



TOMORROW ENERGIES

[INFORMATIE_BROCHURE]

Energiebeheer voor **Industrie.**

Energiemanagement was nog nooit zo eenvoudig. Realtime inzicht van hoofdmeter tot machinesniveau. Plug-and-play. Gemiddeld 14% besparing.

14%

ENERGIEBESPARING

90 min

INSTALLATIETIJD

€20

PER METER/MND

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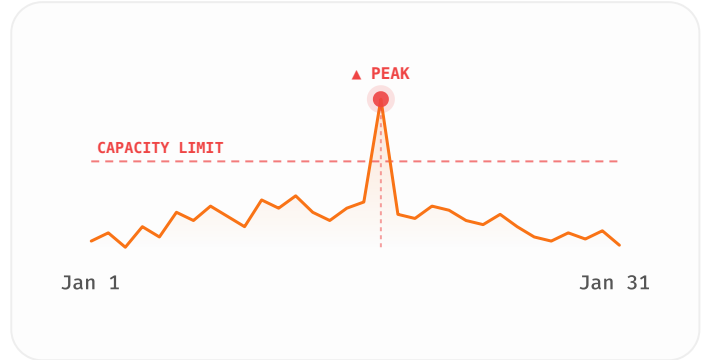
Want to know more? Get in touch via contact@tomorrow-energies.nl or schedule a demo via the QR code on the last page.

Energy threatens your core operations without you knowing.

01 GRID CONGESTION

Peak demand can limit your growth or halt production

If you exceed your contracted capacity too often, your grid operator can disconnect you. Without sub-metering, you don't know which machine caused the peak.



TOTAL CONSUMPTION **48.320 kWh**

BREAKDOWN PER INSTALLATION

Compressor A	unknown
Production line 1	unknown
Central HVAC	unknown
Hall lighting	unknown

02 INSIGHT

Your energy bill is rising, but you can't see where it goes

A smart meter only shows the total. Which production line, installation, or building consumes what? Without that insight, you're saving on gut feel.

03 COMPLIANCE

Auditors are asking for data you don't have

EED, CSRD, and ISO 50001 require verifiable energy measurements per process. Auditors don't accept estimates.

AUDIT SCORE 0 / 4

- ✗ EED – measurement per installation **Mar 31**
- ✗ CSRD scope 2 calculation **Apr 30**
- ✗ ISO 50001 energy balance **May 15**
- ✗ Audit trail measurement data **Jun 30**

Live insight in 4 steps.

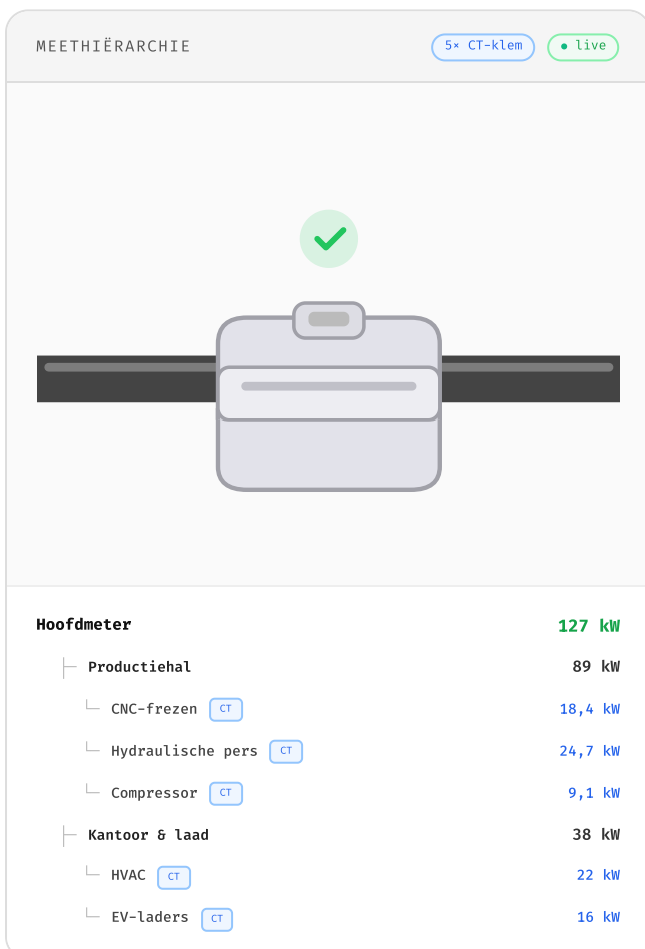
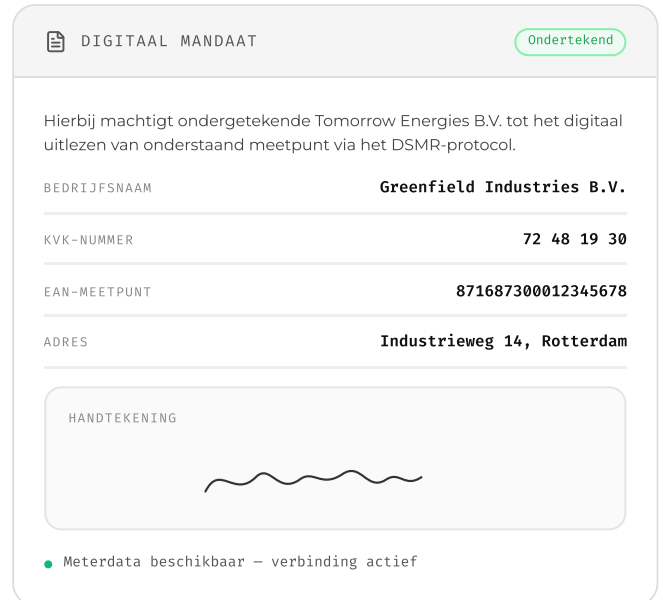
From main meter to machine level — plug-and-play, no downtime, live within 90 minutes.

