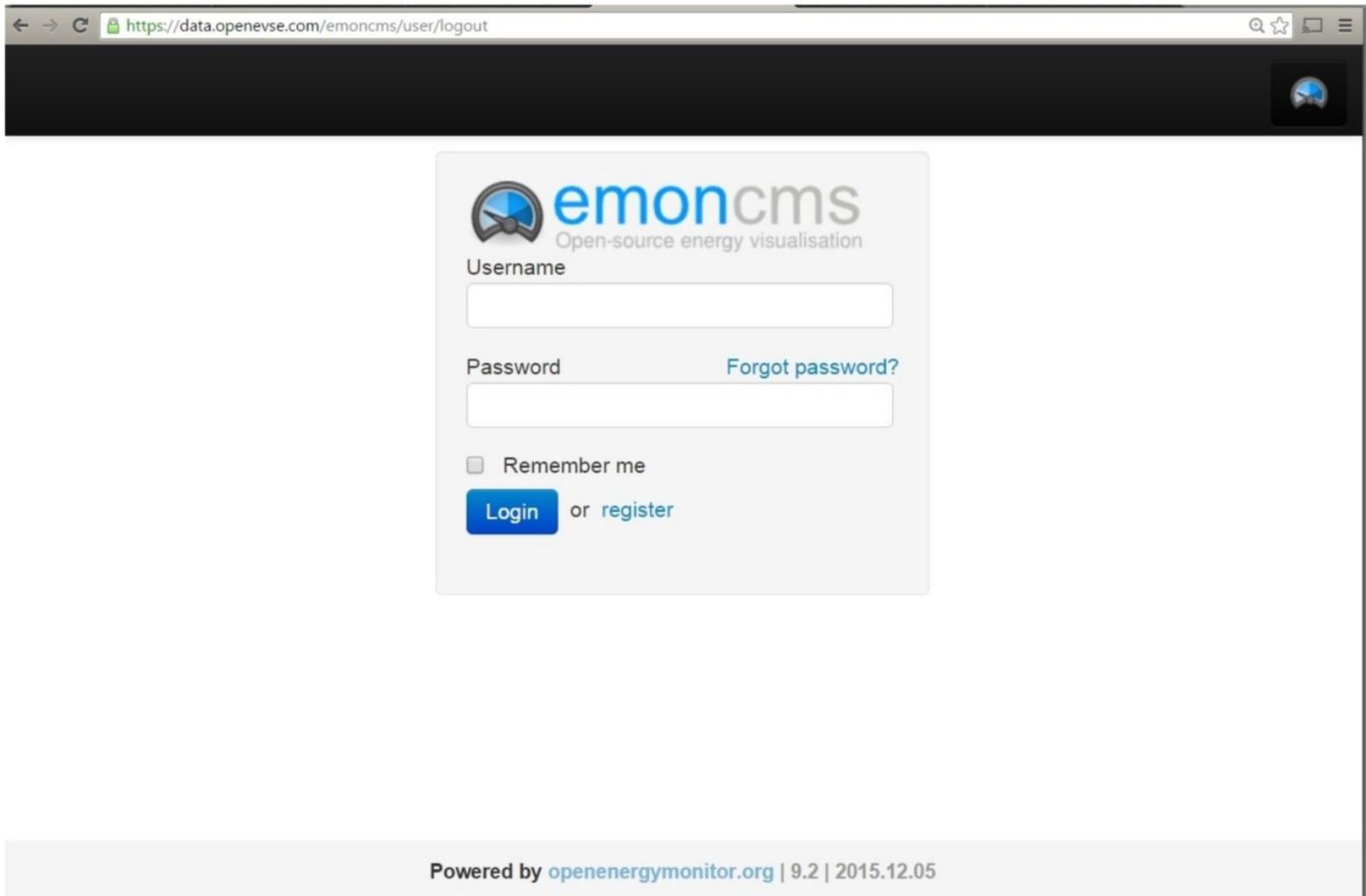


OpenEVSE

Services - EmonCMS

Guide to set up OpenEVSE WiFi and Energy Monitoring

Written By: Christopher Howell



The screenshot shows a web browser window with the URL <https://data.openevse.com/emoncms/user/logout>. The page features the EmonCMS logo, which includes a speedometer icon and the text "emoncms Open-source energy visualisation". Below the logo is a login form with the following elements:

