AI for Sustainability

Connected and Intelligent Energy Products

How Jio is leveraging IoT and AI to drive scalable Energy Transformations and Sustainable outcomes with Products

Niladri Chakraborty
Product Manager

Dr. Rishiraj Adhikary
Research Data Scientist

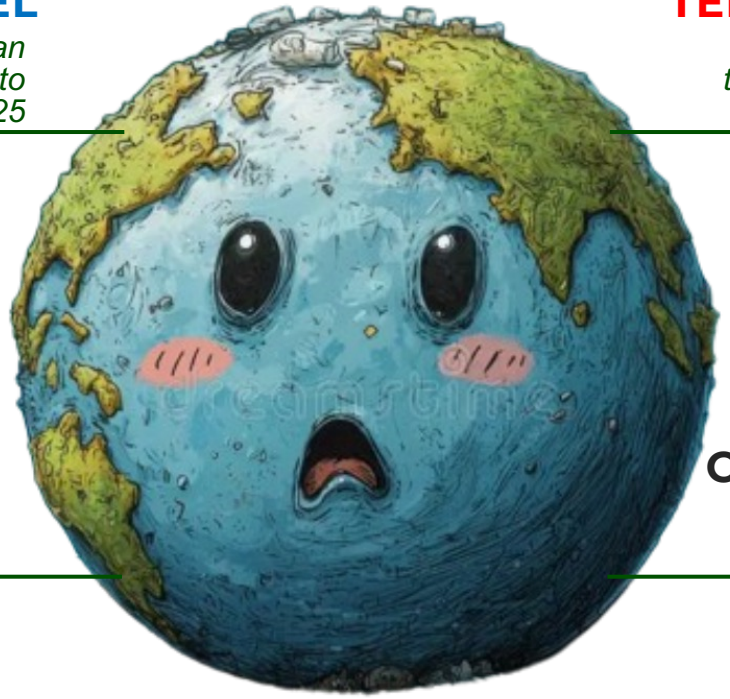
Jio’s Product Vision for a Sustainable Energy Future

Why Sustainability is the Need of the Hour

*As **Climate Change Accelerates**, **Energy** emerges as the most **critical factor** shaping our planet's **Future***

24 cms
SEA LEVEL
Rise in global mean sea level from 1880 to 2025

52.9℃
TEMPERATURE
Highest recorded temperature in 2024



80 Gt
GLACIERS
Glacier mass loss recorded in 2023

37.8 Gt
CO_2 Emission
Recorded in 2024

CLIMATE CHANGE

Why Sustainability Needs Connected Intelligence

*Traditional Energy Systems are reactive, siloed and inefficient. Only **Intelligent IoT** can deliver real-time, predictive and scalable **Sustainability** for Energy Systems*

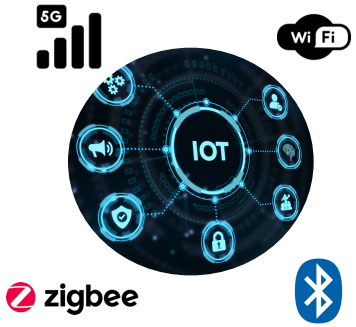
INDIA'S TARGET:
BEING NET ZERO BY 2070

366 GW

India's Peak Power Demand projected for 2030[1]