01 5 min

Connect your main meter.

Fully digital — no technician, no appointment with your metering company.

- ✓ Meter-operator independent
- ✓ 15-minute interval data
- ✓ Historical data import



02 30 min

Clip the clamps.

CT clamps clip around existing cables. No electrician, no downtime.

- ✓ Plug & play installation
- ✓ Machine-level insight
- ✓ Build hierarchy as needed

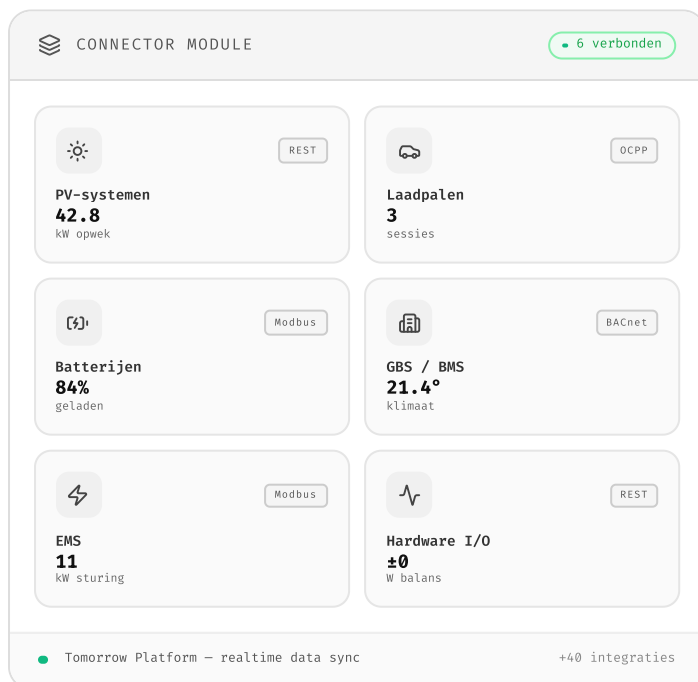
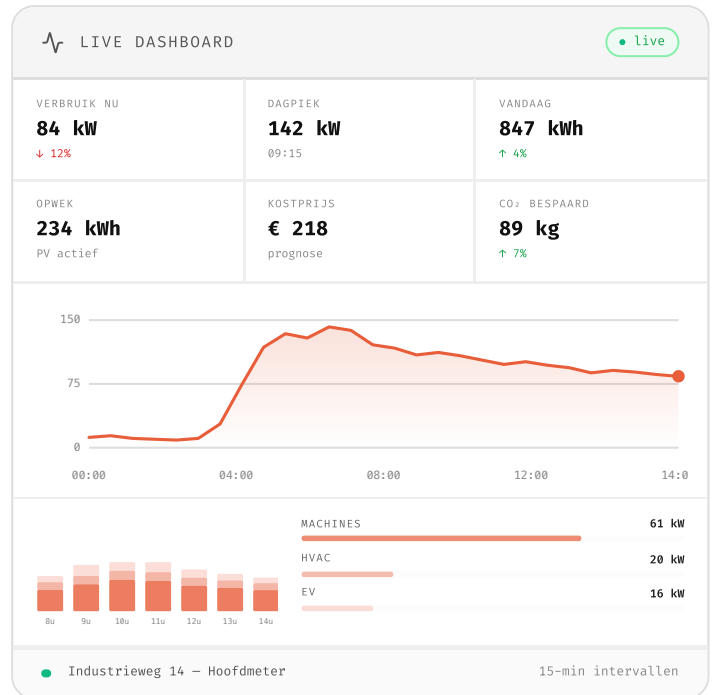
Continued: step 3 & 4.

