WATER MANAGEMENT MODULE

# Getting started with Water Management: the setup wizard

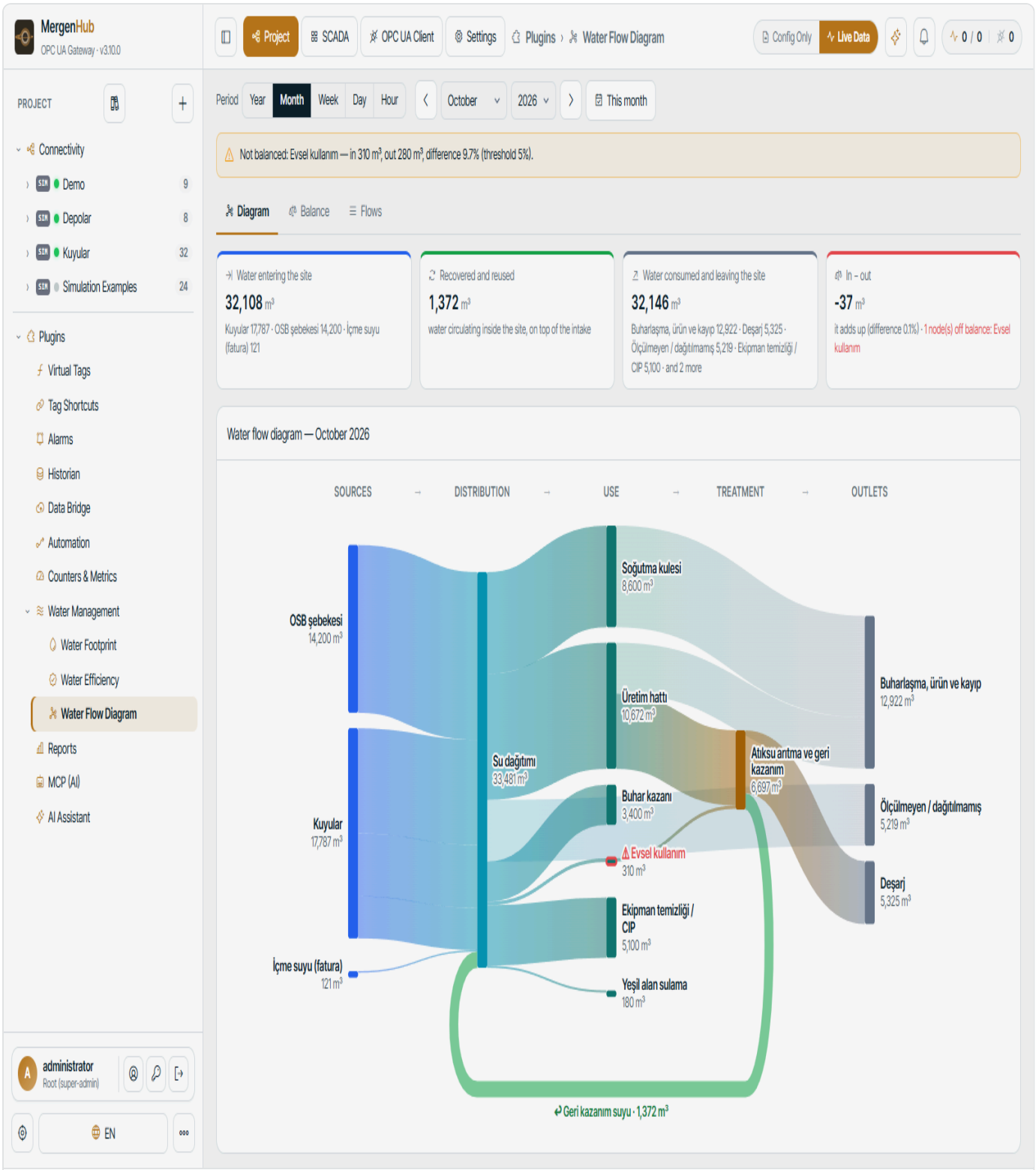
Turning on the Water management feature group and the setup wizard: counters, the flow diagram and the profiles from water sources, uses, discharge and the electricity meter; adding a meter or point later.

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

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Water Management is the module that runs on top of MergenHub's counter and metric engine: it tracks the site's water consumption period by period and produces the **water footprint**, the **water efficiency** tables and the **water flow diagram** from the same counter data. This page explains how to turn the module on and set up your first site with the setup wizard. Module overview: Water Management.




