

EVERY kWh, ATTACHED TO A MACHINE

Real-time monitoring · Cost per unit produced · Standard ready reporting

Most plants learn what energy cost them after the month closes. PlantWiz shows which machine, which shift and which process spent it — while the shift is still running.

WHAT WE MEASURE

Electrical

- ▶ kW, kVAR, kVA and power factor per feeder
- ▶ Voltage and current, phase by phase
- ▶ THD and harmonics to the 31st order
- ▶ Maximum demand, import and export

Utility & Process

- ▶ Steam flow and consumption per shift
- ▶ Compressed air flow and pressure
- ▶ Water and gas consumption
- ▶ Solar generation against grid draw

Auto-Calculated KPIs

- ▶ SEC — kWh per unit, per tonne, per batch
- ▶ Energy cost per unit, every shift
- ▶ Idle waste — machines ON, not producing
- ▶ Carbon footprint (CO₂ eq.) per shift

HOW IT WORKS

01 INSTALL

CTs, meters and sensors on every feeder. No production stop, no rip-and-replace.

02 COLLECT

kW, kVA, power factor, THD and harmonics recorded continuously via the PG-101 gateway.

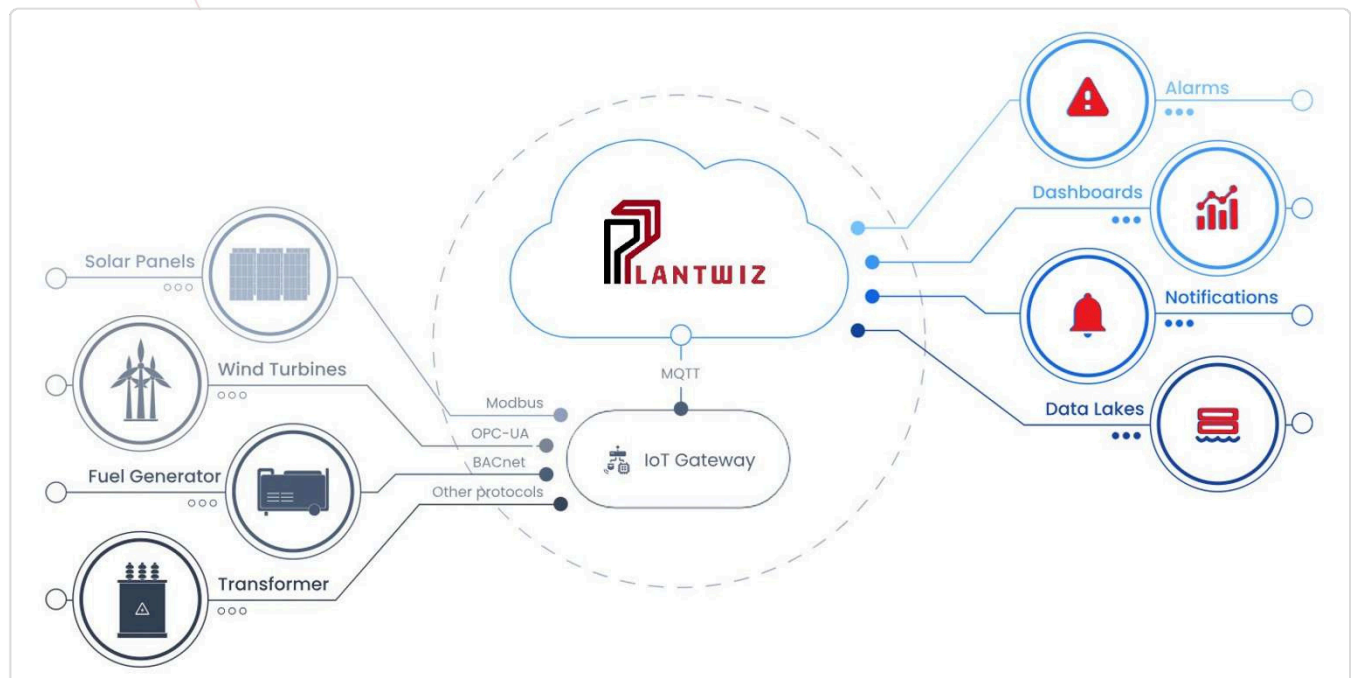
03 ANALYSE

Live dashboards — per-machine kWh, cost per unit, energy balance. Every 5 seconds.

04 ACT

Alerts for idle waste, PF breach and demand limits — by app, email or WhatsApp.

SEE IT AS IT HAPPENS — THE LIVE ENERGY DASHBOARD



✓ Voltage, current and power, refreshed live

✓ Voltage and current THD for power-quality faults

✓ Baseline vs actual — deviation flagged, not hunted

WHERE THE HIDDEN COSTS LIVE

Power Factor

A low PF is a silent monthly penalty. Tracked per feeder, flagged before it reaches the bill.

Harmonics

VFDs, welding and furnace loads distort your supply. THD measured to the 32nd order.

Maximum Demand

One 15-minute breach is penalised. You get 20 minutes' warning to shed load.