03 Instant

Live dashboard.

Real-time insight at every measurement point. From portfolio to individual machine.

- ✔ Consumption, generation & peak at a glance
- ✔ Automatic alerts on deviations
- ✔ Benchmarking across sites



04 Self-configured

Connect your systems.

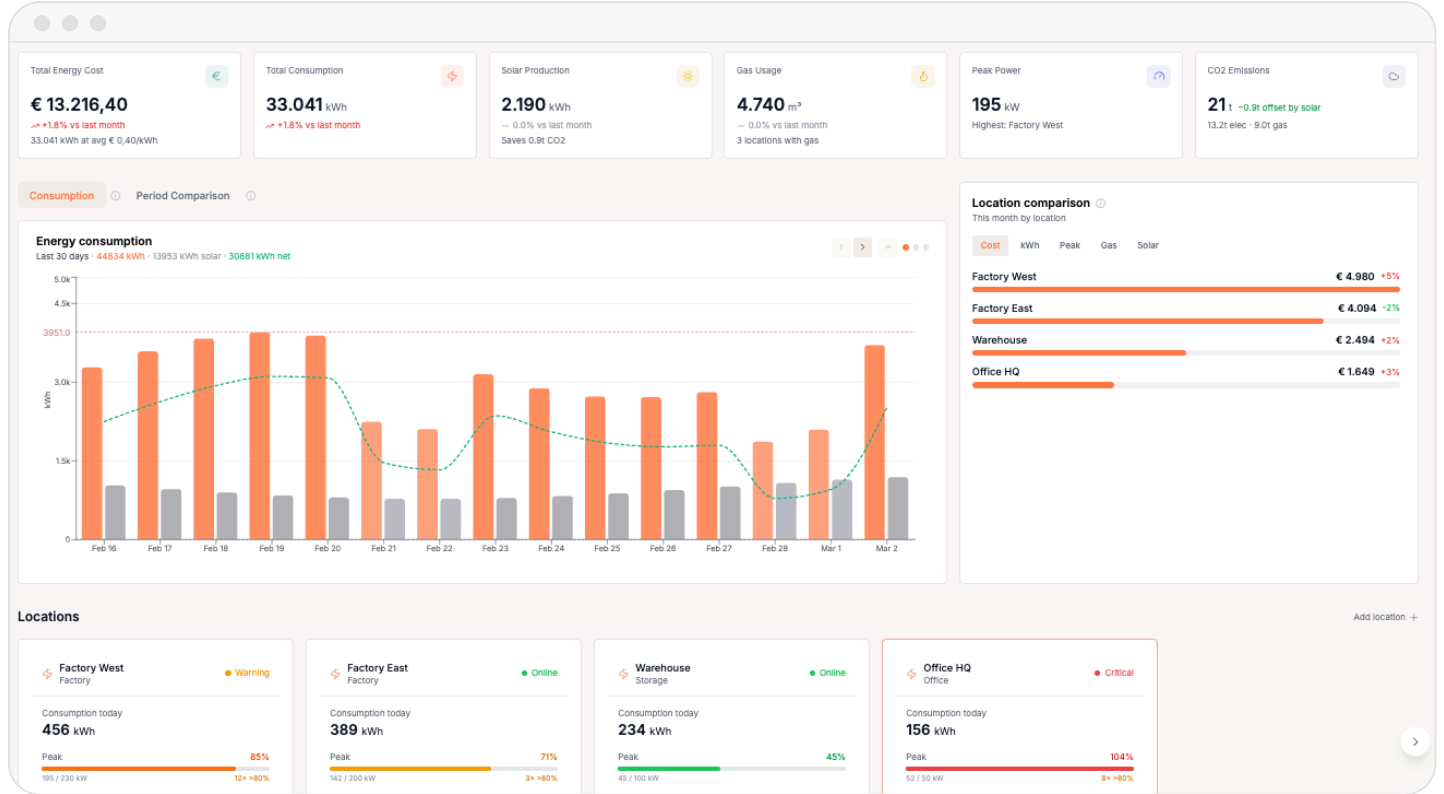
Anything that speaks API, Modbus or OCPP connects via the Connector module.

