

# 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<br>Imported energy by tariff in Wh |
| <                           | To grid   | Power exported to grid in W<br>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 % <sup>1</sup> | SOC       | Battery State Of Charge   |
| 4. Consumers                |           |   |
| >                           | Consumed  | Consumed power in W and energy in Wh  |

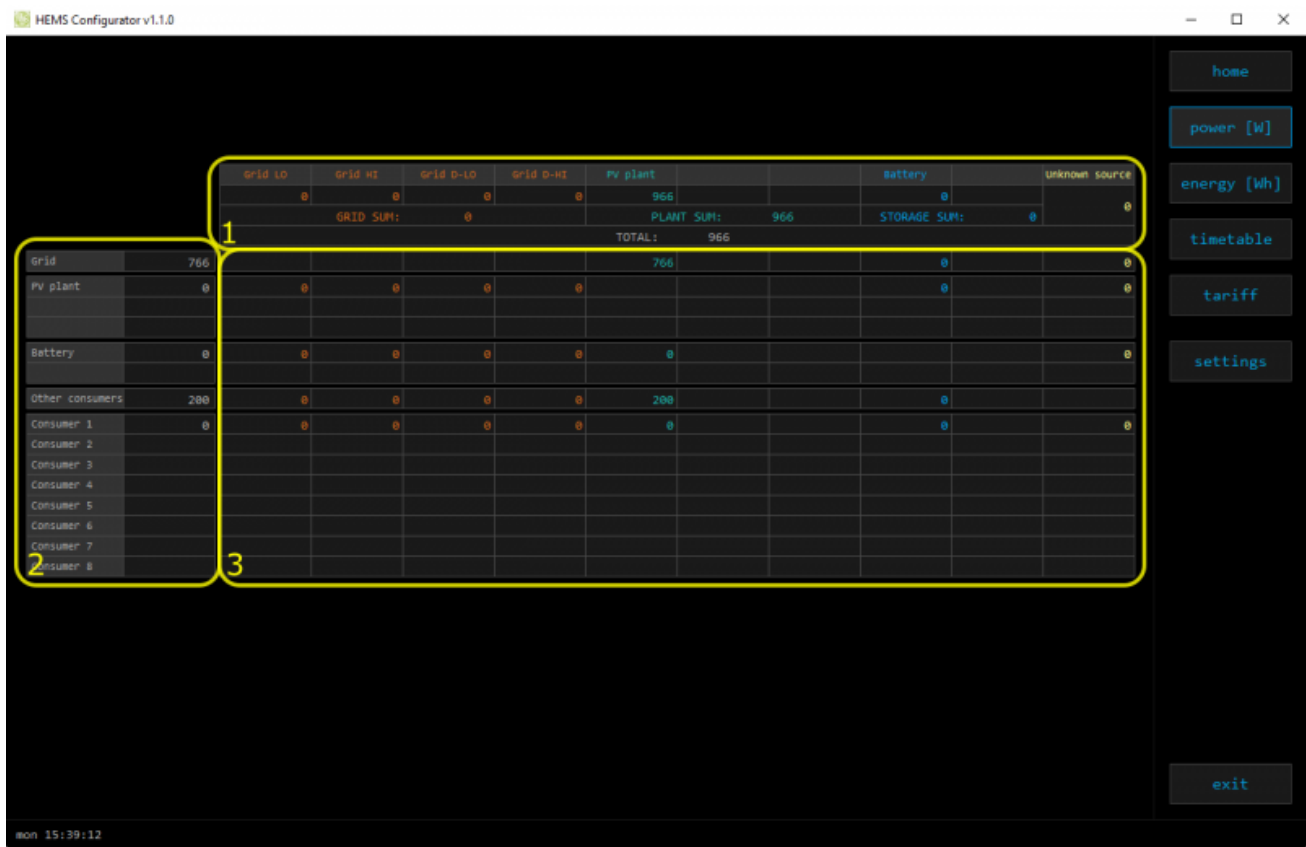
|   |             |  |
|---|-------------|--|
| <b>[]</b>   | Status      | Output status for managed consumers                                    |
| <b>bargraph</b> <sup>2</sup>  | Analog out  | Analog output value  |
| <b>click</b>  | Toggle      | Click in frame toggles managed consumers output                        |
| <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     |