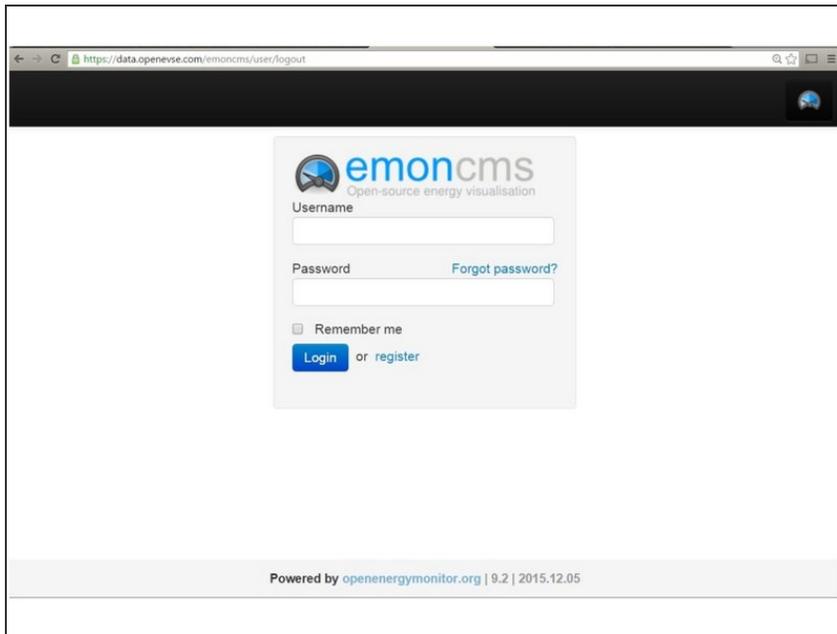
- A "Username" label followed by a text input field.
- A "Password" label followed by a text input field and a blue link for "Forgot password?".
- A checkbox labeled "Remember me".
- A blue "Login" button followed by the text "or register".

At the bottom of the page, there is a footer that reads "Powered by openenergymonitor.org | 9.2 | 2015.12.05".

INTRODUCTION

Outline what you are going to teach someone how to do.

Step 1 — Setup account at OpenEVSE Energy Monitoring site



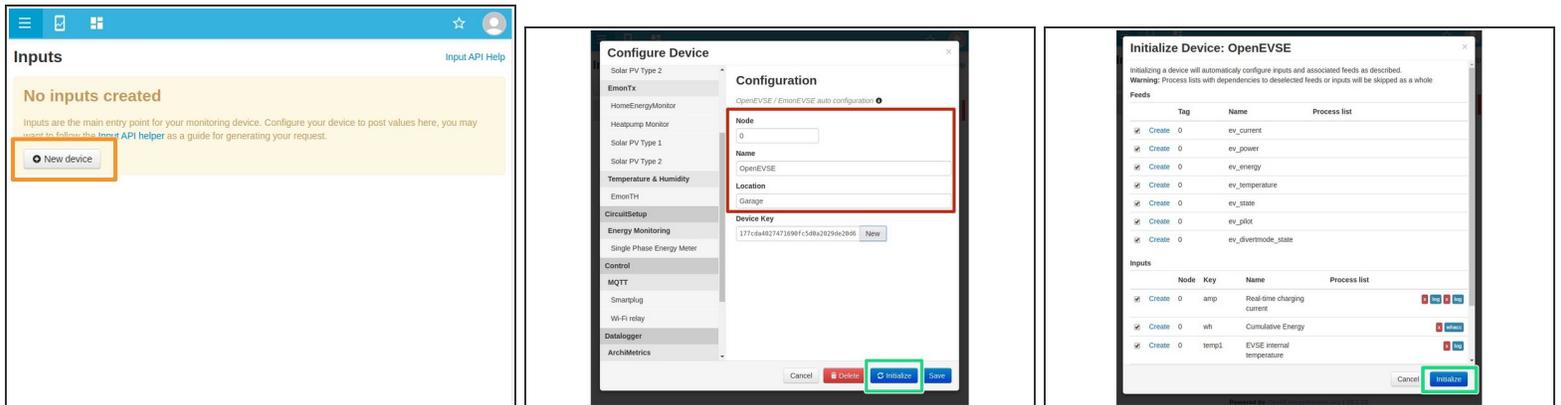
The screenshot shows a web browser window with the URL <https://data.openevse.com/emoncms/user/logout>. The page features the EmonCMS logo and the text "Open-source energy visualisation". Below the logo is a login form with the following fields and options:

- Username:** A text input field.
- Password:** A text input field with a "Forgot password?" link next to it.
- Remember me
- or register

At the bottom of the page, it says "Powered by openenergymonitor.org | 9.2 | 2015.12.05".

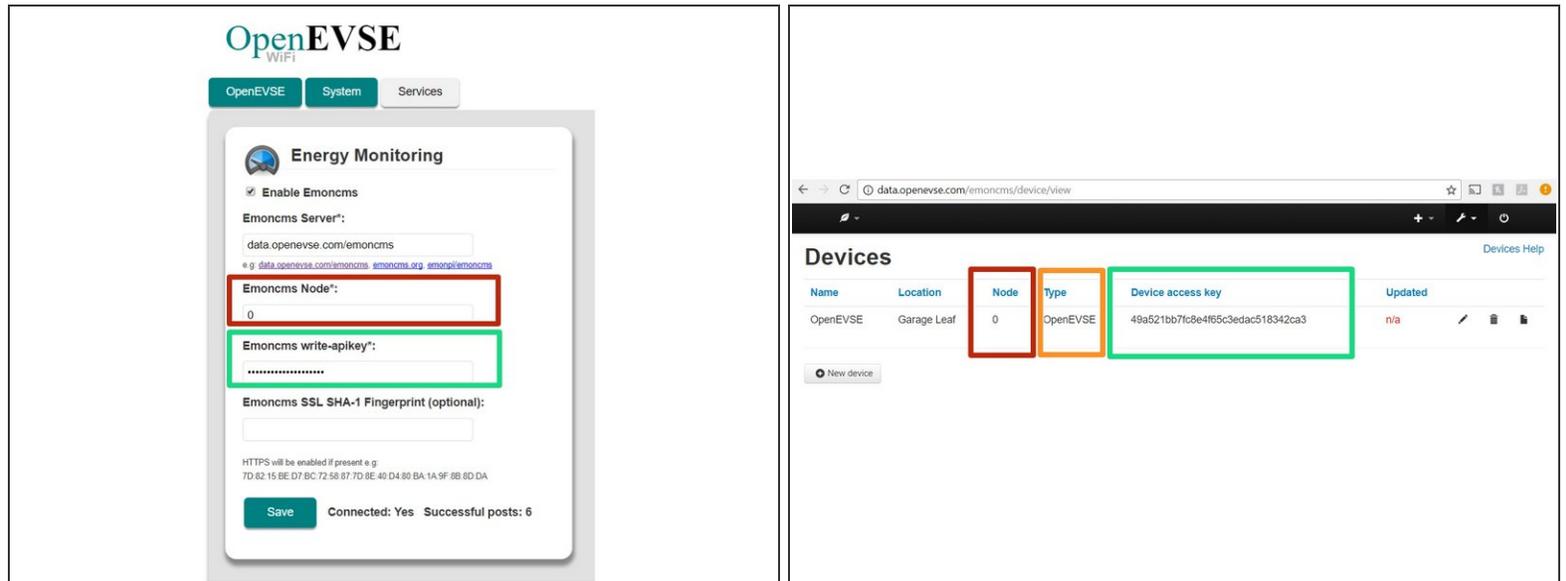
- Setup Free account at: [OpenEVSE Energy Monitoring](#)
- Enter Username, Email and Password to register for an Account.