- ✔ Chargers, PV, batteries, BMS, EMS
- ✔ OCPP · Modbus · BACnet · REST
- ✔ Tomorrow hardware also available

Your entire portfolio. One screen.

All locations, costs, consumption and CO₂ in one view — real-time, no manual input.

● PORTFOLIO — ● SITE — ● DETAIL



€ 13.216
ENERGY COST · THIS MONTH

33.041 kWh
TOTAL CONSUMPTION · ALL SITES

195 kW
PEAK DEMAND · FACTORY WEST

21 t CO₂
SCOPE 2 EMISSIONS · ALL SITES

SMART ALERTS

Automatic alerts on peak risk, anomalous consumption or outage — before it's too late.

BENCHMARKING

Compare sites on cost, kWh/m² and CO₂. Instantly see which site needs attention.

CO₂ REPORTING

Scope 2 per site, exportable as PDF or CSV. Audit-proof for CSRD, EED and ISO 50001.

PEAK DETECTION

Real-time capacity usage per quarter-hour. Alarm before you risk a peak surcharge.

SOLAR MONITORING

Measure generation and consumption. Optimise self-consumption and maximise export.

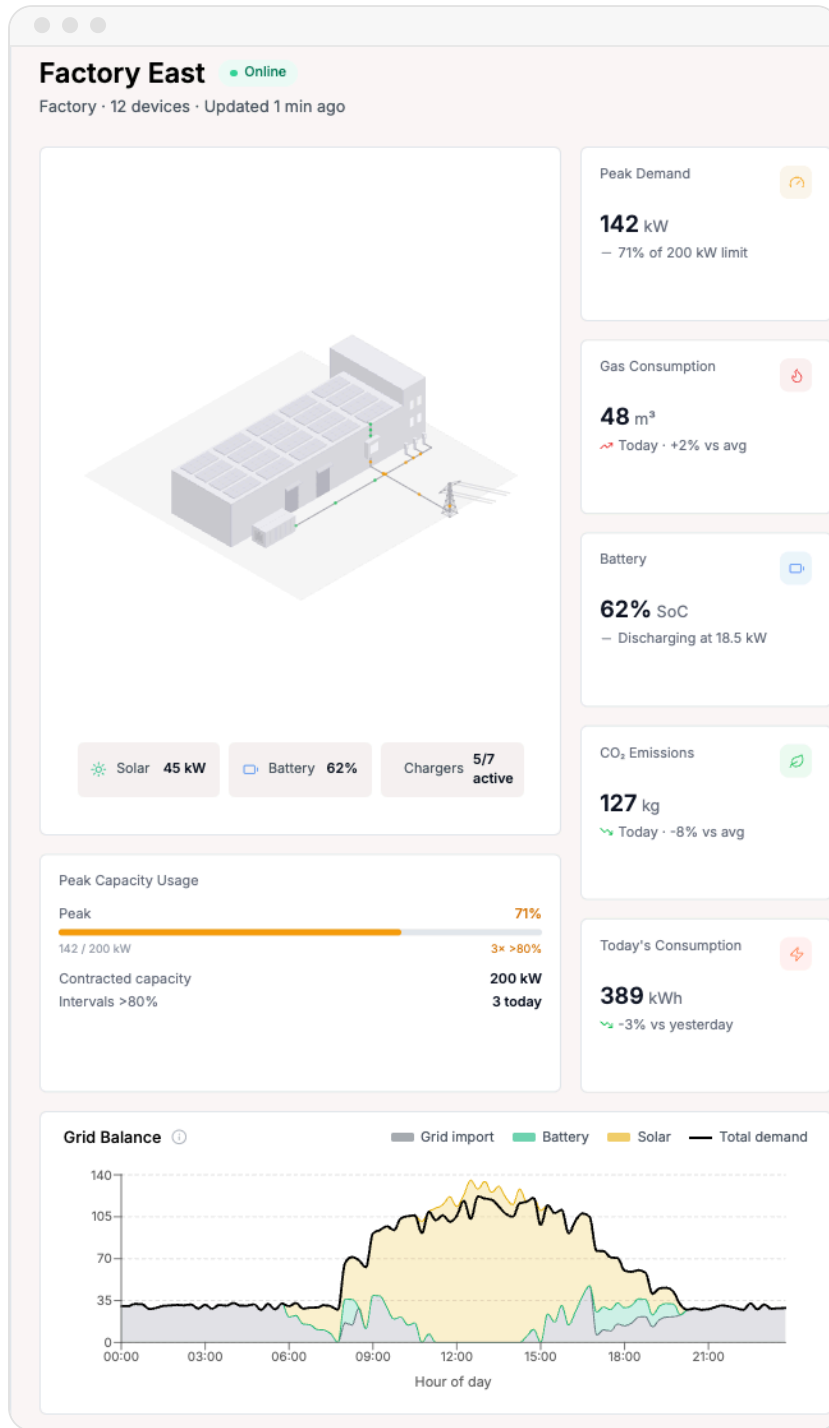
REPORTS

Weekly or monthly energy reports, automatically sent to your team or clients.

Every site. Every minute.

Zoom into one site: peak, solar, battery, chargers and CO₂ — all live.

