WATER MANAGEMENT MODULE

Water Footprint (blue, green, grey water)

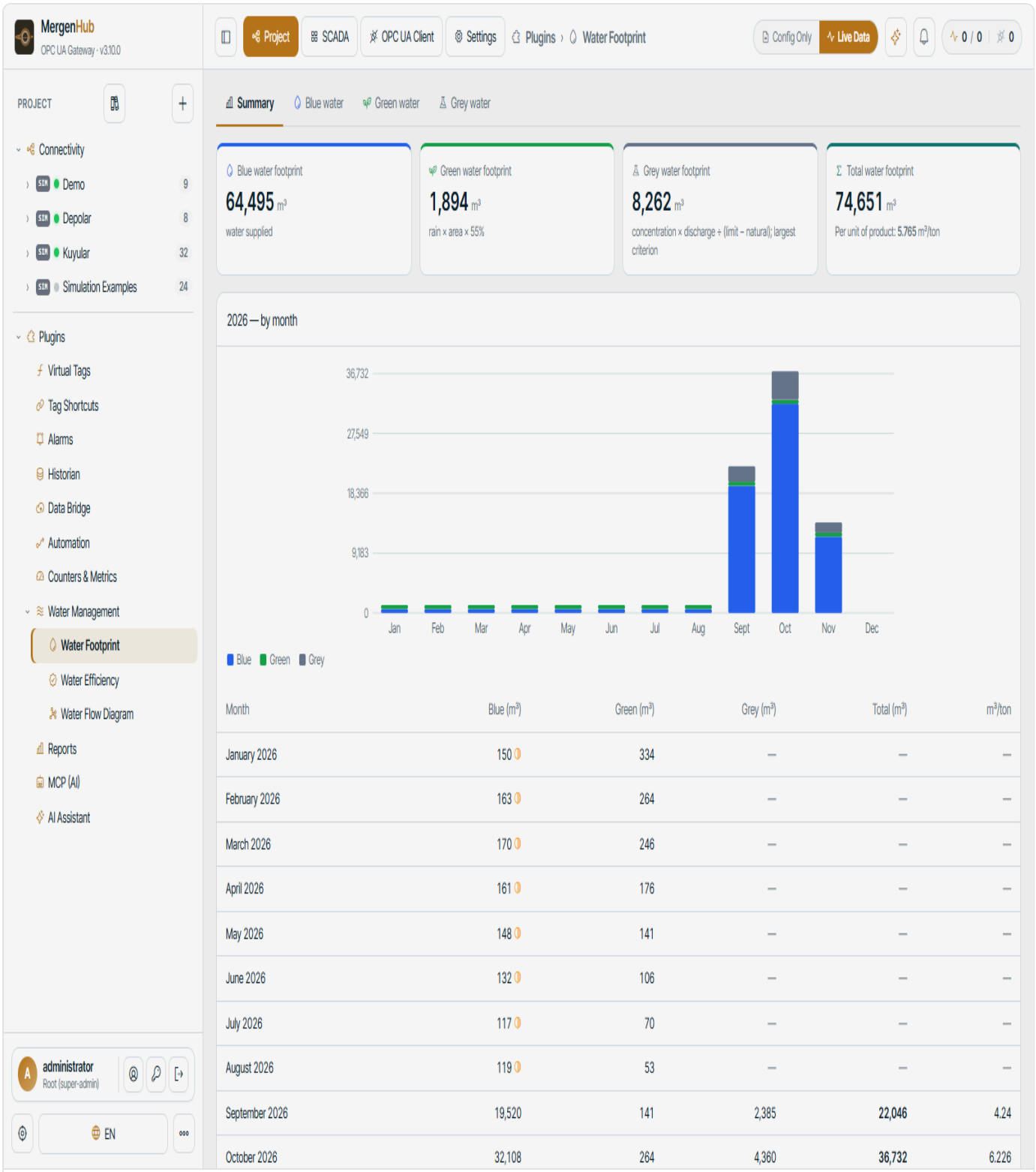
Water footprint monitoring for a site: how blue, green and grey water are computed, the site profile, rainfall and laboratory inputs, monthly and yearly tables, the Excel report.

Online: mergenhub.envest.com.tr/docs/water-footprint

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The Water Footprint page shows the site's **blue**, **green** and **grey** water footprint per month and per year. Saving a site profile generates the required metrics and manual inputs; the page reads them. Page: **Add-ons › Water Management › Water Footprint** (if it is not in the menu, turn on the feature group first).



Water Footprint — monthly blue, green and grey water chart with the summary table

Components

COMPONENT	HOW IT IS COMPUTED
Blue water	Water withdrawn from sources (optionally withdrawn − discharged).
Green water	Rainfall (mm) ÷ 1000 × area (m²) × share used.

COMPONENT	HOW IT IS COMPUTED
Grey water	The water needed to dilute the discharged pollution to the receiving-body limit. Per criterion: concentration × discharge ÷ (limit − natural concentration); the **largest** criterion is taken.
Total	The sum of the enabled components; with a production input, the footprint per unit of product.

> **Note** The year row is not the sum of the months: grey water is computed from the yearly average concentration and the yearly discharge.

Setting it up

1. Make sure your water counters have the right category: sources *Water production / supply*, discharge *Wastewater / discharge* (see Counters and period values).
2. On the Water Footprint page create the site profile and save it. The required metrics and manual inputs are set up automatically.
3. Enter rainfall and area for green water, and laboratory values for grey water, in the boxes on the page. The built-in grey water criteria (COD, BOD, TSS) and their limits are kept in the profile; replace them with your site's discharge permit values.
4. For the footprint per unit of product, provide the production quantity as a manual input.

The setup wizard creates the profile with blue water only; green and grey water need rainfall and analysis data, so those components are added afterwards.

Reading the page

- Tabs: **summary**, **blue**, **green**, **grey**.
- Hovering a month's column in the chart shows the blue, green and grey values, their share of the total and the total.
- Clicking a number in the summary table opens what it is made of (the formula, the input values, the contribution of every counter).
- The "partial" mark next to a number means that some of the selected counters have no data for that period.

Outputs

BUTTON	WHAT YOU GET
Report	A printable output.
Excel	A multi-sheet workbook: summary, blue, green, grey.
CSV	The flat table.

The metrics generated by the water footprint are also published as `_Metrics.<Code>` tags and can be bound to SCADA screens, alarms and OPC UA clients. The AI assistant and MCP clients read the report with the `get_water_footprint` tool.