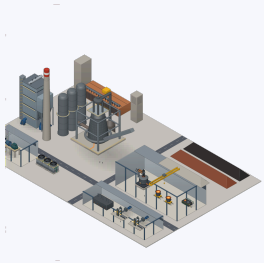
ZEROWATT
Take Charge

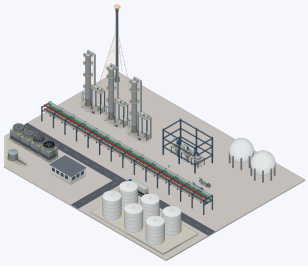
PRODUCT BROCHURE

Zerowatt Vitals

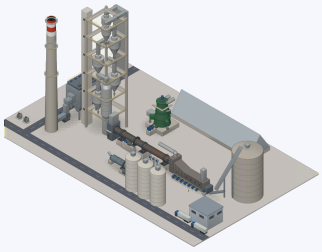
Advanced Industrial Energy and Process Monitoring Platform.



STEEL & METALS



CHEMICALS



CEMENT



POWER

Every machine, meter and sensor in the plant, on **one platform**. Live readings, in rupees, on any screen — and an assistant that answers questions about the data.

100+
large industrial facilities across India

120 MW+
load under continuous monitoring

125 bn+
data points analysed

<48 hrs
from gateway installed to data live

BACKED BY

SUPPORTED BY

MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY

NATIONAL WINNER

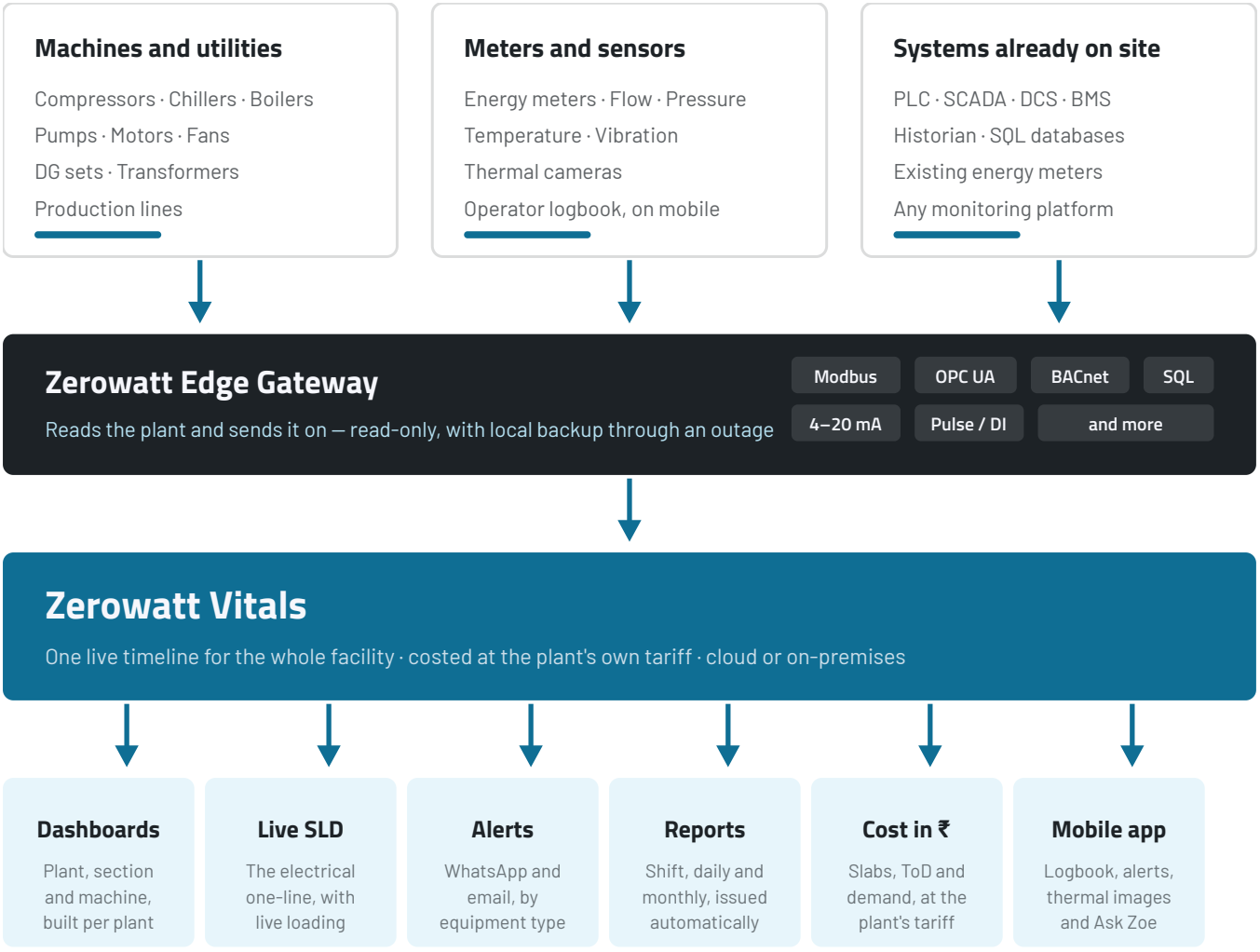
Two national industry AI challenges

ZEROWATT.ENERGY

HOW IT WORKS

One gateway. One platform. Everything on it.

Vitals connects to the machines, meters and sensors in the plant, and to the control systems already running there. It brings every reading onto one screen.



One gateway covers the whole plant. It speaks Modbus, OPC UA, BACnet, SQL, 4–20 mA and the other standard industrial protocols — so the existing equipment is read as it is, with no change to the control system.

ONE SYSTEM COVERS ALL OF IT

Electricity · Water · Compressed air · Steam · Fuel · Chillers & HVAC · Process · Vibration · Temperature & pressure · Thermal imaging · Operator logbook

ALL IN ONE PLATFORM

Fifteen things a plant usually buys separately.

Energy from one vendor, water from another, condition monitoring from a third, and log sheets still on paper. Vitals is all of it — one login, one timeline, one support number.

Energy monitoring

Every incomer, feeder, panel, motor and transformer, down to the last MCC.