● PORTFOLIO — ● SITE — ● DETAIL



01 Peak detection

142 kW / 200 kW · 71%

3x above 80% of capacity limit today. Automatic alert before you risk a peak surcharge.

02 Solar & battery

45 kW solar · battery 62%

Battery discharging at 18.5 kW. 5 of 7 chargers active. Real-time view of generation, storage and consumption.

03 CO₂ · Gas · Verbruik

127 kg CO₂ · 48 m³ gas

389 kWh consumed today, -3% vs yesterday. CO₂ scope 2 exportable as PDF or CSV — audit-proof for CSRD and EED.

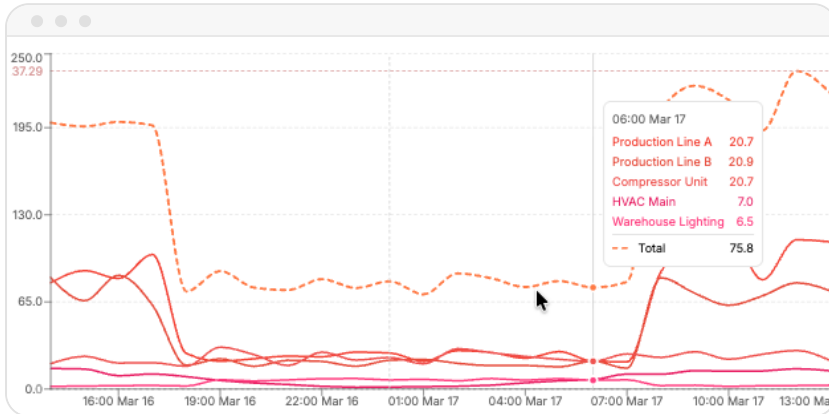
[ALSO CONNECTED]

- SOLAR PANELS**
 Generation and self-consumption per inverter, real-time.
- EV CHARGERS**
 Charge profiles, peak load and sessions per charger.
- BATTERY STORAGE**
 SoC, charge/discharge cycles and grid interaction per system.
- SITE REPORT**
 Automatic monthly or weekly report per site, ready for client or auditor.

Down to machine level.

From total consumption to individual installation — sub-meters and connected systems in one structure.

● PORTFOLIO — ● SITE — ● DETAIL

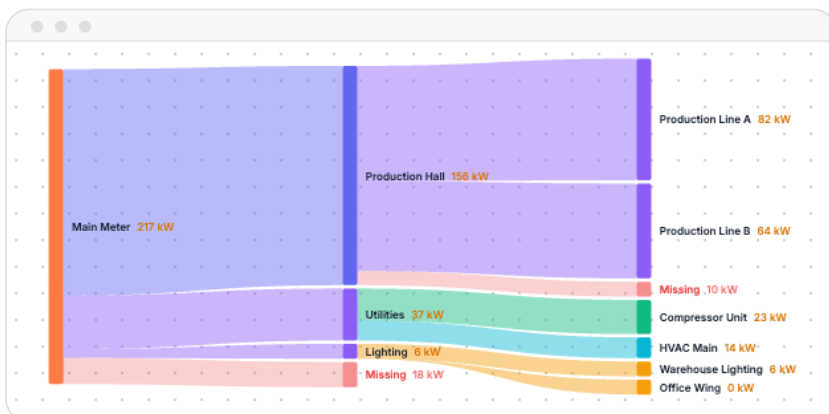
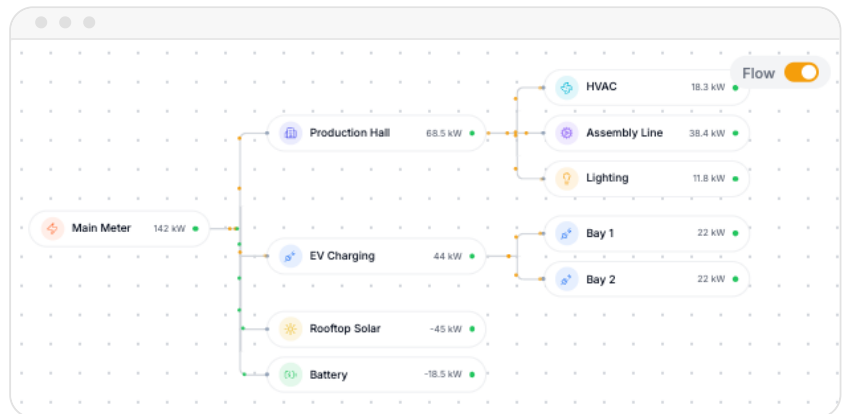


