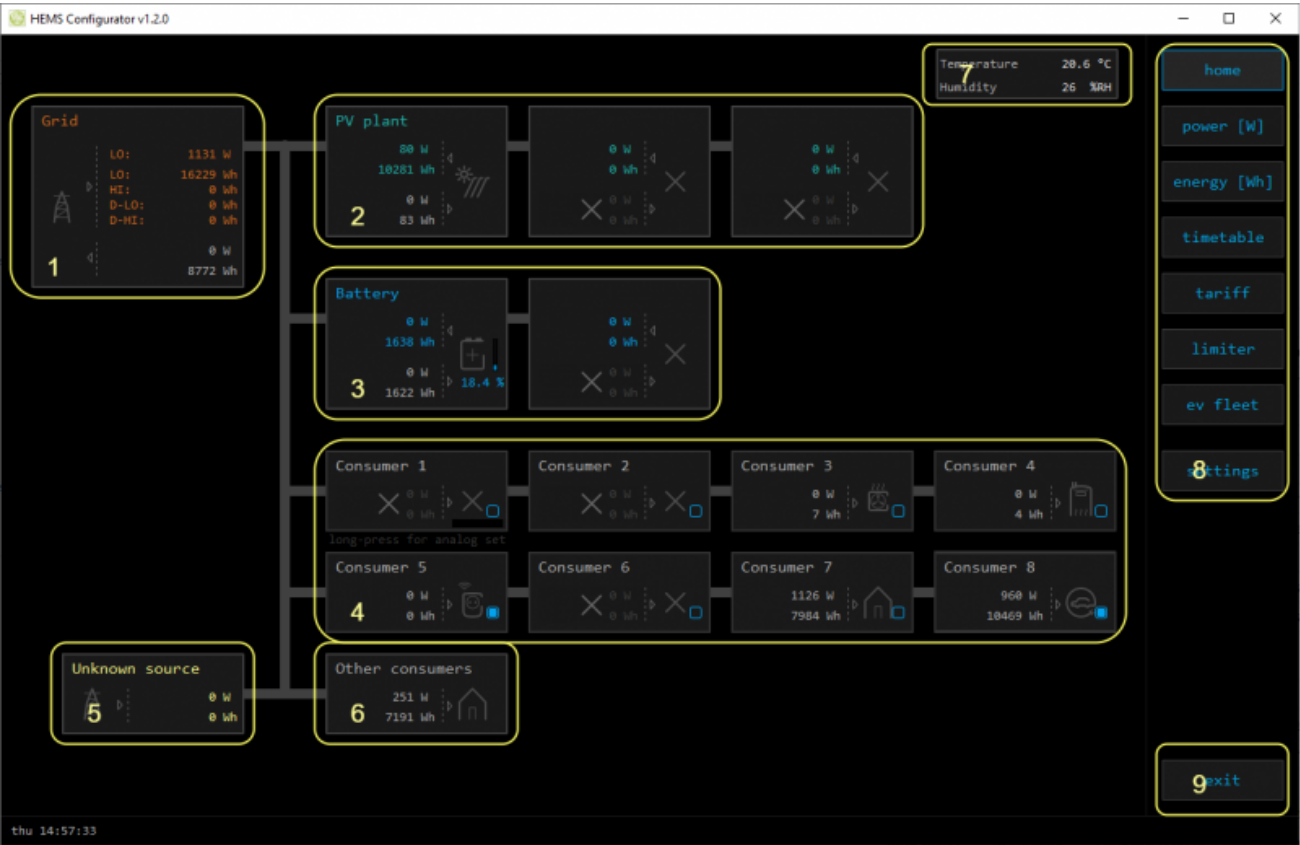


# HEMS v1.2.3 Configurator


Latest version of HEMS Configurator can be found under [download folder](#).