Water monitoring

Raw, process, cooling, ETP and STP — flow, consumption and energy per m^3.

Air, steam and fuel

Flow, pressure and specific power across compressors, boilers and headers.

Chiller plant view

kW/TR, approach and both water circuits — per chiller and for the whole plant.

Custom dashboards and views

SCADA-style screens for any machine or process, laid out per plant.

Live single-line diagram

The plant's own electrical one-line, with live loading and power quality on it.

Condition monitoring

Vibration and bearing temperature on motors, fans, pumps and gearboxes.

Thermal imaging

Images taken on rounds, filed against the equipment they show, beside its live data.

Digital logbook

Operator rounds on a phone: readings, run hours, lab results and inspections.

Metrics

Specific energy per line, product and shift — kWh/tonne, kW/TR, kcal/kg.

Custom analytics

Virtual meters and calculated readings, built from any combination of points.

Tariff and cost

Indian tariffs in full — slabs, time-of-day, demand and power factor.

Historian

One-second data with automatic rollups. Retention set by the plant, exportable.

Alerts

Rules set on whole equipment types, not single tags. Sent on WhatsApp and email.

Custom reports

Shift, daily and monthly, issued on their own — MIS in the plant's own format.

> **The plant buys one system, not five. One login, one timeline, one support number — and every module reads from the same data, so a kWh figure in a report is the same kWh figure on the dashboard.**

ASK ZOE

Ask a question. Get the answer.

Zoe is the assistant inside Vitals. Anyone on the plant team can ask about any machine in plain language and get the figure, with the chart behind it.

