

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) |
| bargraph and %¹ | SOC | Battery State Of Charge |
| 4. Consumers | | |
| > | Consumed | Consumed power in W and energy in Wh |

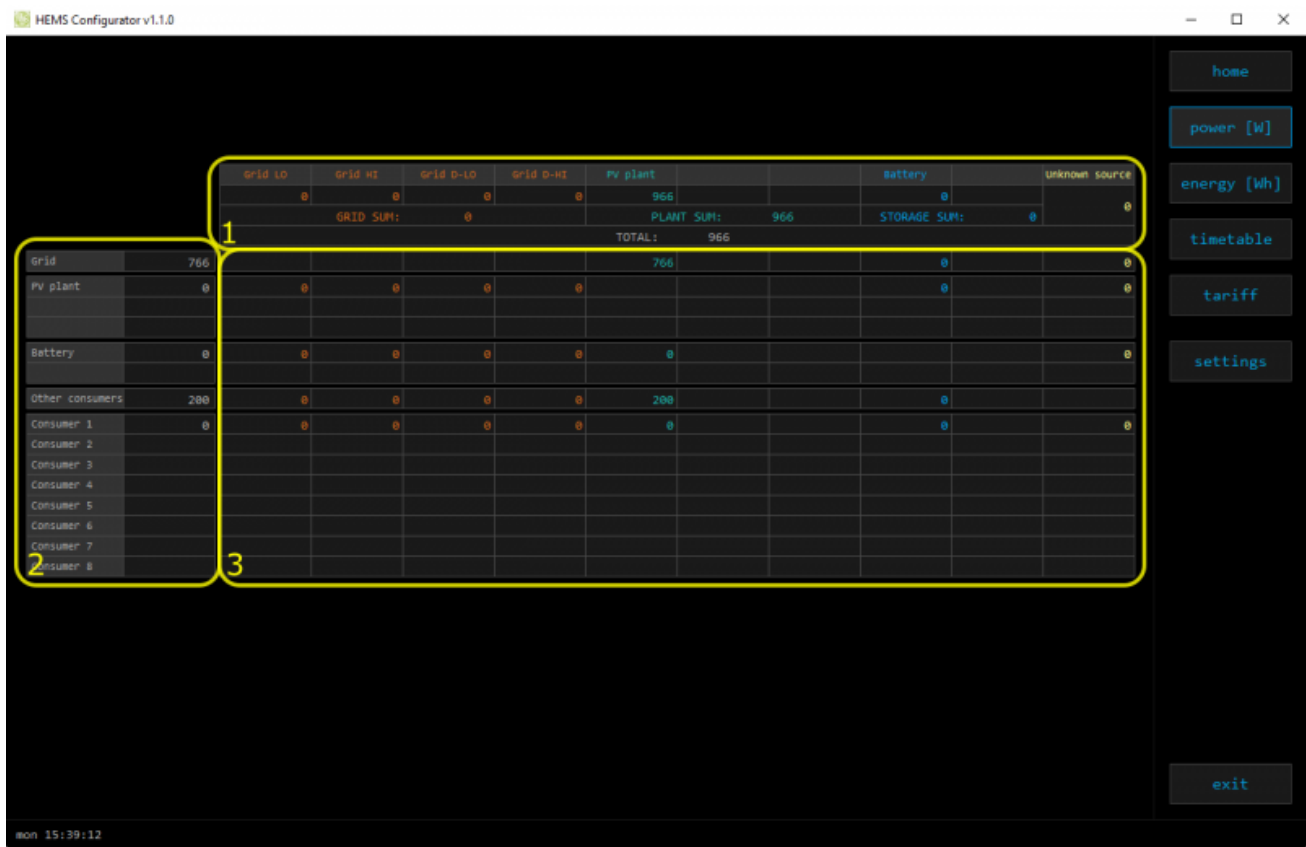
| | | |
|---|-------------|--|
| [] | Status | Output status for managed consumers |
| bargraph ² | Analog out | Analog output value |
| click | Toggle | Click in frame toggles managed consumers output |
| long-press ² | Set analog | Long press on first consumer pops-up dialog for analog value set |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