Step 2 — Setup a Device in EmonCMS



- Click on Inputs
- Select New Device
- ⓘ In devices already exist click the gear icon on an existing device.
 - Enter Node (0 - 32).
 - ➡ This will be used later in the WiFi module.
 - Enter name and location.
 - Select Initialize the Initialize again.
- Click the gear icon click new and copy the device key.

Step 3 — Service - Energy Monitoring



- Login to the OpenEVSE WiFi portal and click on the Services tab.
- Click "Enable EmonCMS" in the services tab.
- Verify the server is set to: data.openevse.com/emoncms
 - Select https:// for the server if available to enable secure mode.
 - Set node (0 - 32) Matching the value chosen in the last step.
 - Paste the Device Key from EmonCMS to write-apikey.
- Click Save

Step 4 — Energy Monitoring -- Inputs

Inputs			
Node 0			
Node	Key	Name	Process list
0	OpenEVSE_AMP		* feed Power to kWh Power to kWh/d Histogram Log to feed
0	OpenEVSE_VOLT		
0	OpenEVSE_TEMP1		Log to feed Max daily value Histogram
0	OpenEVSE_PILOT		Log to feed
0	API_Update		
0	OpenEVSE_TEMP2		
Node 1			
Node	Key	Name	Process list
1	OpenEVSE_AMP		* feed Power to kWh Power to kWh/d Histogram Log to feed
1	OpenEVSE_VOLT		
1	OpenEVSE_TEMP2		* feed Log to feed Max daily value
1	OpenEVSE_PILOT		Log to feed
1	API_Update		
Node 5			
Node	Key	Name	Process list
5	OpenEVSE_AMP		
5	OpenEVSE_VOLT		

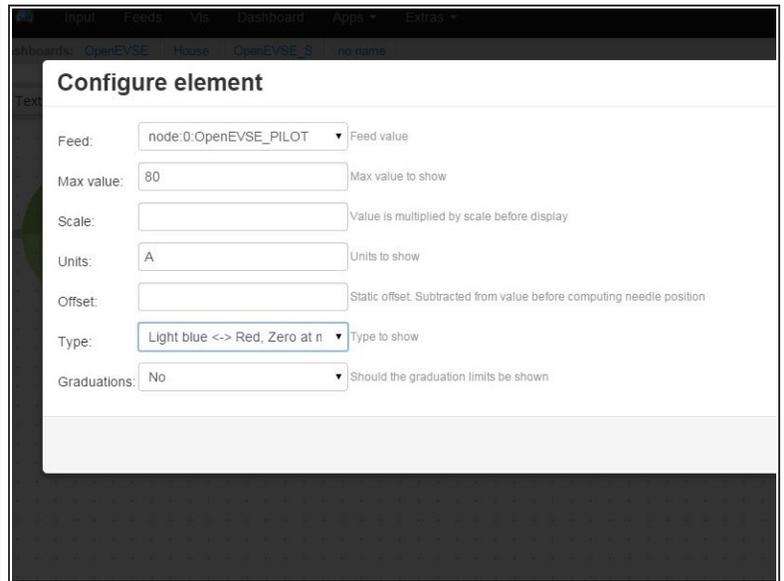
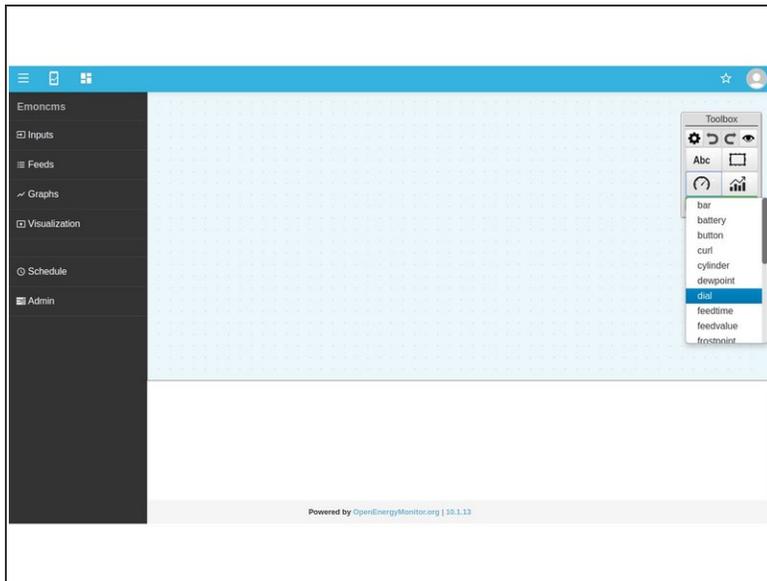
- Go back to [OpenEVSE Energy Monitoring](#)
- Select Inputs - Navigate to Setup => Inputs. The Inputs section should now display live data from OpenEVSE.
- ⓘ Inputs from other sensors can be included such as additional current, temperature, humidity, voltage etc. See [Open Energy Project](#)
- 📌 Inputs displays live data from the sensors. This data is not stored, logged or archived.