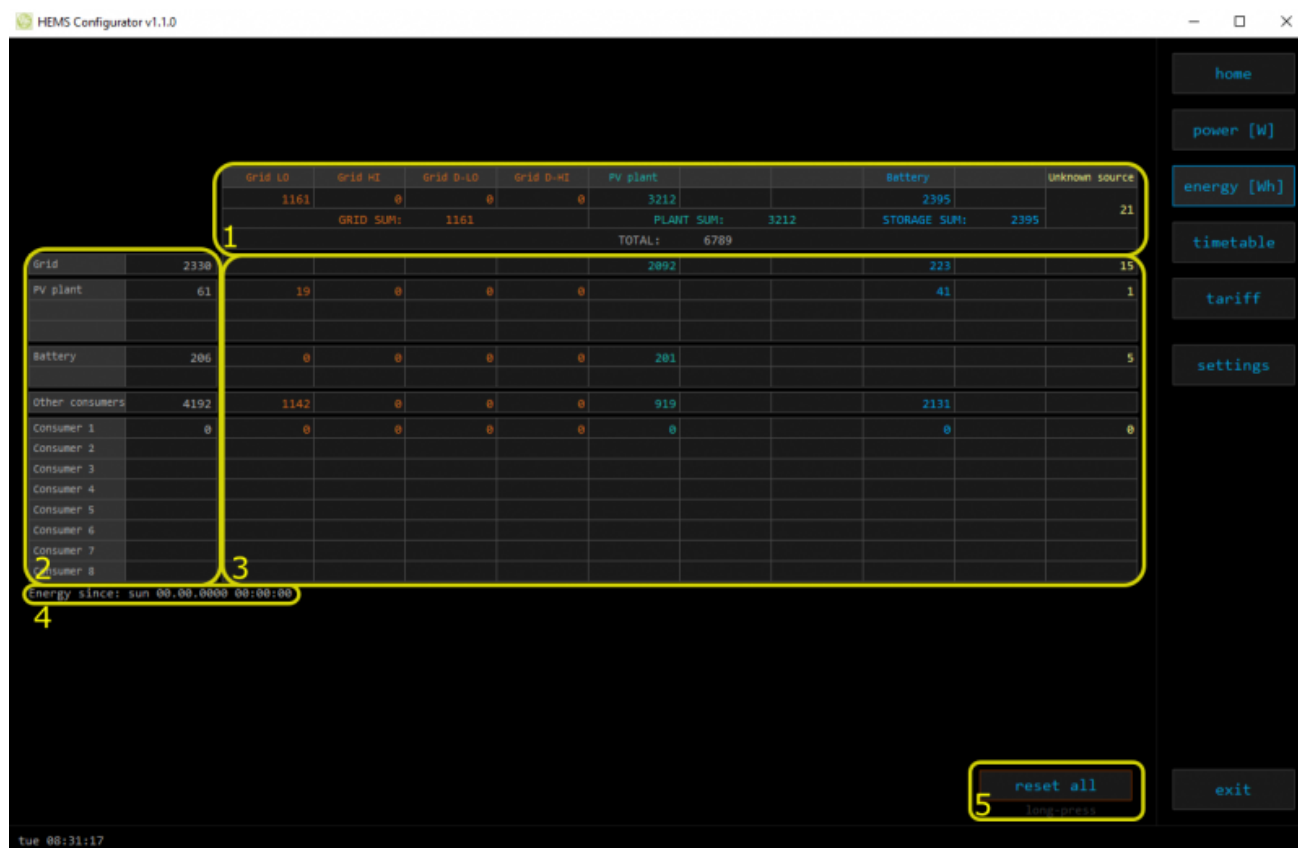
The screenshot shows the HEMS Configurator v1.1.0 interface. A table displays power distribution data. A yellow box labeled '1' highlights the 'pv plant' column, and another yellow box labeled '2' highlights the 'plant' row. A sidebar on the right contains navigation buttons: home, power [W], energy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