[SUB-METERS]

- Per circuit or machine**
CT clamps clip around any cable — no downtime. Measurement every minute.
- Custom hierarchy**
Group meters under sites and portfolio. Drill down in three clicks.
- Anomaly detection**
Abnormal consumption auto-detected with severity score.

[METER TREE]

- Hierarchical overview**
All meters and their relationships in one structure — from portfolio to individual connection.
- Compare periods**
Select two periods side by side and instantly see where consumption rose or fell.
- Navigate per level**
Switch between portfolio, site and sub-meter — each level shows its own detail view.



[ENERGY FLOW]

- Where does energy go?**
Visualise the full energy flow — from grid and solar to every consumer.
- Spot unmetered use**
The gap between main meter and sub-meters reveals losses or unmonitored consumption.
- Solar self-consumption**
See per quarter-hour how much generated energy is consumed directly versus exported to the grid.

Built for every sector.

Tomorrow Energies works in every industry where energy is a cost, a risk or a compliance obligation.



INDUSTRY & MANUFACTURING

Which machine is causing your peak demand?

- CT clamps per machine — no downtime, no electrician needed
- Peak detection per quarter-hour with automatic alarm before capacity surcharge
- EED, ISO 50001 and CSRD compliance-ready — exportable as PDF
- Benchmarking across production lines, shifts and sites

-18%

PEAK LOAD

90 min

INSTALL

4.3×

ROI



PORTS & LOGISTICS

How much shore power does each vessel actually consume?

- Shore power per berth or quay at 1-minute resolution
- Automatically charge back energy costs per operation or client
- CO₂ per port call visible — CSRD and EU ETS-ready
- Integration with port management systems via REST API or Modbus

Per berth

METERING

Auto

BILLING

CSRD

READY



PROPERTY MANAGEMENT

Are you paying energy costs your tenants are causing?

- Bill each tenant based on actual consumption
- Automatic invoices via Stripe — no manual calculation
- kWh/m² benchmarking across your entire portfolio
- Make energy label improvements demonstrable for investors

Per tenant

BILLING

Auto

REPORTS

CSRD

READY



COMMERCIAL REAL ESTATE

Do you know which unit is driving up your shared costs?

- Multiple tenants, one overview — from building to individual unit
- CO₂ reporting per property for CSRD and BREEAM
- Smart charging integration: EV chargers, solar and battery in balance
- Consumption patterns per unit — anomaly detection on deviations

Per unit

INSIGHT

BREEAM

READY

Auto

ALERTS

Hardware for every situation.

Two sensor series, scalable from one machine to multiple locations.

Plug-and-play series

Quick insight, low barrier

4G / LoRa

1-min interval

IP30

- + 1 or 3 phase systems
- + Suitable up to 3,000 A
- + Install without downtime
- + Also for temporary measurements
- + Inductively powered — no external supply
- No power quality analysis