Step 5 — Setup Energy Monitoring -- Dashboards

The screenshot shows the EmonCMS interface. On the left is a dark sidebar with navigation icons for Inputs, Feeds, Graphs, Visualization, Schedule, and Admin. The main content area is titled 'Dashboard' and features a 'New +' button in the top right corner, which is highlighted with a red box. Below the title is a table with columns for 'Id', 'Name', and 'Alias'. The table contains one row with '2069' in the 'Id' column and 'no name' in the 'Name' column. Below the table, there are several icons for actions like star, refresh, delete, and share. At the bottom of the page, it says 'Powered by OpenEnergyMonitor.org | 10.1.13'.

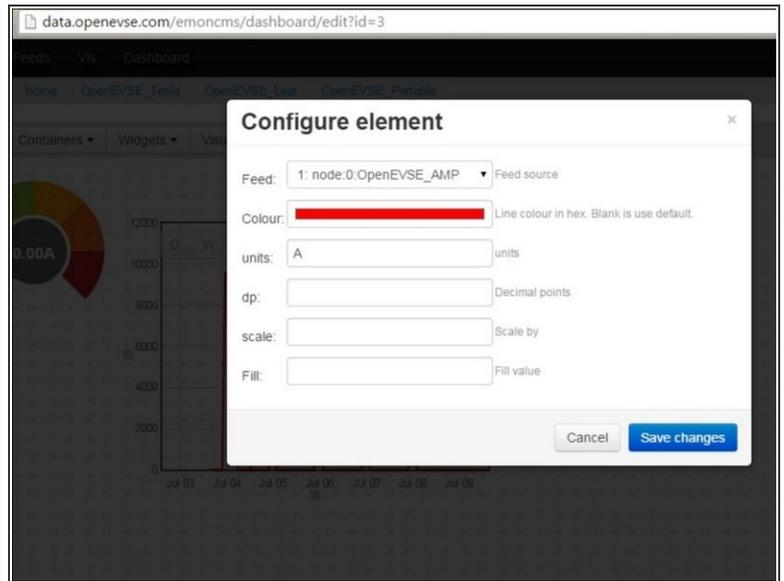
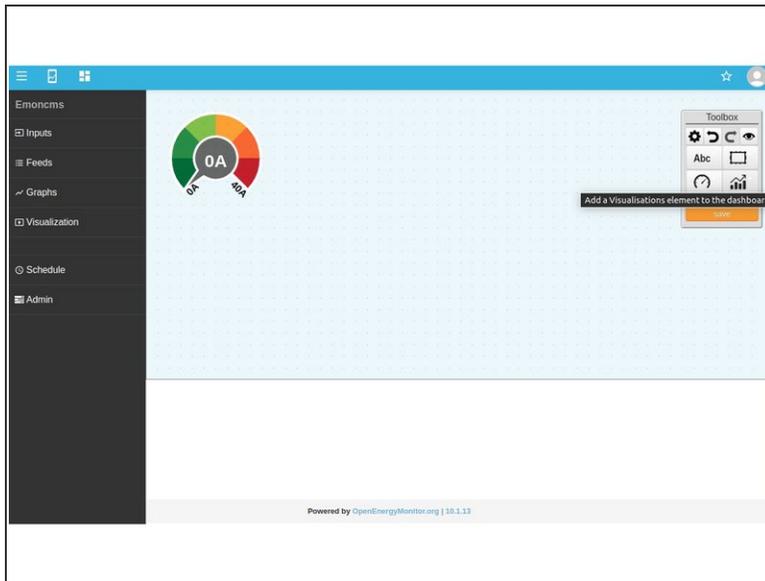
- Dashboards display data logged from the feeds. You can create as many dashboard views as you wish.
- Click on the Dashboard icon and click New + to create your first Dashboard.
- The name can be edited by clicking on the pencil icon.