¹ only for eStore

² 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 |

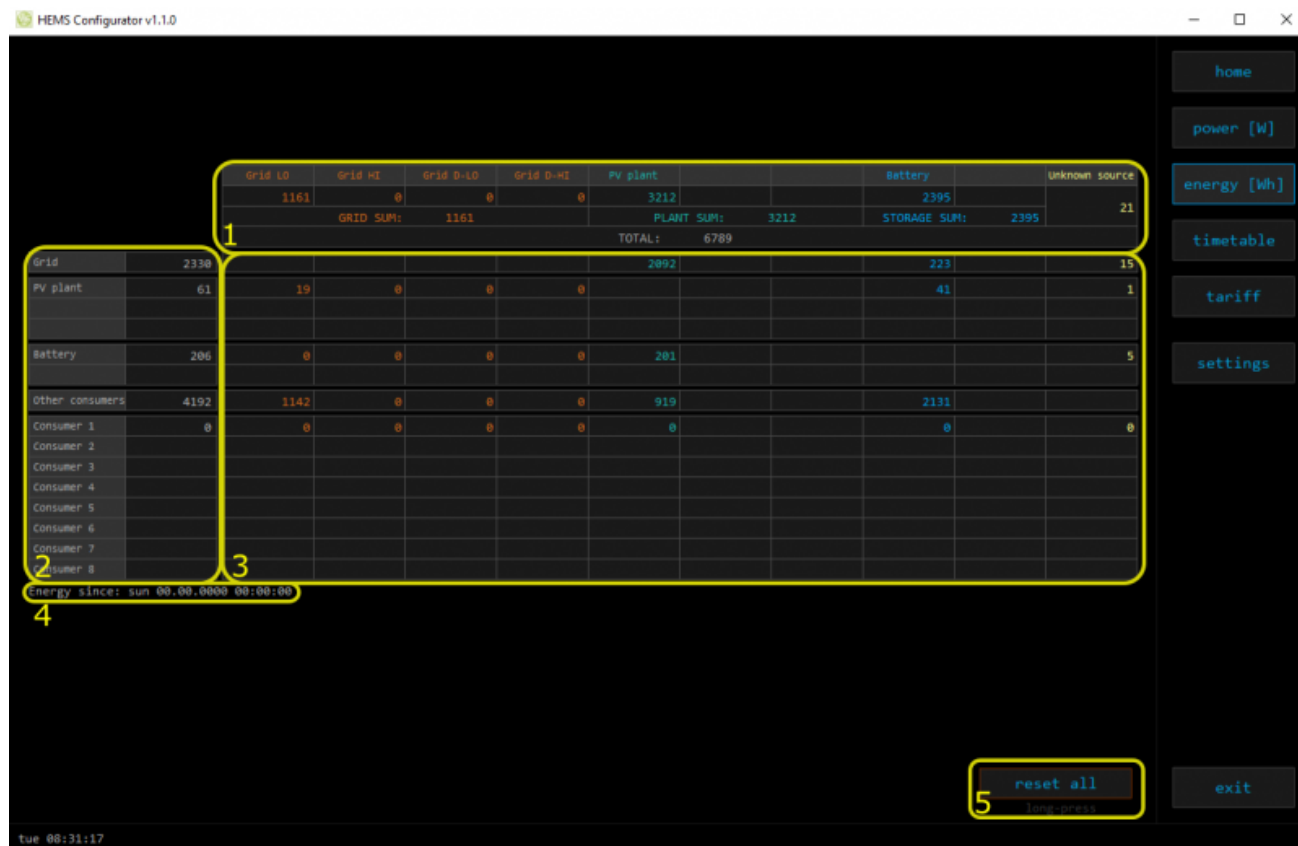
The screenshot shows the HEMS Configurator v1.1.0 interface. A table displays power distribution data. A yellow box labeled '1' highlights the 'pv plant' column, and another yellow box labeled '2' highlights the 'plant' row. A sidebar on the right contains navigation buttons: home, power [W], energy [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: | 0 | 0 |
| | | | | | 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