## 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

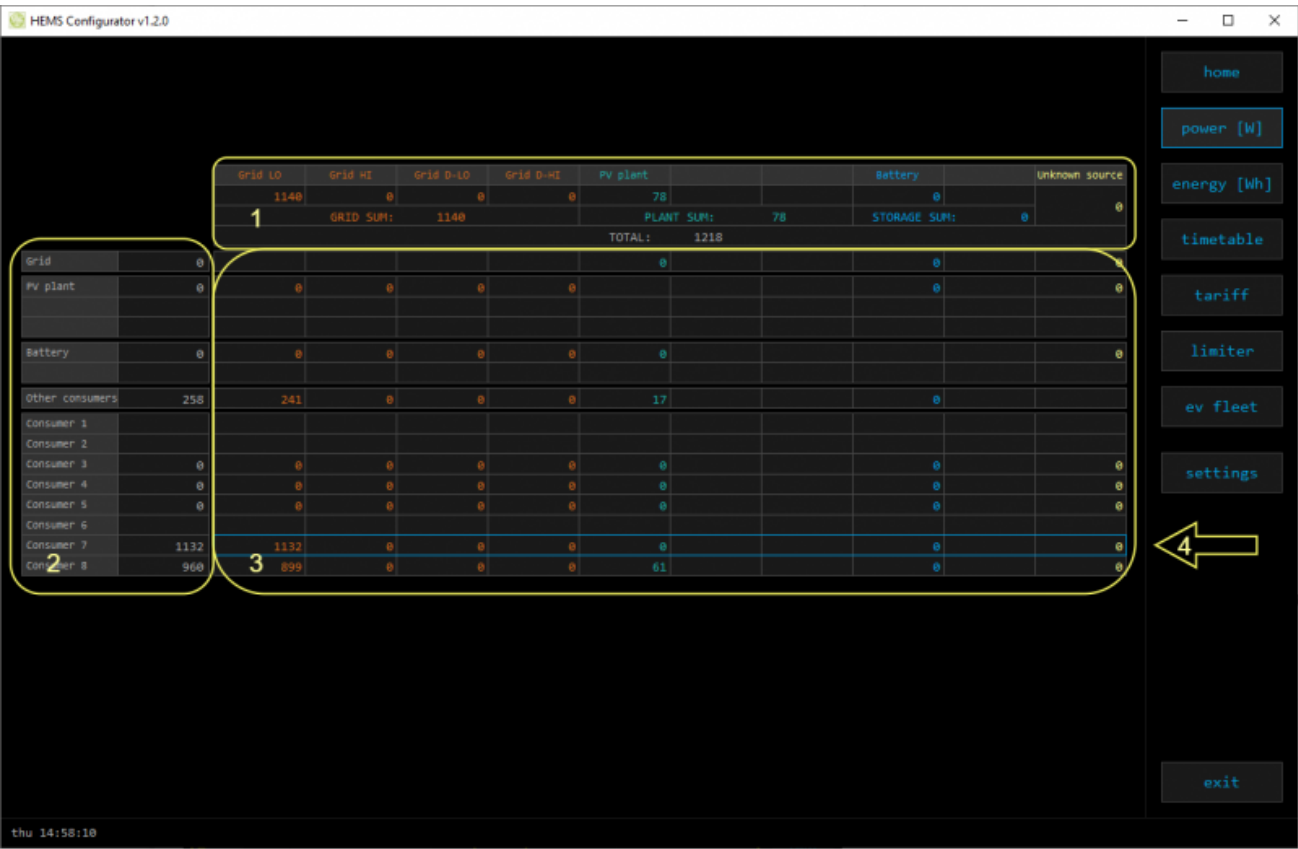
<b>[]</b>	Status	Output status for managed consumers
<b>bargraph</b> <sup>2</sup>	Analog out	Analog output value
<b>click</b>	Toggle	Click in frame toggles managed consumers output
<b>long-press</b> <sup>2</sup>	Set analog	Long press on first consumer pops-up dialog for analog value set
<b>5. Unknown 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
<b>8. Page navigation</b>		
	Home	Home screen
	Power [W]	Power screen
	Energy [Wh]	Energy screen
	Timetable	Timetable screen
	Tariff	Tariff screen
	Limiter	Limitscreen
	EV fleet	EV fleet screen
	IO mux	IO mux screen
	Settings	Settings screen
<b>9. Exit</b>		
	Exit	Close application