Water Flow Diagram — water flowing from sources to points of use, treatment and discharge

Water Management is an add-on module included in every MergenHub package; no extra license or fee is required. To turn it on, use the **Water management** switch on the **Settings › Feature groups** tab or the setup wizard; both are described below.

## The pages of the module

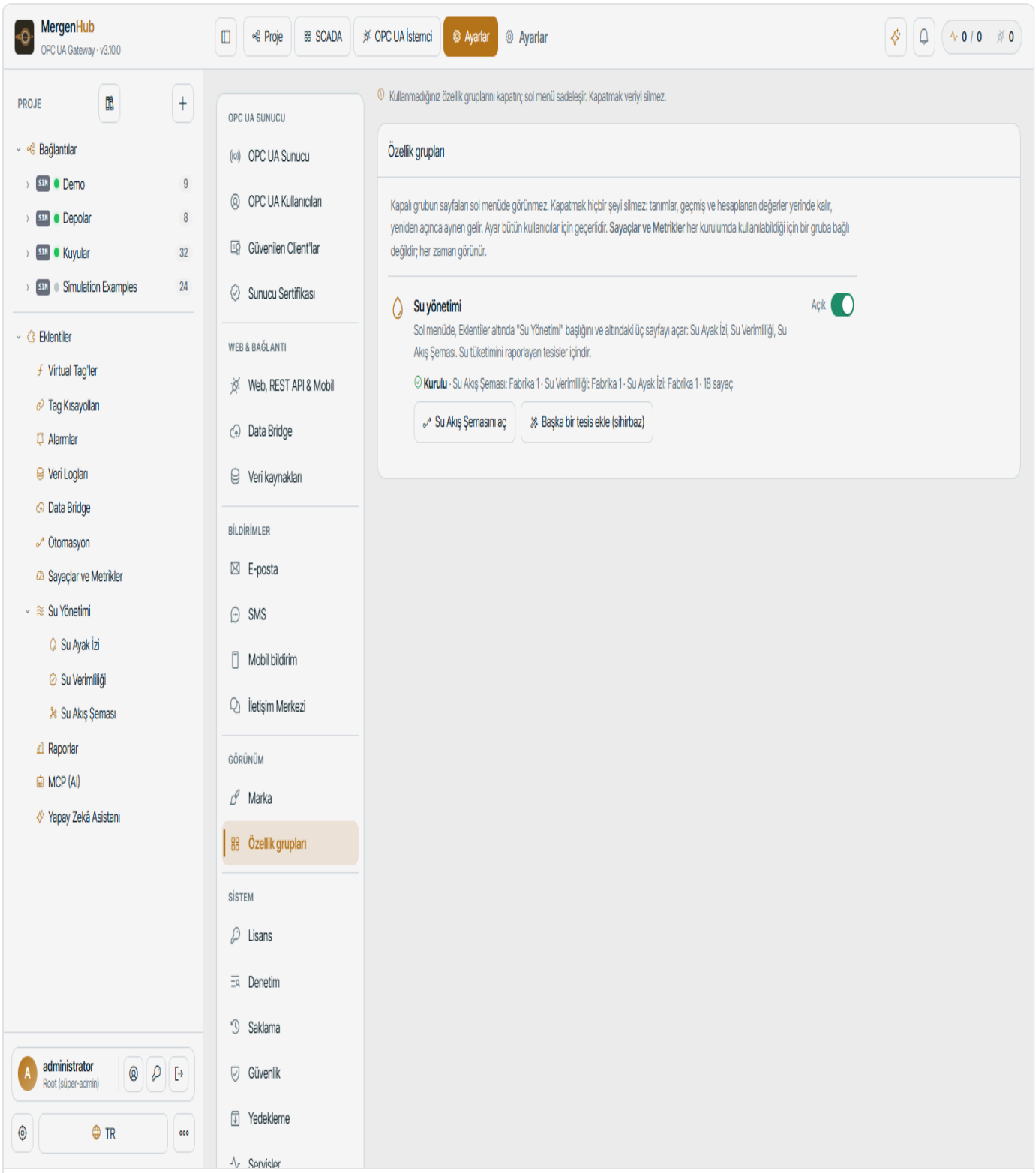
| PAGE | WHAT IT DOES | WHERE |
|---|---|---|
| **Counters and Metrics** | Period consumption from tags (hour, day, week, month, year) and indicators computed with formulas | Add-ons › Counters and Metrics (shown on every installation) |
| **Water Footprint** | Blue, green and grey water; monthly and yearly table | Add-ons › Water Management › Water Footprint |
| **Water Efficiency** | Water sources, uses and wastewater tables; indicators and targets | Add-ons › Water Management › Water Efficiency |
| **Water Flow Diagram** | The site's water map from source to outlet, with a balance check | Add-ons › Water Management › Water Flow Diagram |

Details: Counters and period values, Water Footprint, Water Efficiency, Water Flow Diagram, Reports and export.