Precision series

Maximum accuracy, MID-certified

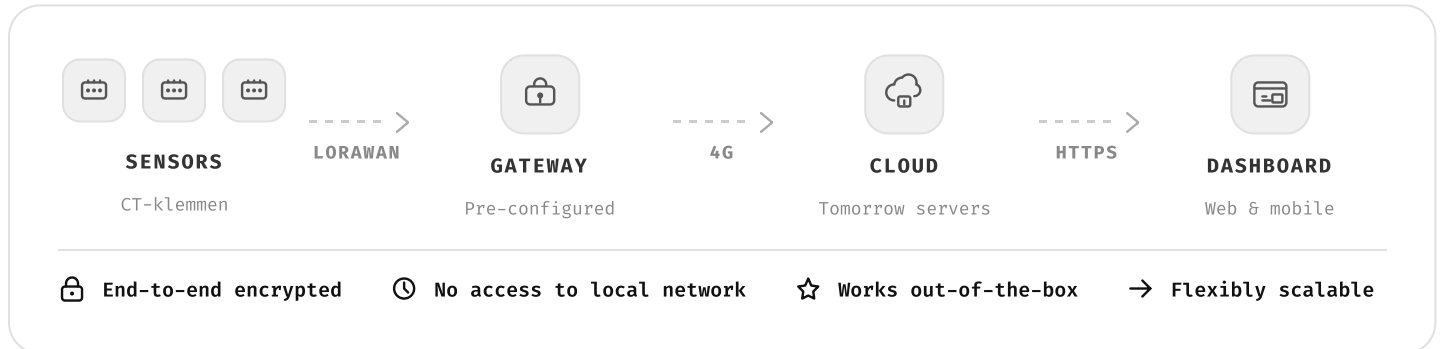
4G / LoRa

1-min interval

MID / IP65

- + Power quality analysis
- + MID certified for billing
- + Suitable up to 9,000 A
- + Measure generation and consumption individually
- + Reactive power and harmonics
- Higher installation costs

[NETWORK_ARCHITECTURE]



[SPECIFICATIONS]

MEASUREMENT INTERVAL	1 - 15 min
PHASES	1 of 3
MAX. STROOM	3.000 A (plug) / 9.000 A (precision)
PROTOCOL	OCPP · Modbus · BACnet · REST
CERTIFICATION	MID (precision series)
INSTALLATION	No downtime, no electrician
CONNECTIVITY	4G / LoRa
CLOUD STORAGE	Unlimited, 5-year retention

Hardware specifications.

Eastron SDM LoRa · Milesight CT3 · Milesight CT1 — LoRaWAN EU868 · Inductively powered

Eastron SDM LoRa Precision · MID-certified		Milesight CT3 3-phase wireless clamp		Milesight CT1 1-phase wireless clamp	
MID IP65 1 & 3 fase		3-fase IP67 LoRa		1-fase IP67 LoRa	
MAX. CURRENT	9.000 A	CURRENT RANGE	0-300 A	CURRENT RANGE	0-100 A
ACCURACY	Class 1	ACCURACY	±1%	ACCURACY	±1%
POWER	85-265 V AC	POWER	Inductive (CT)	POWER	Inductive (CT)
CONNECTIVITY	LoRaWAN EU868	CONNECTIVITY	LoRaWAN EU868	CONNECTIVITY	LoRaWAN EU868
ALSO MEASURES	PF · THD · kVAh	INTERVAL	1-60 min	INTERVAL	1-60 min
IP RATING	IP65	IP RATING	IP67	IP RATING	IP67
CERTIFICATION	MID	MOUNTING	Snap-on	MOUNTING	Snap-on

[CUSTOM CT CLAMPS & ROGOWSKI]

MAX. Ø CABLE	AMPERAGE	PHASE	TYPE
<16 mm	0-50 A	1 & 3	CT klem
<16 mm	50-100 A	1 & 3	CT klem
<24 mm	100-300 A	1 & 3	CT klem
<36 mm	300-500 A	3	CT klem
<50 mm	500-1.000 A	3	CT klem
<100 mm	1.000-2.000 A	3	Rogowski
<100 mm	2.000-3.000 A	3	Rogowski
<100 mm	>3.000 A	3	Rogowski

[PLUG-AND-PLAY DATALOGGER]

ACCURACY	±1%
SAMPLING RATE	3,3 kHz
POWER SUPPLY	Inductive or USB-C
OPERATING TEMP.	-20°C tot +70°C
ANTENNA	SMA-F
CONFIGURATION	USB-C / Downlink
IP RATING	IP30
MOUNTING	Via clamp
MIN. INPUT	2% van max A

Plug into your existing installations.

Direct connection via open industrial protocols. No extra hardware, no vendor lock-in.

BUILDING MANAGEMENT SYSTEMS



Realtime read-out

Measurement data via BACnet or Modbus TCP into the platform.



Alarms & signals

Status signals and alarms per installation or zone.



Zone energy balance

Consumption per zone, floor or building made visible.