<sup>1</sup> only for eStore

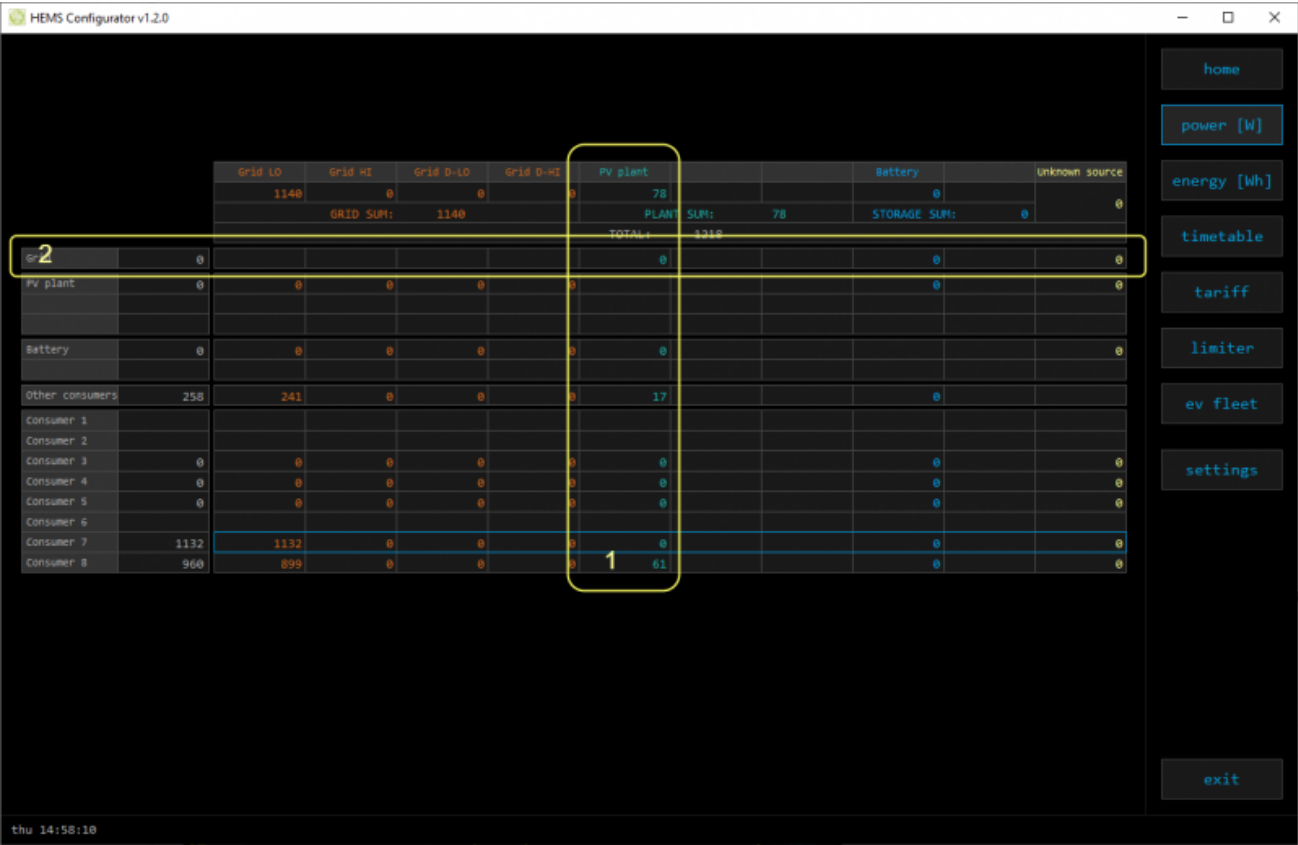
<sup>2</sup> only for first managed consumer

power

Overview of current power distribution by source / consumer.



1. Sourced power
Sourced power for each source
Sums per source type
Total of all sourced power
2. Consumed power
Power for each consumer
3. Power distribution
Partial distributed power
4. Submeter (Blue outline)
Power meter is not part of internal circuit

