

Water Use Tracker

How-to guide: what the workbook does, how to use it and what every number means.

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Water Use Tracker

Log monthly water intake, discharge, charges and sub-meters, and see water per unit of output, cost per unit and leaks.

For: Plant, utilities and EHS managers in food and beverage, chemical and other water-intensive plants, and anyone with a water reduction target.

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Quick start

1. On Setup, type your plant name, currency, the volume unit your meters and bills use, your unit of output and targets, then replace the example sub-meters.
2. On Monthly Water, add one row per month: intake by source, recycled water used, discharge, supply and wastewater charges, and production.
3. On Sub-meters, add each meter's volume per month to see where the water goes and how much is unmetered.
4. Read the Check columns: anything other than OK names the problem in words.
5. Open the Dashboard; change the '12 months ending' date to look at any year.

What is in the workbook

Start Here	Read this first: what the workbook does and how to use it.
Setup	Plant, currency, volume unit, output unit, targets and the sub-meter list.
Monthly Water	One row per month: intake by source, reuse, discharge, charges and production.
Sub-meters	Water per sub-meter per month: where the water goes.
Dashboard	Water intake, intensity, cost, reuse and where the water goes, for any 12 months.
Method	How every number is calculated, with assumptions, limits and sources.
Verify	Self-check: the workbook's formulas recomputed on fixed inputs against an independent reference.

What each number means

Quantity	How it is calculated	Units
Volume conversion	Typed volume x m3 per unit: 1 for m3 and kL, 0.001 for L, 0.003785411784 for US gal, 0.00454609 for imp gal.	m3
Intake	(Mains + groundwater + other intake) x m3 per unit. Recycled water is not intake.	m3
Consumed	Intake - discharge: water that left in product, by evaporation or as losses.	m3

Quantity	How it is calculated	Units
Water cost	Supply charges + wastewater charges.	currency
Intensity	Intake / production. Over several months: total intake / total production. Status: On target at or below the target, Near target up to 5% above.	m3/unit
Cost per m3, cost per unit	Water cost / intake; water cost / production.	currency
Reuse share	Recycled / (intake + recycled): the share of the water used that was used again.	%
Unmetered water	(Intake - sum of the sub-meters in the same months) / intake, against the limit on Setup.	%
Sub-meter cost (est.)	A meter's m3 x the average cost per m3: an estimate, as wastewater charges depend on where the water ends up.	currency

Assumptions, limitations, sources and the self-check (the Verify sheet, which recomputes the workbook's formulas on fixed test inputs) are in the workbook. The last page shows the Dashboard with the example data for Kestrel Beverages, a fictional business.

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Engineering estimates for planning and improvement work. Verify the results against your own process, data and standards before you rely on them.

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Water intake, intensity, cost, reuse and where the water goes, for any 12 months.

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12 months ending

First month shown

Volumes in m3 (converted from m3); money in EUR; output in kL product. Leave the date blank to see the latest 12 months.

Oct 2025

Months in the log shown

Last month shown

12

Sep 2026

WATER INTAKE (M3)	INTENSITY (M3/KL PRODUCT)	WATER COST (EUR)	COST PER UNIT (EUR)
131,626	2.42	298,428	5.4900
All sources, months shown	Target 2.20 Above target	Supply plus wastewater charges	Water cost / production