ENERGY & POWER ELECTRONICS



Consumption metering

Active and reactive power per phase and connection.



Power quality

Harmonics, voltage quality and THD analysis.



Peak detection

Detect peak consumption and capacity overruns.



BATTERY ENERGY STORAGE (BESS)



State of Charge

Realtime SoC and remaining capacity per system.



Charge & discharge

Power data per cycle including depth and duration.



Efficiency & degradation

Round-trip efficiency and capacity fade over time.



EV charging, solar and open protocols.

Connect chargers, inverters and batteries via OCPP, Modbus or REST — and manage everything from one platform.

EV CHARGING INFRASTRUCTURE



Charge point status

Status, availability and fault alerts per charge point.



Session & energy

Consumption per session, user, time and location.



Smart charging

Control charge power based on grid capacity.



SOLAR & INVERTERS



Production data

Realtime and historical output per inverter.



Inverter status

DC side, string-level and inverter health monitoring.



Performance Ratio

Yield and PR per period, including specific energy.



OPEN PROTOCOLS



Modbus & BACnet

Universal standard for virtually any industrial device.



OCPP & OPC-UA

OCPP for charging, OPC-UA for production installations.



IEC 61850 & M-Bus

IEC 61850 for MV switchgear, M-Bus for heat and water.

MODBUS TCP/RTU BACNET IP/MSTP OCPP 1.6/2.0.1 OPC-UA MQTT DSMR P1 IEC 61850
M-BUS DNP3 SUNSPEC

Your system not listed?

No problem — most industrial devices can be connected via Modbus TCP/RTU, BACnet or another open protocol. If your system isn't listed, we'll gladly explore whether we can realise or develop the integration for you. → contact@tomorrow-energies.nl

Simple, transparent pricing.

Transparent pricing · No hidden costs · Real-time from day 1



Main Meter

Digital readout via
PI or DSMR

€20 /mo

No hardware needed

WHAT'S INCLUDED

- ✓ Digital smart meter connection
- ✓ Consumption data every 15 minutes
- ✓ Total consumption, peaks and costs
- ✓ Web dashboard with analytics
- ✓ Email alerts
- ✓ Monthly reports



Sub-Meter

Tomorrow hardware
on-site

€20 /mo

Installation via partner
network*

WHAT'S INCLUDED

- ✓ CT-clamp sensor, hardware included
- ✓ Installation via certified partner
- ✓ 1-minute measurement — high resolution
- ✓ Per circuit or machine measurement
- ✓ Peaks, harmonics, power factor
- ✓ Email alerts and reports



Device

Batteries, chargers
and inverters

€5 /mo

Combine with sub-meters

WHAT'S INCLUDED

- ✓ Connection via API or Modbus
- ✓ Chargers, batteries, PV, HVAC
- ✓ Real-time status per device
- ✓ Device-specific analytics
- ✓ Compare efficiency over time
- ✓ Identify device-level waste



Deep Dive

30-day energy audit

€3.000

10 sub-meters · 30 days rental

- ✓ 10 professional sub-meter devices
- ✓ 30 days detailed monitoring
- ✓ Identify savings opportunities
- ✓ Full installation and setup
- ✓ Comprehensive energy audit report
- ✓ Option to keep devices after trial

Compare plans.

Feature	MAIN METER €20	SUB-METER €20	DEVICE €5	DEEP DIVE €3.000
Energy monitoring dashboard	✓	✓	✓	✓
Email alerts and monthly reports	✓	✓	✓	✓
15-minute data collection	✓	✓	✓	✓
1-minute measurement (high res)	×	✓	✓	✓
Hardware (CT-clamp) included	×	✓	×	✓
Professional installation	×	✓	×	✓
Per-circuit or machine measurement	×	✓	×	✓
API or Modbus connection	×	×	✓	✓
Per-device analytics	×	×	✓	✓
Full energy audit report	×	×	×	✓
30-day trial with keep option	×	×	×	✓

* Professional installation available through our certified partner network.

TRUSTED BY 100+ ORGANISATIONS



● Free demo · 30 minutes

Discover how much you can save.

In 30 minutes we show you how Tomorrow Energies works in your situation — including a first estimate of your savings potential.

14%

AVERAGE ENERGY SAVINGS

**90
min**

INSTALL WITHOUT DOWNTIME

4.3×

RETURN ON INVESTMENT

[CONTACT]

WEBSITE

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SCAN FOR DEMO

ENSCHEDÉ

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TOMORROW ENERGIES