

**● TECHOVN**

# The measurement layer for electrical infrastructure.

Tech OVN Private Limited builds utility-grade energy meters, the field app that commissions them, and the cloud platforms that turn their data into decisions. Every product in this catalogue shares one data path: measure at the circuit, configure from a phone, decide from the dashboard.

A subsidiary of OVN Engineers, which has powered India's power and water infrastructure since 1947, Tech OVN manufactures in Gurgaon, Haryana. Meters are BIS certified to Indian standards and designed for IEC type-test certification worldwide.

## **Metering hardware**

DIN rail and utility meters from Class 1 to Class 0.5S, plus an OEM EV charge controller

## **EV charging**

3.3 kW and Type 2 smart chargers with metering built in, managed over OCPP

## **Software platforms**

Energy Intelligence for buildings, TitanFlux for charging networks, one app for every meter

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01

# 3-phase DIN rail metering

THE CORE OF THE RANGE



3-PHASE DIN RAIL ENERGY METER

## Titan

Utility-grade 3-phase metering with built-in connectivity and cloud-ready intelligence. Protocol-agnostic: stream to the Energy Intelligence Platform, or to a BMS, SCADA or analytics stack.

Class 0.5S per IEC 62053

100 / 200 / 400 / 800 A

WiFi · Ethernet · RS485

Modbus RTU/TCP · MQTT

Harmonics to 31st

## AUDIT

SPLIT-CORE

RAPID-DEPLOYMENT SPLIT-CORE LOGGER

## Titan Audit

The same metrology with split-core CTs that clamp around live conductors — no shutdown, no rewiring, no electrician. Deploy for a two-week audit or leave it as a permanent monitor.

Split-core CTs, no shutdown

Full metering or current-only mode

Branded PDF report on site

CO<sub>2</sub> from configurable factors

4 modules, DIN rail

BOTH VARIANTS

**Class 0.5S · WiFi, Ethernet, RS485 · Modbus RTU/TCP and MQTT**

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# 02

## Specialised Titan variants

SAME PLATFORM, DIFFERENT JOB

### BTU

KWH + THERMAL

ELECTRICAL + THERMAL DIN RAIL METER

#### Titan Plus BTU

The first DIN rail meter combining utility-grade electrical metering with EN 1434 thermal energy measurement in one device — and calculating efficiency automatically.

kWh and BTU in one unit

Real-time COP

EN 1434 thermal

COP trend curves

### ASSET

PREDICTIVE

CONDITION MONITORING DIN RAIL METER

#### Titan Asset

Energy metering, vibration and temperature sensing in one DIN rail device — know what is consuming energy, and know when it is about to fail.

Three sensors, one device

Inrush capture at motor start

Edge anomaly detection

On-device baseline learning

### COMPLY

REGULATORY

FIRE PUMP COMPLIANCE MONITOR

#### Titan Compliance

Monitors fire pumps and generates regulatory test reports automatically when testing is performed. If a test is missed, a warning is sent.

Automated test logging

Missed-test warnings by email

Leakage detection

Duration, power and parameters

SHARED PLATFORM

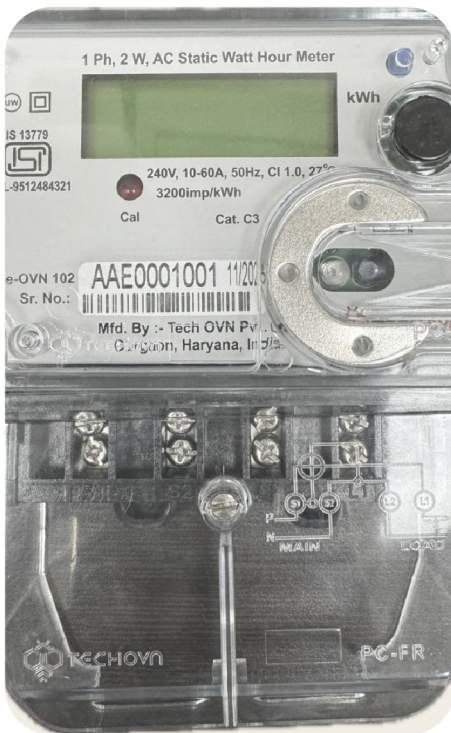
One app · One dashboard · One DIN rail footprint

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# 03 Utility and EV metering

BILLING-GRADE AT BOTH ENDS



SINGLE PHASE STATIC ENERGY METER

## Static and smart energy meters

Direct-connected single phase static watt-hour meters to IS 13779 — BIS certified and manufactured in Gurgaon, with infrared readout and Tech OVN BCS for bulk data transfer.