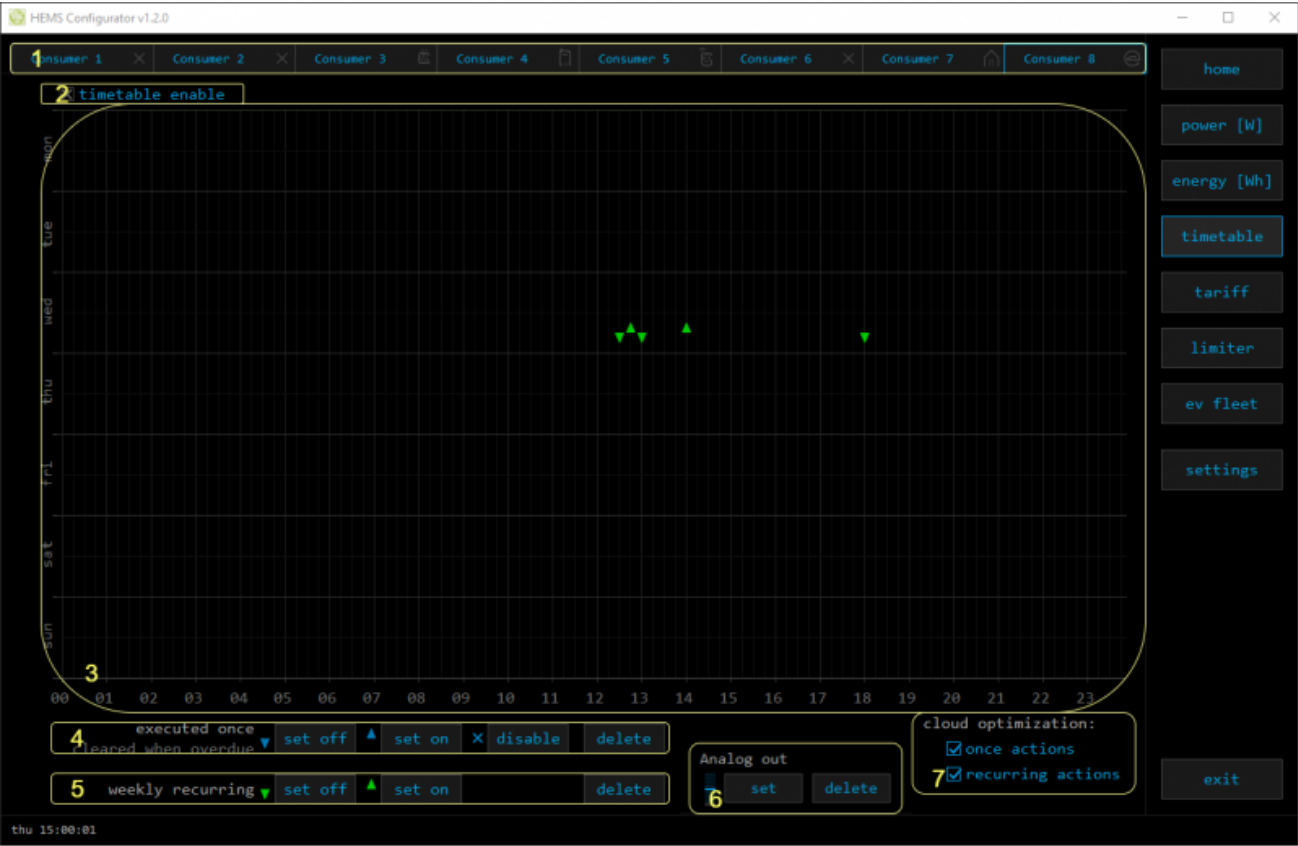


1. Sourced power distribution
How sourced power is consumed by each consumer
2. Consumed power distribution
Who sources consumed power



# timetable

Weekly timetable for managed consumers.

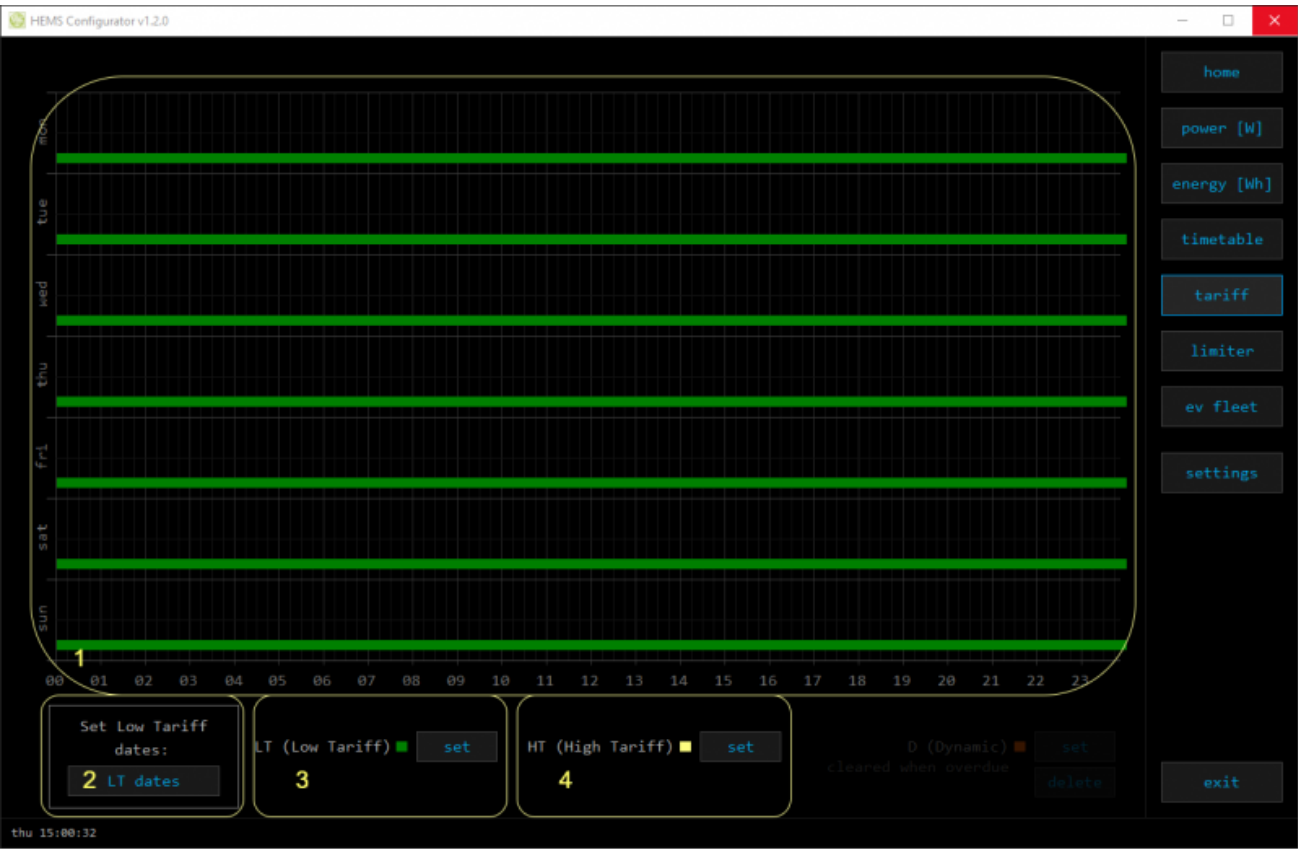


<b>1. Managed load menu</b>
Switch between managed loads
<b>2. Enable checkbox</b>
When un-checked timetable is not executed
<b>3. Events grid</b>
Events displayed in weekly grid (15 min resolution)
Click to select time and set event by clicking buttons below
<b>4. Once actions (top priority timetable 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 <sup>1</sup></b>
Action to set analog output. Analog actions are recurring.
<b>7. Cloud optimization</b>
When enabled (checked) cloud optimization is enabled.