Ask about any machine

"Compressor consumption for the last two weeks" returns the energy, the cost, the break-up by machine and a report in the inbox.

Answers come with charts

Not a number on its own. The trend it came from is shown alongside, so it can be checked.

Ask about any chart on screen

Select a trend and a date range, and get a reading of that specific chart with the detail behind it.

Describe a dashboard and get it built

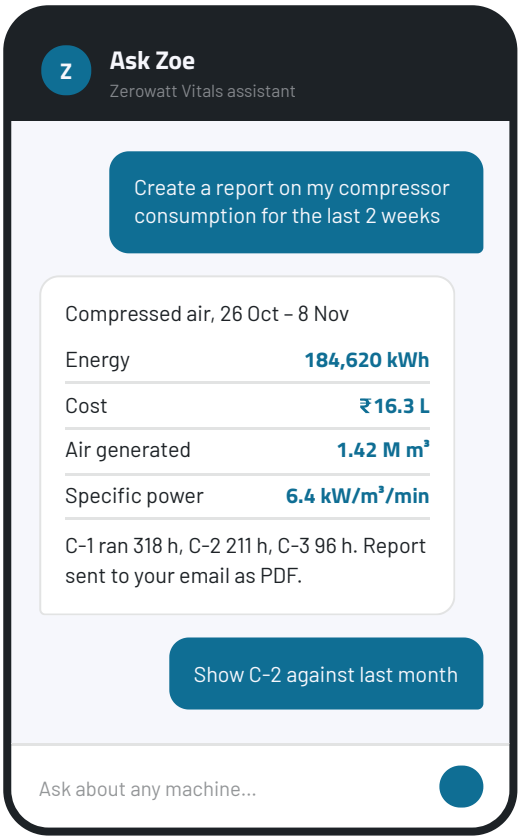
Say what the screen should show and Vitals builds it — no configuration request, no waiting.

Ask how to improve something

Zoe answers from recognised energy-efficiency guidelines and practice, and attaches the reference so the basis can be checked.

On the phone, in the plant

Android and iOS, so the answer arrives in the meeting rather than after it.



Illustrative. Figures shown are examples.

Zoe explains the plant's own data and nothing else. Each plant's data is kept separate, the assistant works on summaries of it, and no customer data is used to train AI models.

ACCESS AND DATA

Web and mobile
Any browser · Android · iOS

Unlimited users
Access set by role and by section

Your data stays yours
Never used to train AI models

PROOF

Running in 100+ large industrial facilities in India.

Including some of India's very largest power plants, cement plants and chemical plants.

100+
large industrial facilities on the platform

120 MW+
of load under continuous monitoring

125 bn+
data points analysed to date

WHAT PLANTS HAVE DONE WITH THE DATA

16.5%
lower energy at an integrated steel plant
MEASURED · IPMVP

30%
lower energy at a food-processing plant
MEASURED · IPMVP

₹127 Cr+
a year of losses found at one power station
IDENTIFIED

BUILT FOR EVERY ENERGY-INTENSIVE INDUSTRY

- Power generation
- Cement
- Steel & metals
- Chemicals & petrochemicals
- Refining & fertilisers
- Pharmaceuticals & API
- Automobile & components
- Food, dairy & beverages
- Foundries
- Textiles
- Glass & ceramics
- Pulp & paper
- District cooling
- Campuses & buildings

BACKED BY

SUPPORTED BY

MINISTRY OF ELECTRONICS AND INFORMATION TECHNOLOGY

NATIONAL WINNER

Two national industry AI challenges

Measured: after implementation, independently verified to IPMVP. Identified: found in the data, before implementation. Clients anonymised. Independent studies suggest 30–40% of industrial energy is wasted.

See it on the plant that has to run it. Book a walkthrough.

A Zerowatt engineer walks the facility, lists what is already measured and what is not, and comes back with a point list and a budgetary estimate. No obligation, and no interruption to production.

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