- |  |
|--|
| <b>1. Sourced power distribution</b>           |
| How sourced power is consumed by each consumer |
| <b>2. Consumed power distribution</b>          |
| 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

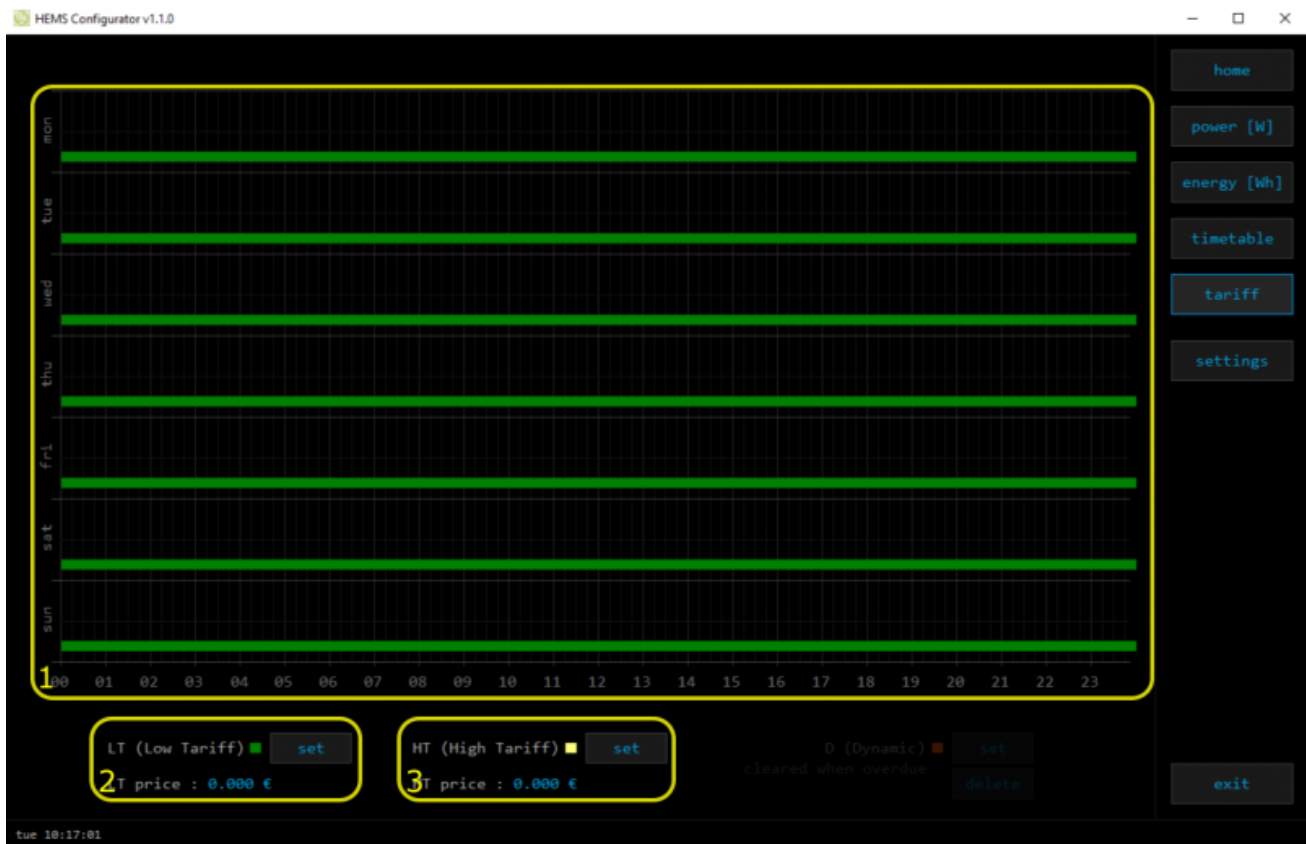
Weekly timetable for managed consumers.



|  |
|--|
| <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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Last update: **2021/02/02 10:44**