Step 6 — Setup Dashboard - Dial



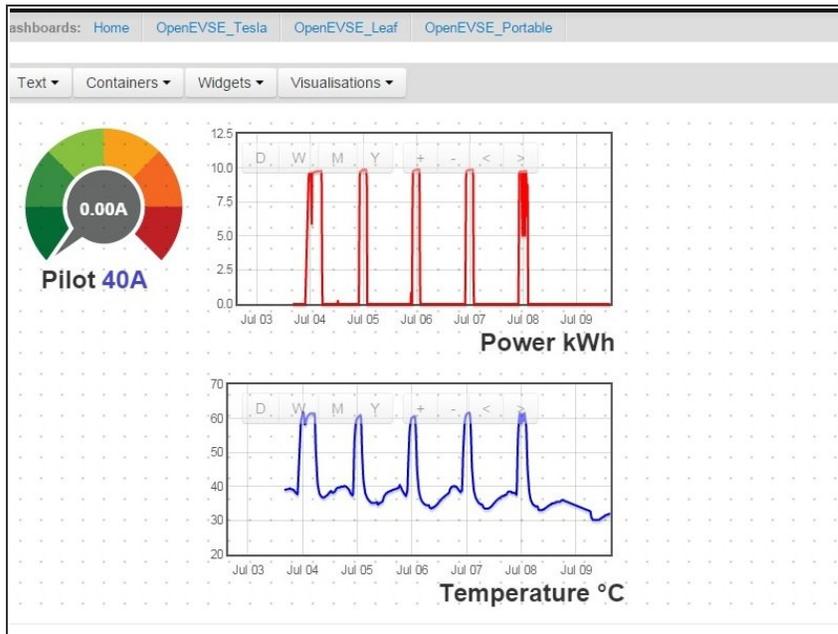
- Select Widgets (Speedometer dial) then select dial.
- Click on grid to place the dial. Move, re-size and adjust as desired.
- Click On the wrench icon to "Configure selected item"
- Select Feed - Set Max Value - Set Units - Pick Type

Step 7 — Setup Dashboard - Rawdata



- Add Rawdata charts for current and temprature. Click on Bargraph icon Visualizations then Rawdata. Click on the grid to add.
 - Click Wrench Icon to Configure selected item.
- Select Feed, Color and Units
- Move and scale as desired.
- Save Changes

Step 8 — Setup Dashboard - Add text and Feed Values



- Add Text Labels
- Feed values can be displayed. Click Widget > Feedvalue