<sup>1</sup> only for Consumer 1

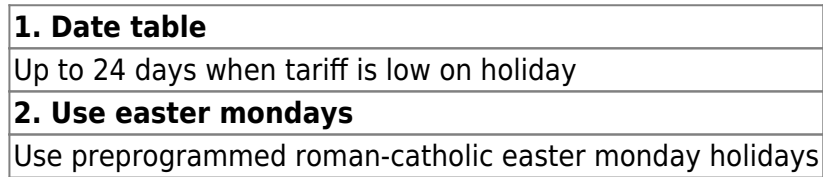
# tariff

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 dates</b>
Set low tariff dates for holidays.
<b>3. Low tariff</b>
Set low tariff for selected terms.
<b>4. High tariff</b>
Set high tariff for selected terms.

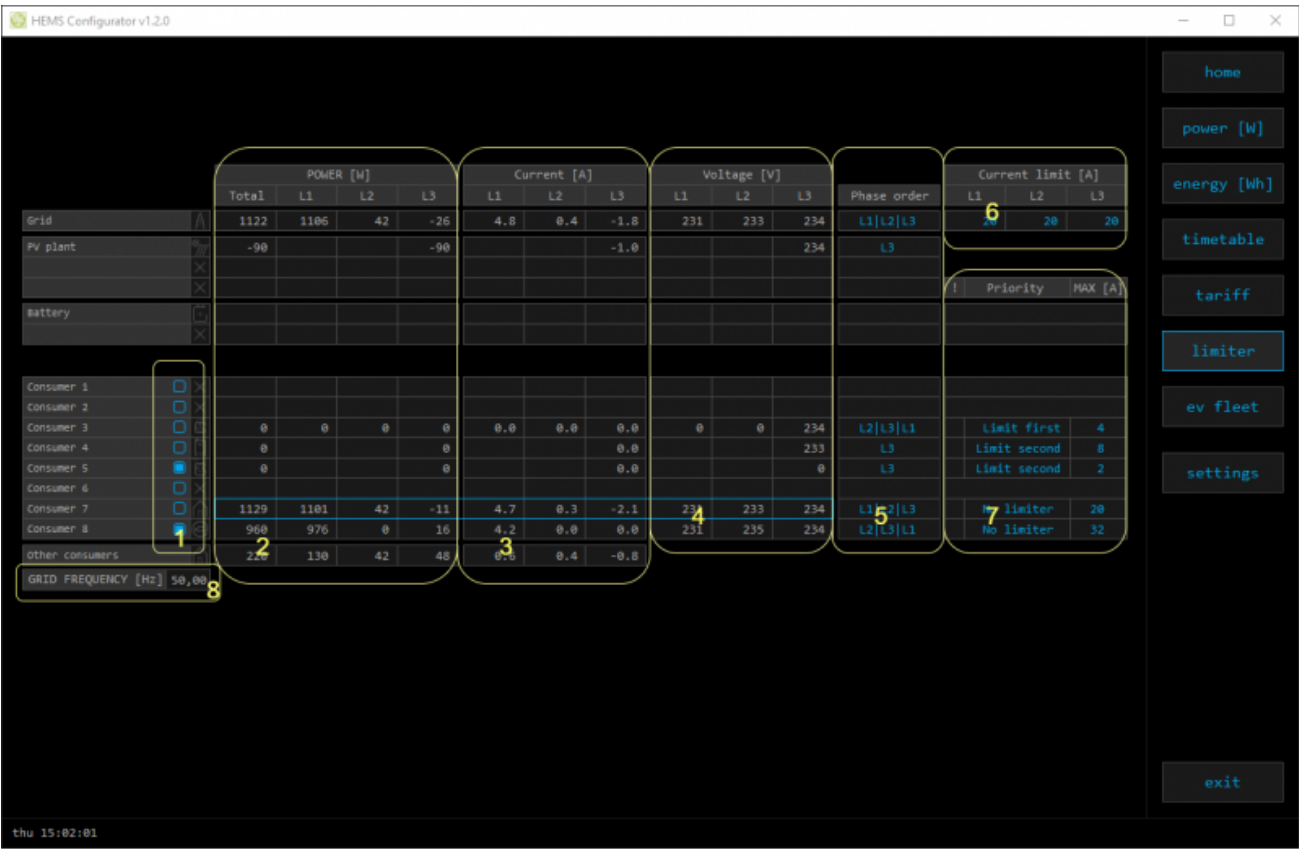
Holiday dates when tariff is low







limiter

Overview and configuration of limiter

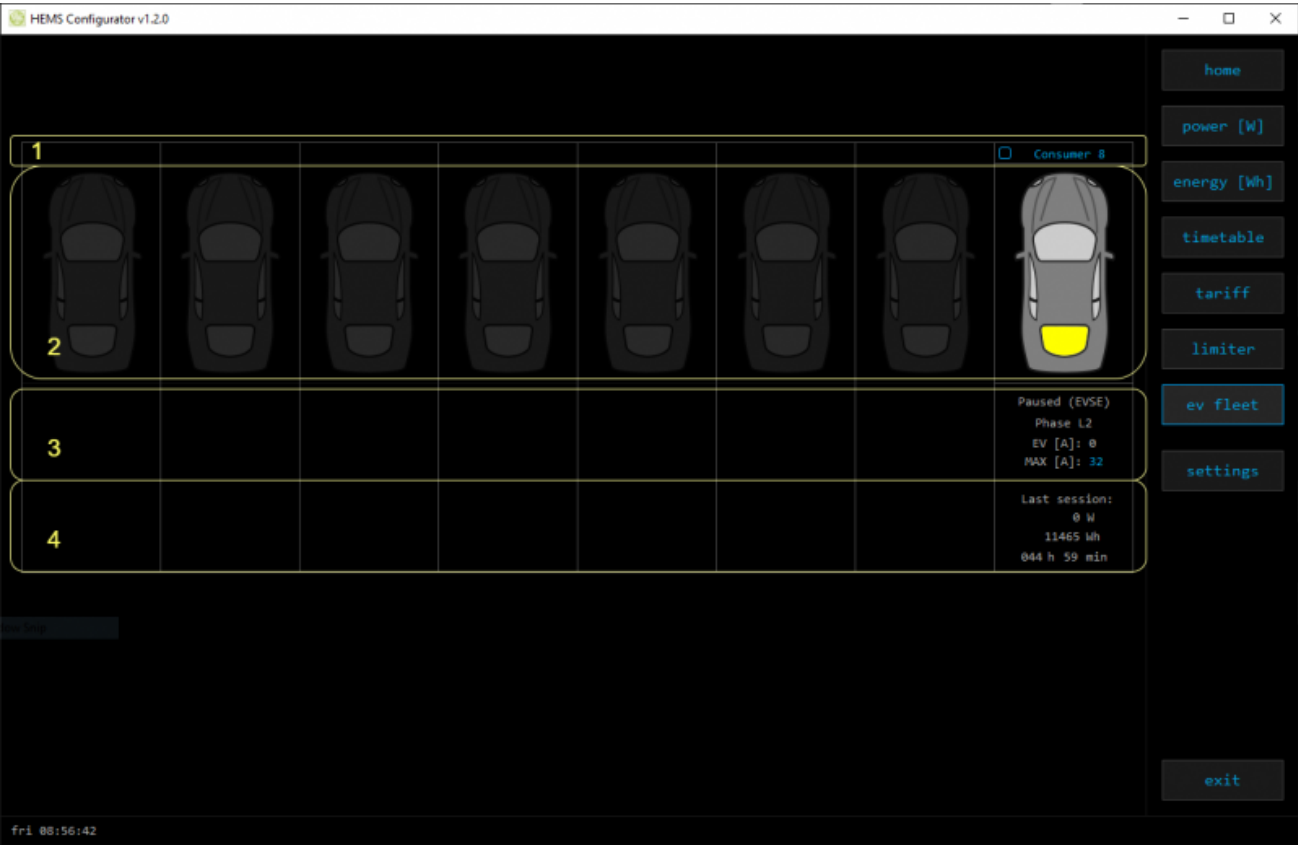


<b>1. Consumer management</b>	
Turn consumers on or off	
<b>2. Power</b>	
Total power and power for each phase	
<b>3. Current</b>	
Current for each phase	
<b>4. Voltage</b>	
Voltage for each phase	
<b>5. Phase order</b>	
First set correct phase order for grid power sensor and then set for other power sensors/devices. NOTE: changing grid phase order will NOT apply to phase order of other connected devices!	
<b>6. Current limit</b>	
Current limit threshold for main grid fuse	
<b>7. Status, priority and current setpoint</b>	
 	Yellow status when limiter is enabled and active. Green status when enabled and not active
Priority	Device priority group (no limiter, limit last, limit second, limit first)
Max [A] <sup>1</sup>	Device expected current draw
<b>8. Grid frequency</b>	
Grid frequency measured on grid power meter sensor	

<sup>1</sup> parameter is dynamically set for all devices, except for the EV charging stations