Leakage & Losses

Air leaks, transformer losses, standby draw. Typical finding: 8–12% of consumption.

CONNECTS TO WHAT YOU ALREADY HAVE

DEVICES & ASSETS MONITORED

- ▶ Energy meters — all brands, Modbus/RS-485 or TCP/IP
- ▶ ACBs and MCCBs — every trip and alarm logged
- ▶ Generators and UPS — fuel, battery health, load
- ▶ Transformers — load, winding temperature, losses
- ▶ Stabilizers — input/output voltage and efficiency
- ▶ Solar — generation, green contribution, carbon offset

SUSTAINABILITY & ESG

- ✓ Carbon footprint — CO₂ eq. per tonne, per shift
- ✓ ISO 50001 and BEE — aligned data and SEC trends
- ✓ Standard reporting — Scope 1 & 2, energy intensity
- ✓ Renewable contribution %, reported automatically

Exporting to Europe or the US? Carbon border adjustment means auditors will ask for this data. PlantWiz already has it.

HOW IT CONNECTS — A LIVE DEPLOYMENT

FIELD

Energy meters and ACBs on Modbus RS-485 loops

CONTROL

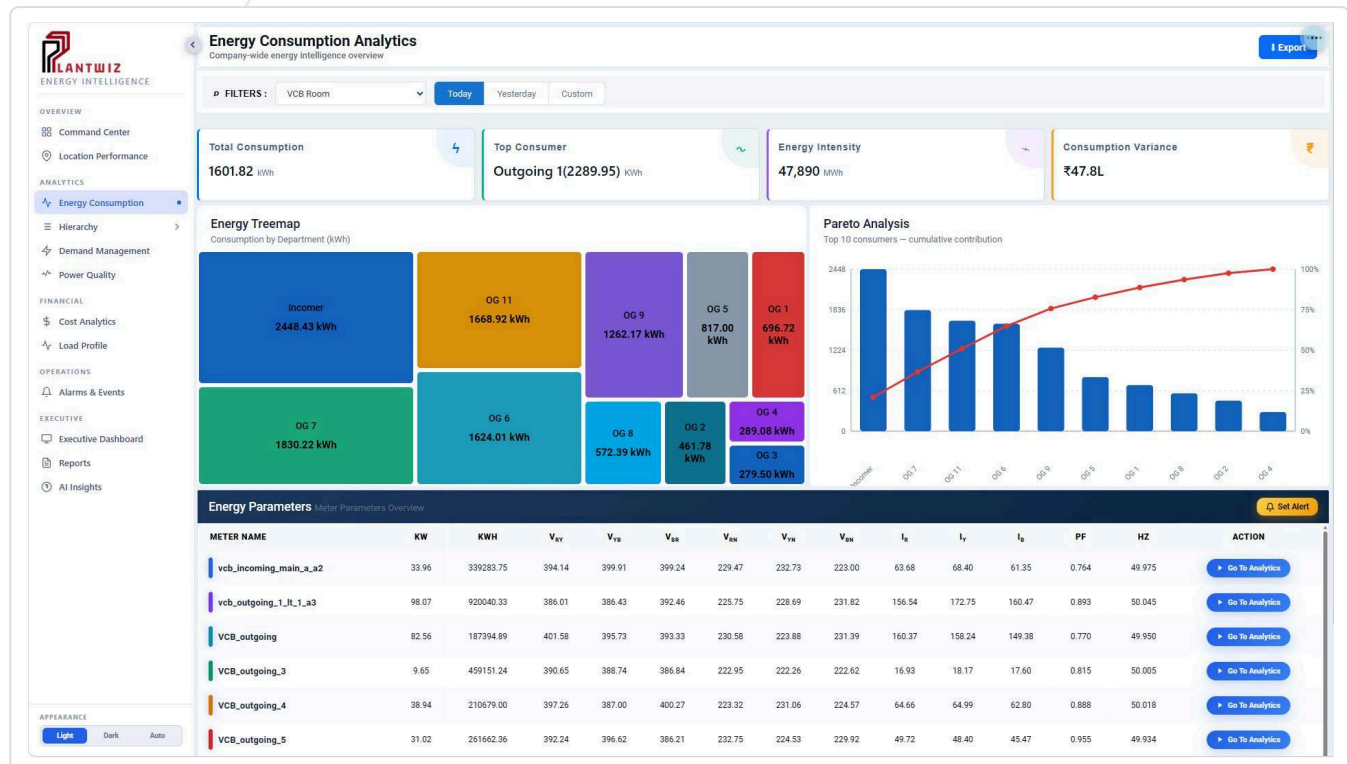
Industrial Gateways with Communication modules

NETWORK

Ethernet/IP backbone, fibre between panel rooms

SERVER

On-premise or cloud — your data, your choice



Live dashboards — per-machine kWh, cost per unit, energy balance. Every 5 seconds.

Connect with our expert

Book a 30-minute walkthrough. See a working module built on a plant like yours. Faster training. Safer operations. Smarter planning.

+91 63598 84032 | marketing@pima.in

www.pima.in | Ahmedabad, India