## Turning on the feature group

The Water Footprint, Water Efficiency and Water Flow Diagram pages belong to the **Water management** feature group, which is off on a new installation (to keep the left menu simple). Counters and Metrics does not belong to a group; it is shown to everyone who has Counters and Metrics: View.

1. Open **Settings** and go to the **Feature groups** tab.
2. Turn on the **Water management** switch. The setting is saved immediately; the **Water Management** entry and its three pages appear under Add-ons in the left menu.
3. Other users who have Water Management: View see the same menu after they reload the page. The setting applies to the whole server and requires the Server settings permission (the "Feature groups" action). The setup wizard needs Water Management: Manage and Counters and Metrics: Manage together.



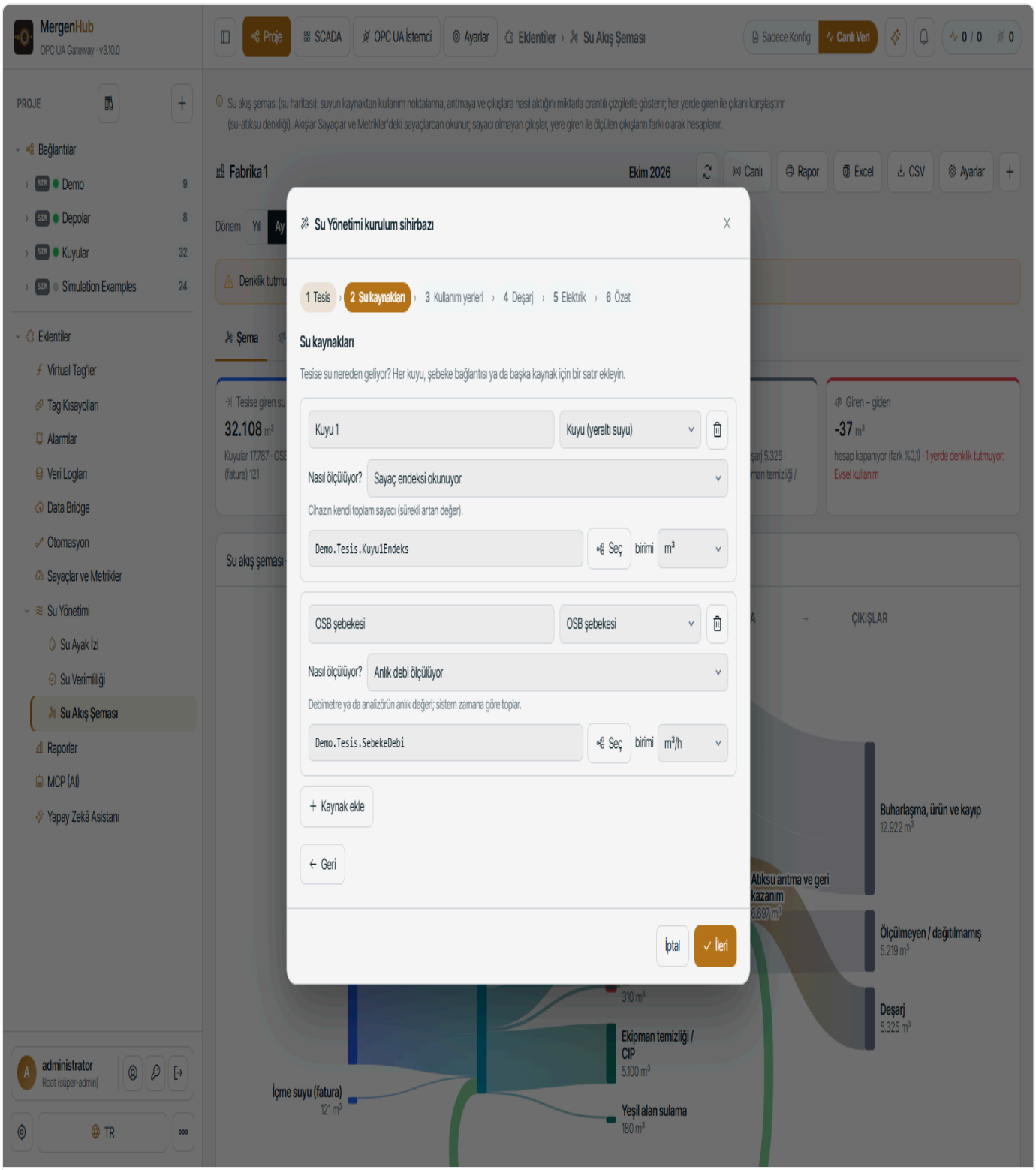

Settings › Feature groups — the Water management switch and the setup wizard button

> **Note** Turning the group off only removes the pages from the menu. Definitions, history and computed values stay in place; when you turn the group on again everything comes back as it was.