# ev fleet

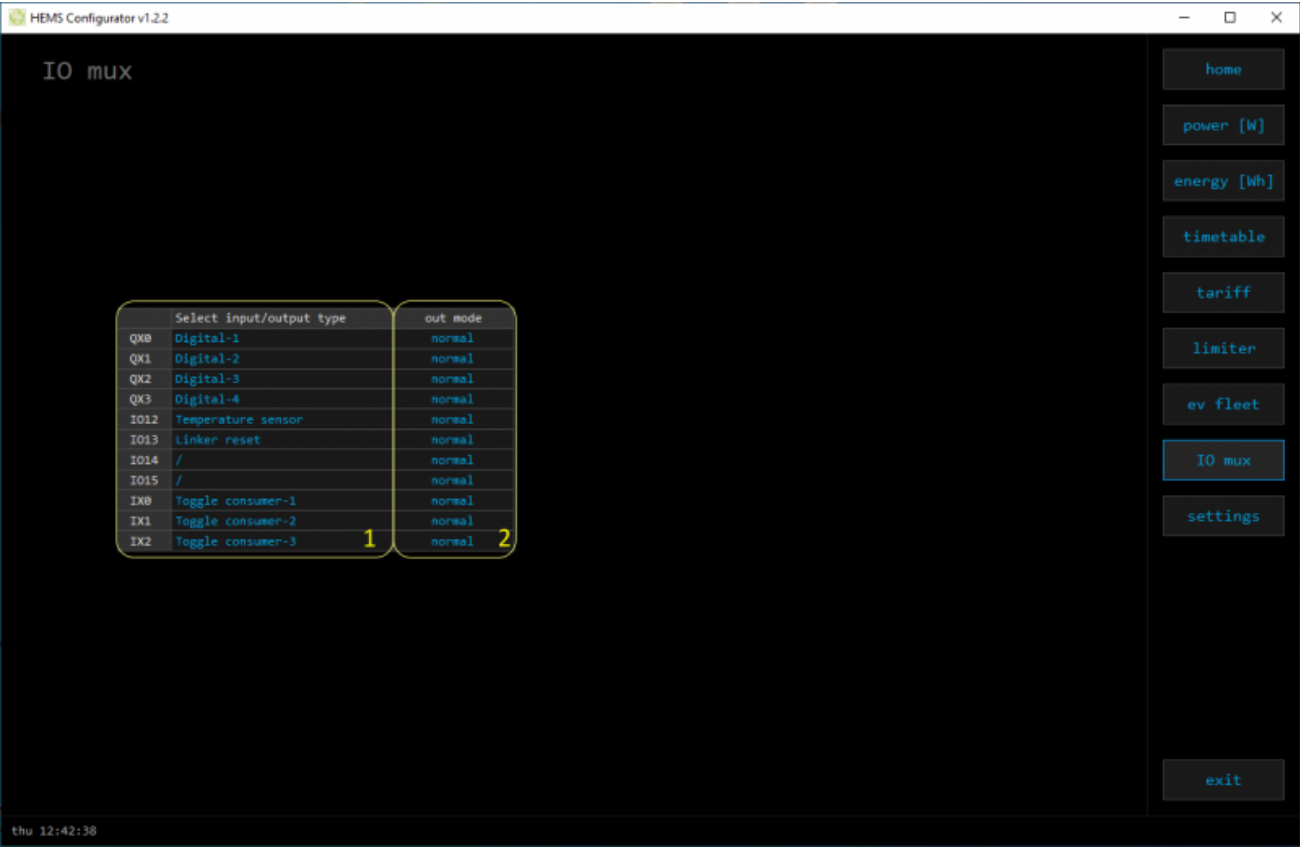
Overview and configuration of EV charging stations



1. EV charging station management	
Turn EV station on or off	
2. EV vehicle status	
GREY	Stand by
RED	Error
YELLOW	Charging paused
BLUE	Charging
GREEN	Charging ended
3. EV charging station status	
Status	Status of EV charging station
Phase detection	Detection of utilized phases
EV [A]	EV charger max allowed current
MAX [A]	User set MAX charging current
3. EV charging session	
Power	Actual power draw
Energy	Energy delivered to EV
Duration	Session charging duration

# io mux

Overview and configuration of input/output ports IO mux



## 1. Select input/output type

On the left side there are defined MC controller ([MC-230](#)) ports to which could be assigned MC-230 functions (digital, linker reset, router reset, etc).

Default settings are for e.g. QX0 → digital 1 while digital 1 is defined for consumer 1 (settings page). It could be changed in a way to define new function role to QX0 port e.g. for linker reset