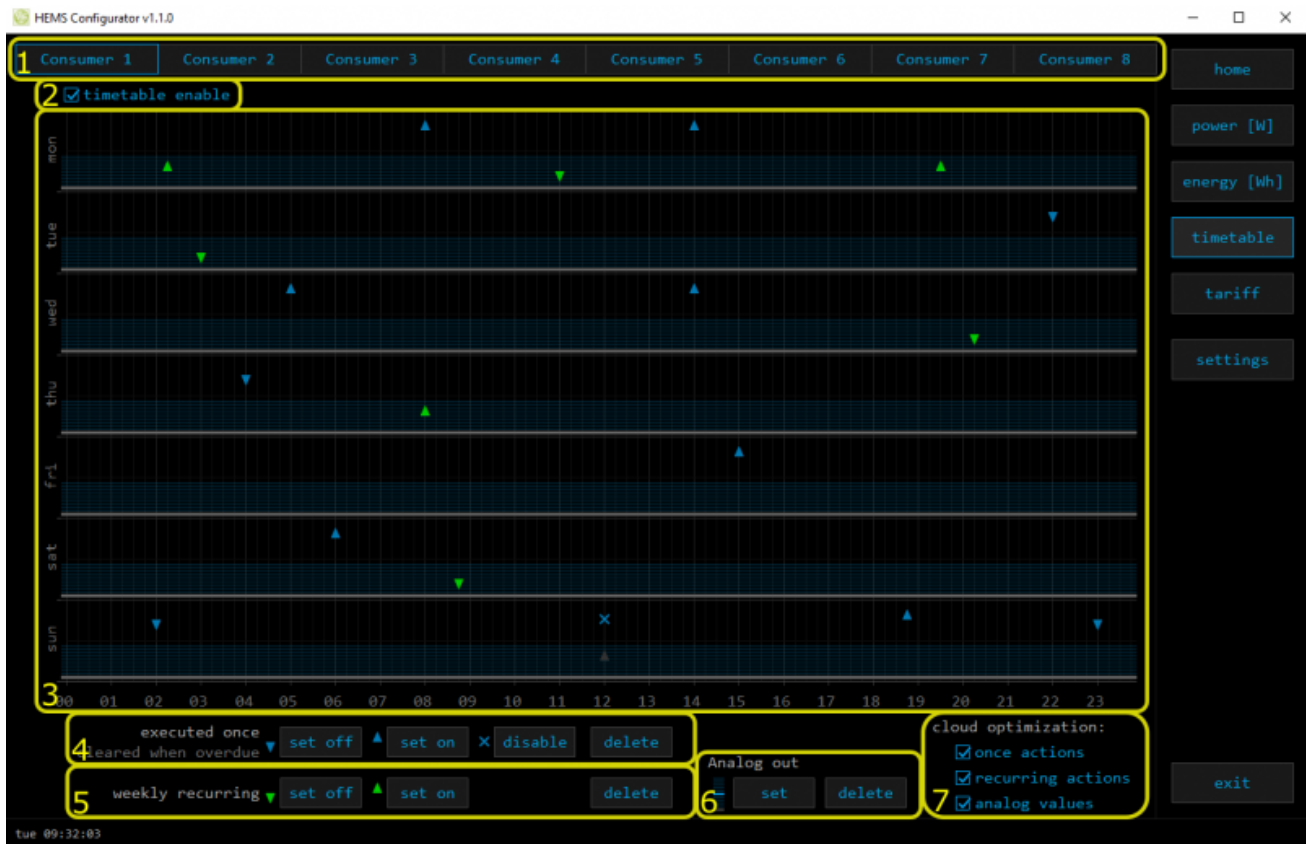
Energy overview of a given time distributed by sources / consumers.



