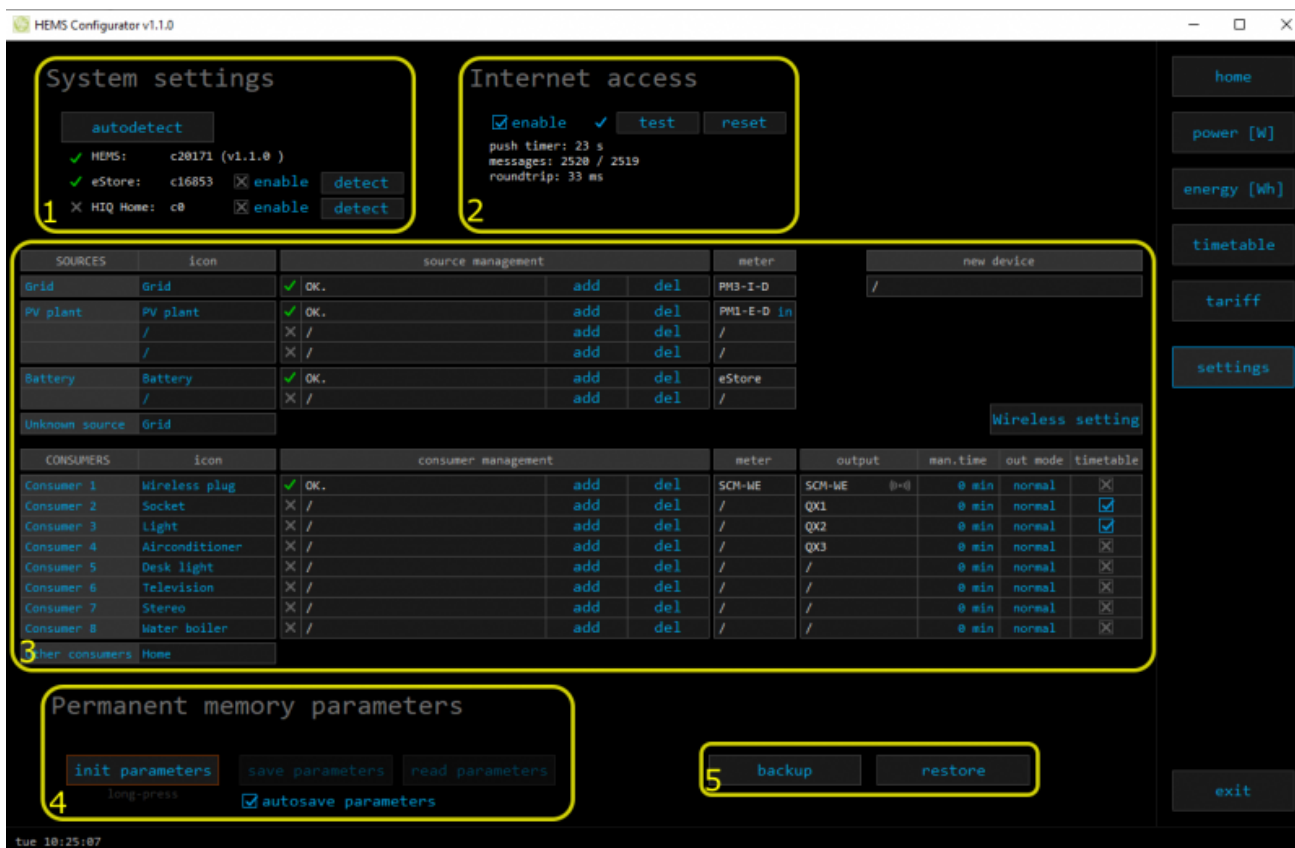
Weekly tariff timetable for grid energy per tariff distribution.



<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. The connection is initialized by the 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
meter	del	Disassociate power-sensor from source & configure it as new power-sensor
	Source power-sensor type	
new device	in/ex	Power plant connected <sup>1</sup>
	Power-sensor configured as new one detected or wireless module configuration <sup>2</sup>	
Wireless setting	Setting up wireless modules: pairing, adding and delete the wireless modules and setting repeater level	
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
meter	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>
	Consumer meter type	
output	Consumer output type	
	<<>>	Setting repeater level <sup>3</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

<sup>3</sup> only for wireless modules and wireless setting must be enabled

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