## Setup wizard

The wizard sets up water tracking for one site with a few questions. To open it, use the wizard button on the **Settings › Feature groups** tab or the **Setup wizard** button on an empty water page. If you have several sites, run

the wizard once for each.




Water Management setup wizard — the water sources step

Have these ready before you start: the names of the water sources (well, mains) and of the uses, how each is measured and, if it is measured, its tag.

| STEP | WHAT IS ASKED |
| --- | --- |
| 1. **Site** | The site name. Used in report titles and counter groups. |

| STEP | WHAT IS ASKED |
|---|---|
| 2. **Water sources** | For each source: name, kind (well, mains…), how it is measured and its tag. At least one source is required. |
| 3. **Uses** | Where water is used; domestic use (washrooms, showers, canteen) is flagged. |
| 4. **Discharge** | Wastewater outlets. |
| 5. **Electricity** | Optional: the electricity meter (for the kWh/m³ indicator). |
| 6. **Summary** | Lists what will be set up; the **Set up** button creates it. |

For every point the question **How is it measured?** has four answers:

| OPTION | WHEN | COUNTER THAT IS CREATED |
|---|---|---|
| Instantaneous flow | The flow meter gives a rate such as m³/h or L/s | A counter that integrates over time (rate) |
| Meter index | The device gives its own total (m³) | A counter that follows the index (device totalizer) |
| Pulse | The device counts pulses; you enter how many litres one pulse is | A counter that accumulates deltas |
| I will enter it by hand | Nothing is measured (invoice, estimate) | A manual counter; no tag needed, you enter the period values after setup |

The wizard sets up, in this order:

- the counters with the right type and conversion, in groups under the site name: `Su temini` (water supply), `Kullanım` (use), `Atıksu` (wastewater) and `Enerji` (energy). These group names are created in Turkish; you can rename them in the **Categories and groups** window;
- the **water flow diagram** from that site's counters;
- the **water footprint** profile (blue water only: green and grey water need rainfall and analysis data and are added later);
- the **water efficiency** profile;
- the basic indicators (kWh/m³ and loss ratio);
- and turns on the **Water management** feature group if it is off.

> **Warning** If a step fails, what has been set up so far is not rolled back; the result screen lists which steps completed and what needs to be fixed.

## After setup

1. On the **Counters and Metrics** page check that the **Today** column of the counters is increasing. If no value arrives, click the counter: the window shows the last value and quality of the input tag.
2. Enter period values for manual counters (click the counter, then **Enter period value**).
3. Open the **Water Flow Diagram**; click a place or a flow to correct its name and counter.
4. For green and grey water, add rainfall, area and laboratory values to the **Water Footprint** profile.

## Adding a meter or point later

When a new well, mains connection, use, discharge or electricity meter is added to a site after setup, you do not have to create the counter by hand and link it to the diagram and the tables one by one: the **Add meter / point** wizard uses the rules of the first setup. It opens from **Add point** on the Water Flow Diagram and Water Efficiency pages, **Add water point** on Counters and Metrics, and **Add meter / point** in *Settings › Feature groups*.

- Choose the role (water source, use, discharge, electricity meter), the name, how it is measured and the tag. The counter is added to the flow diagram as a place + measured flow and to the water efficiency profile as a row; the water footprint picks it up automatically through its category + group selection. Indicators the site is missing (kWh/m³, water loss ratio) are set up.
- On every change the server preview lists what will be set up, where it will be added and what will use it automatically; **Add** is enabled only while the preview is clean. Existing places, flows and rows are never deleted; if the site already has a counter with the same name the wizard does not set it up. If a summing flow in the diagram already covers the counter, no new flow is opened (water is never counted twice).
- To attach a counter to a measured flow in the diagram that has none, use **Connect a meter (wizard)** in the place or flow window. The permissions are the same as for the first setup.

## Setting up with the AI assistant

If the administrator has enabled "assistant may make changes", the in-app assistant can do the same setup: "I have three wells, these are their tags; set up water tracking". The assistant runs the wizard and turns on the feature group if needed; every write goes to the audit log. Deleting and changing existing definitions is done in the interface.