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

timetable

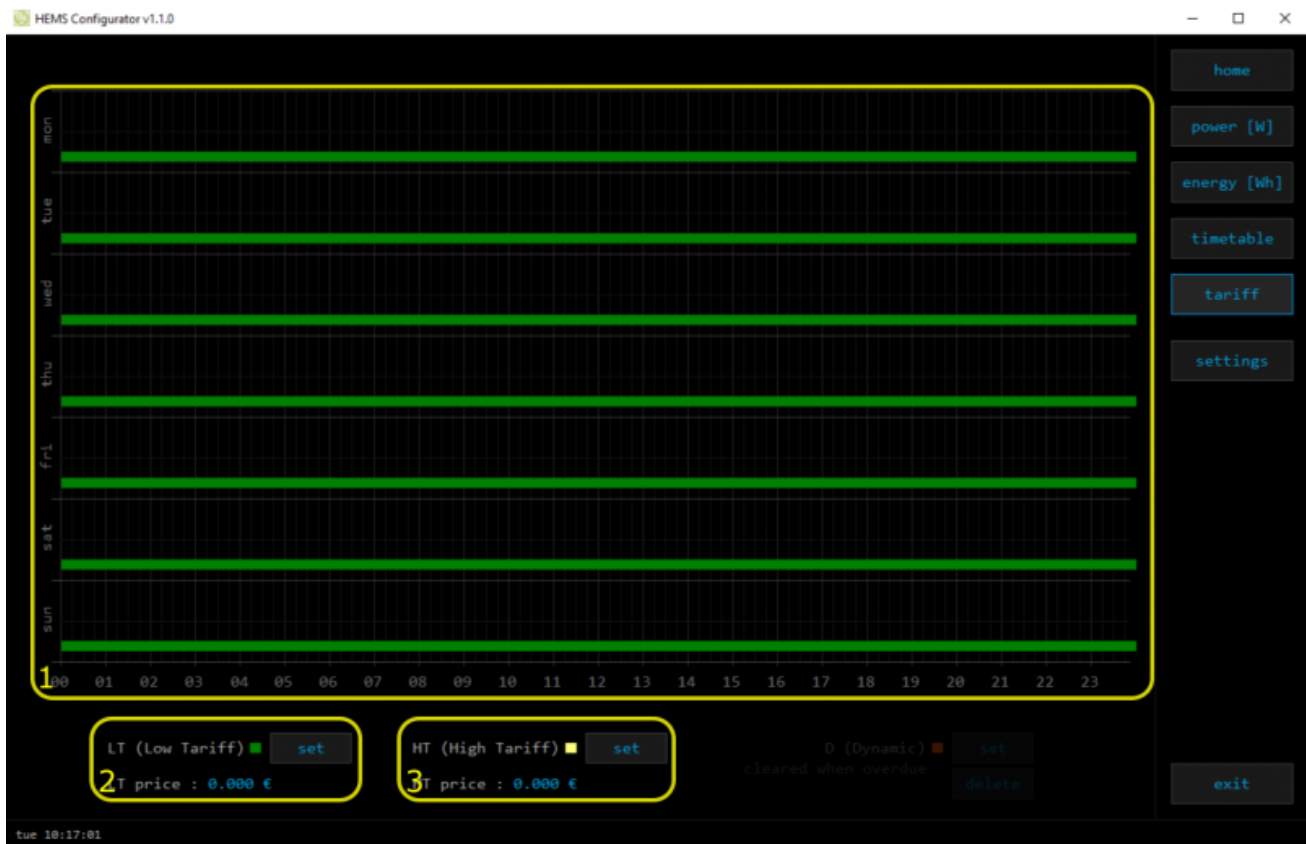
Weekly timetable for managed consumers.



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

tariff

Weekly tariff timetable for grid energy per tariff distribution.



| |
|--|
| 1. Tariff grid |
| Graphical weekly timetable with tariffs. |
| Click to select term, click-and-drag to select multiple terms. |
| 2. Low tariff |
| Set low tariff for selected terms. |
| 3. High tariff |
| 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. | |
| 3. Sources and Consumers settings table | | |
| 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 ¹ |
| new device | Power-sensor configured as new one detected or wireless module configuration ² | |
| 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 ² to consumer |
| | del | Disassociate power-sensor or wireless module ² from consumer & configure it as new power-sensor or new wireless module ² |
| meter | Consumer meter type | |
| output | Consumer output type | |
| | << >> | Setting repeater level ³ |
| man. time | Manged consumer manual override timer | |
| out mode | Manged consumer output mode (normal or inverted) | |
| timetable | Manged consumer timetable execution enabled | |
| 4. Permanent memory parameters | | |
| [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 | |
| 5. Backup / Restore to PC | | |
| [backup] | Backup all parameters to PC | |
| [restore] | Restore all parameters from PC backup | |

¹ only for the first power plant

² wireless setting must be enabled

³ only for wireless modules

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