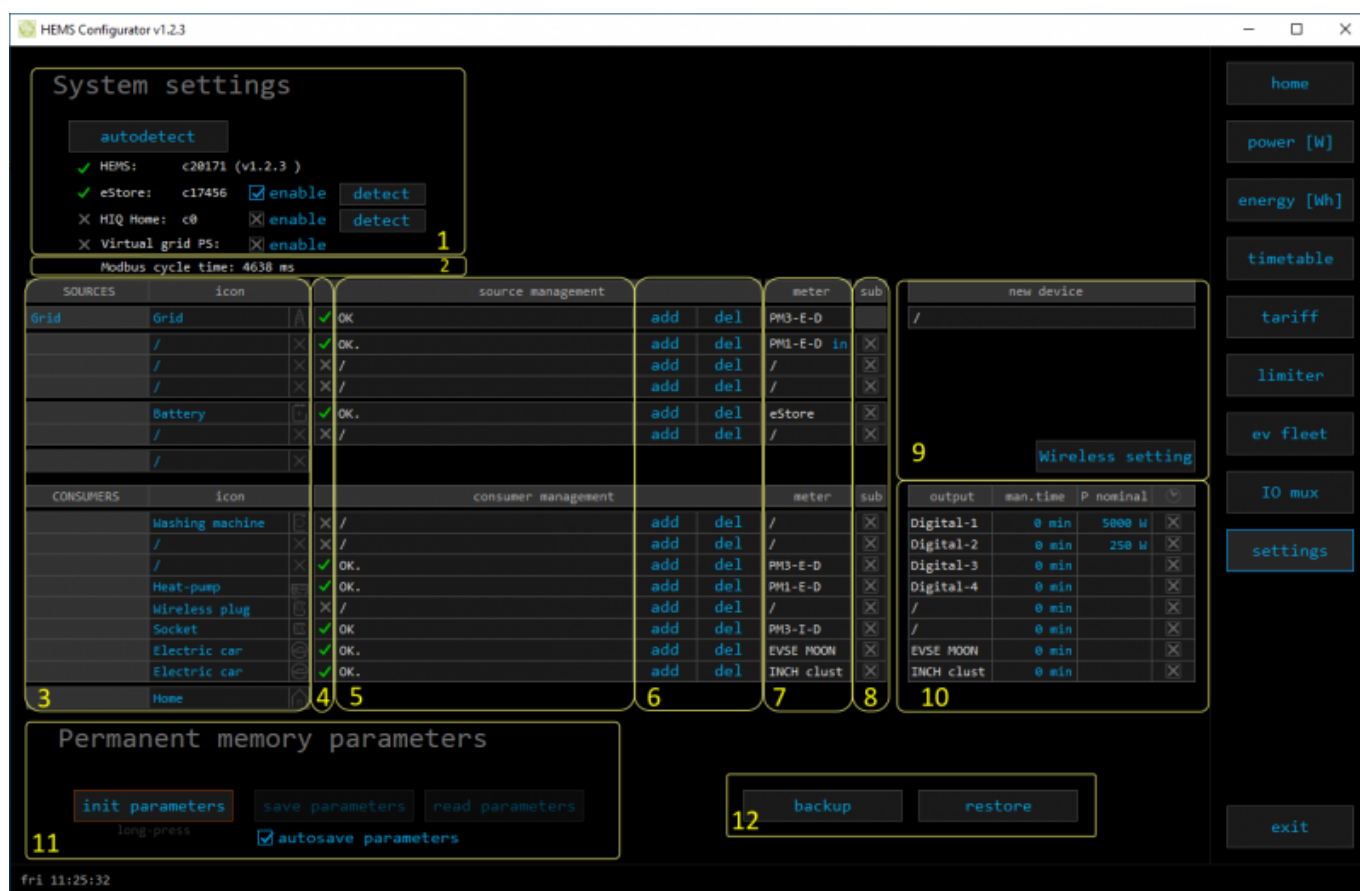
If it is selected Enable consumer at input IX0,IX1 or IX2 it means that dedicated consumer will be managed (ON/OFF) by input signal on IX0,IX1 or IX2. For example, thermostat signal is wired to IX0 port and via IO mux defined “Enable consumer 1” to IX0. While thermostat is active, it is consumer 1 active as well and vice versa.

Limitations: one temperature sensor is allowed, one consumer could be managed by one input only

## 2. out mode

Managed consumer input/output mode (normal or inverted)

# settings



## 1. System settings

[ autodetect ]		Click to find HEMS 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.
Virtual grid PS	[ ] enable	Check if system is without main grid power meter. Energy, power and currents are calculated from other power meters.

## 2. Modbus cycle time

Modbus cycle time	Grid power sensor refresh time in ms
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## 3. Sources and Consumers settings table

SOURCES	Source name
icon	Source icon

## 4. Device status

Status	Status OK, Warning, Error, Detected
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## 5. Device message

source and consumer management	Source or consumer power-sensor management	
	message	Messages regarding source or consumer power-sensor
6. Device configuration		
Configuration	add	Associate new power-sensor to source or consumer
	del	Disassociate power-sensor from source or consumer & configure it as new power-sensor
7. Device type		
meter	Source or consumer power-sensor type	
configuration	in/ex	Power plant connection <sup>1</sup>
8. Submeter option		
sub	Check if this power meter or device is not part of internal circuit. Energy division for this device is ignored and outlined in blue border.	
9. Wireless settigs		
new device	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	
10. Device output		
output	Select consumer output type	
	<<>>	Set repeater level <sup>3</sup>
man. time	Managed consumer manual override timer	
P nominal	Enter consumer's power in Watts. It is disabled if there is assigned power sensor to this consumer.	
clock	Enable timetable	
11. Permanent memory parameters		
[init parameters]	Init all parameters to default values	
[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	
12. Backup / Restore to PC		
[backup]	Backup all parameters to PC <sup>4</sup>	
[restore]	Restore all parameters from PC backup <sup>4</sup>	

<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

<sup>4</sup> older versions of backup files may be used. Any unsuccessfully backed or restored parameters will be displayed but operation will end successfully if you use **continue**.

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