IS 13779 · BIS certified

Accuracy Class 1

240 V · Ib 10 A, I<sub>max</sub> 60 A

DLMS category C3

IR readout + BCS

3200 imp/kWh

## EV

OEM BOARD

OEM EV CHARGE CONTROLLER BOARD

## Titan EV

A ready-to-integrate charge controller for charger manufacturers and Charge Point Operators, with metering built in for accurate session billing.

IEC 61851-1 compliant

OCPP 2.0.1 with 1.6J compatibility

Built-in metering, no external meter

Single or 3-phase from one board

CERTIFICATION

**IS 13779 · BIS certified · IEC 61851-1 · EU AFIR ready**

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# 04

## EV charging

CHARGERS AND THE NETWORK THAT RUNS THEM



BHARAT AC-001 SMART AC CHARGER

### 3.3 kW charger

Wall-mounted 3.3 kW AC charging with a Class 1 energy meter, electrical protection and app authentication as standard.

3.3 kW, wall mounted

OCPP 1.6J

Class 1 meter built in

IP 55

WiFi, Bluetooth, 4G optional



TYPE 2 SMART AC CHARGER

### Type 2 charger

3.3 to 22 kW single or three phase with a 5 m Type 2 cable, RFID or app authentication and ground fault and surge protection.

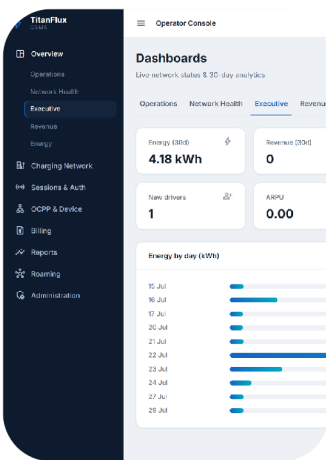
3.3 / 7.4 or 11 / 22 kW

Type 2, 5 m cable

RFID or mobile app

4G, WiFi, Ethernet

IP 55



CHARGING STATION MANAGEMENT SYSTEM

### TitanFlux

Deploy, monitor, manage and monetise a charging network of any brand from one console, with a driver app on Android and iOS.

OCPP 1.6J & 2.0.1

OCPI roaming

Smart charging and tariffs

Multi-tenant, role-based

Signed OTA firmware

OPEN STANDARDS

OCPP 1.6J & 2.0.1 · OCPI · IEC 61851 / IS 17017 aligned

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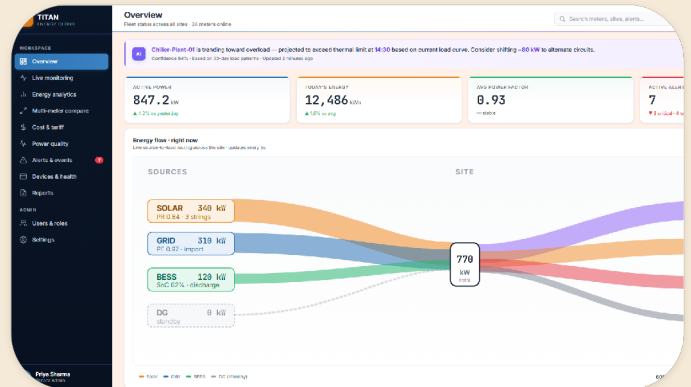
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# 05 Energy Intelligence Platform

WHERE THE DATA BECOMES A DECISION

Every Titan meter streams over WiFi or Ethernet to one dashboard — no gateway hardware, no network engineering. Commissioning takes under five minutes per meter from the Tech OVN App.

Measurement becomes comparison: circuit against circuit, source against source, this month against the baseline. Configurable emission factors make the same data set a Scope 2 record for ESG reporting.



## Real-time monitoring

Live dashboards per circuit and per phase, with configurable thresholds, automated alerts and scheduled reports by email.

## Multi-source comparison

Solar generation against grid import against DG runtime, with cost per source and a blended cost of energy.

## Condition monitoring

Baseline deviation, runtime hours, duty cycles and start/stop logs per circuit, so degradation surfaces before failure.

## BESS sizing and ROI

Battery feasibility from real load and solar data — recommended capacity, payback, scenario and tariff sensitivity.

### Site hierarchy

Organisation, site, building, floor, circuit

### Role-based access

Admin, site manager, view-only

### API and integration

RESTful API for BMS, ERP, analytics

### Data export

CSV, Excel and branded PDF

TALK TO US

**Specify a meter, a charger or a platform**

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