Reliance Industries Limited

NET ZERO 2035



The Nervous System of Sustainable Enterprises

[1]*Source: https://www.pib.gov.in/PressReleasePage.aspx?PRID=1997517*

JioThings is leading Energy Sustainability

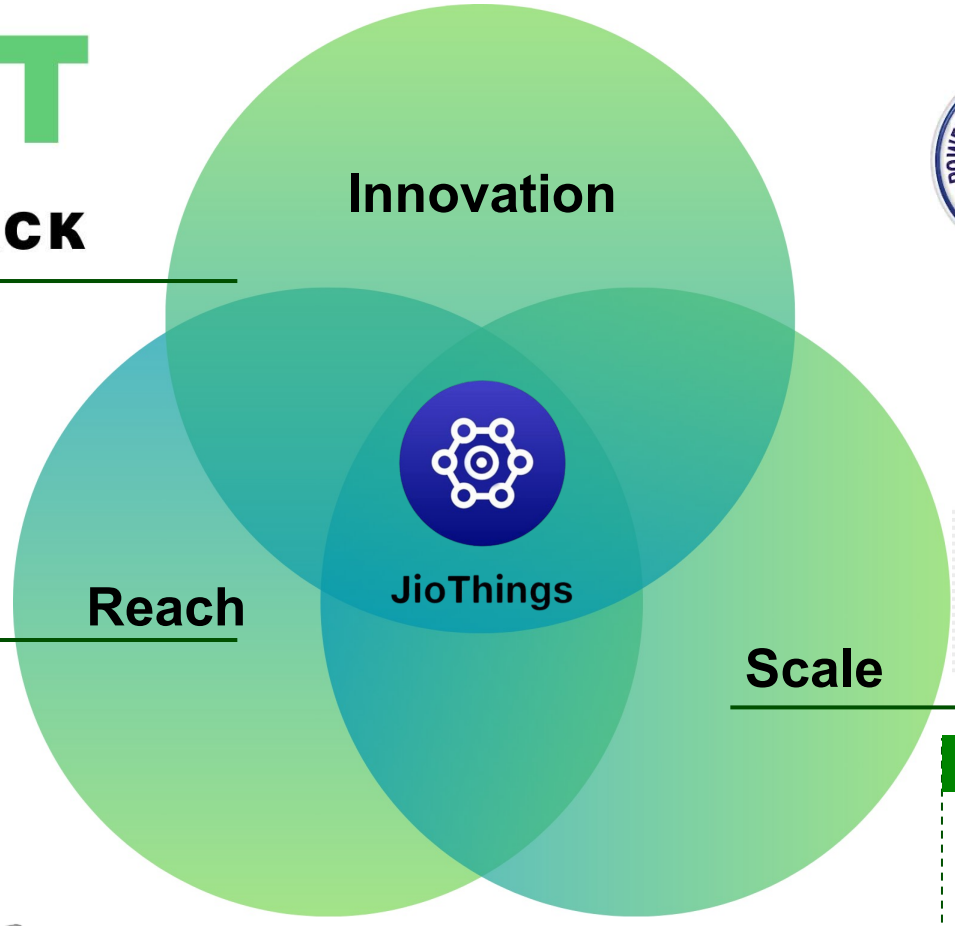
*JioThings acts as a key enabler of the **Sustainable Energy Transition** for everyone*

Jio NEST

NEW ENERGY STACK

500+ Mn

HAPPY CONSUMERS[1]



KEY PARTNERS

Customer Segments

- Residential
- Industrial
- Commercial
- Utility

[1]Source: https://www.ril.com/ar2023-24/digital-services.html and https://www.ril.com/ar2023-24/media-and-entertainment.html

JioThings - New Energy Stack (NEST)

*The four components are the four core Product layers that will help realize the digital platform of Energy Solutions (for R/C/I & Utilities) and EaaS (Energy as a Service). Jio Energy Products blends in as modules with the following Jio **N**ew **E**nergy **St**ack (JioNEST) having 4 key component layers viz. Monitoring (**IoT, Digital Twin and Sensors etc.**), Metering (**kWh & SCM Billing**), Services (**VPP, DERMS, On Demand Energy etc.**), Finance (**P2P Trading, ESG**)*

Finance	Energy Trading & Asset Securitization, ESG Reporting & Initiatives	Entails financial & business aspects. For example: energy trading module is part of this component. Credit Rating is also part of this layer. ESG based Finance for REC etc.	Our blockchain based EnerTrade modules enable trading at enterprise / P2P / CPO level. It'll facilitate financial settlements for energy service providers like aggregators. Besides, Risk/credit score used for asset security along with ESG.
Services	DR, DERMS, VPP, On Demand Energy Energy Disaggregation, Virtual Net Metering	Additional services like DR campaigns, DERMS to optimize RE assets via VPP Cover micro grids for off-grid sites. Enable energy efficiency using AI/ML based method for appliance level usage	Our components enable Energy Orchestration from DERs, Microgrids, Green Energy Open Access (for Solar) related services in C&I Segments. On-Demand Energy Platform also. Addon service for energy disaggregation.
Metering	Utilities Solution SLAs, Billing, Net Billing, Net Metering, Behind The Meter (BTM) Reconciliation	Metering across entire value chain i.e. Generation-Transmission-Distribution (for R, C, I consumer categories) also at various layers of distribution network (Electricity, PNG and Water)	We have done Metering-IoT and related services with our AMISP / DISCOM/ CGD engagements. Besides, Sub-metering related work at Commercial spaces.
Monitoring	IoT and OPC-UA / SCADA based KPIs, Alerts, Analytics, Reports, 3D Digital Twin and RBAC	Entails sensor-based monitoring part of Energy stack and is captured through detailed IoT and SCADA (esp. IT). Visualization of performance & insights.	We have done extensive work with Jio & RNEL Solar Sites, RJIL Towers for monitoring energy assets. This is coupled as Central Monitoring System (CMS) e.g. Bidar, RCP, Dahej, JMD etc.

Scalable IoT: SCADA, PLC, DLMS, Modbus, Zigbee, BLE, MQTT, LTE 4G, NB-IoT, 5G-IoT, Wi-Fi, OCPP, ISO 15118.

IoT Assets

MONITORING – The Foundation to Energy Sustainability

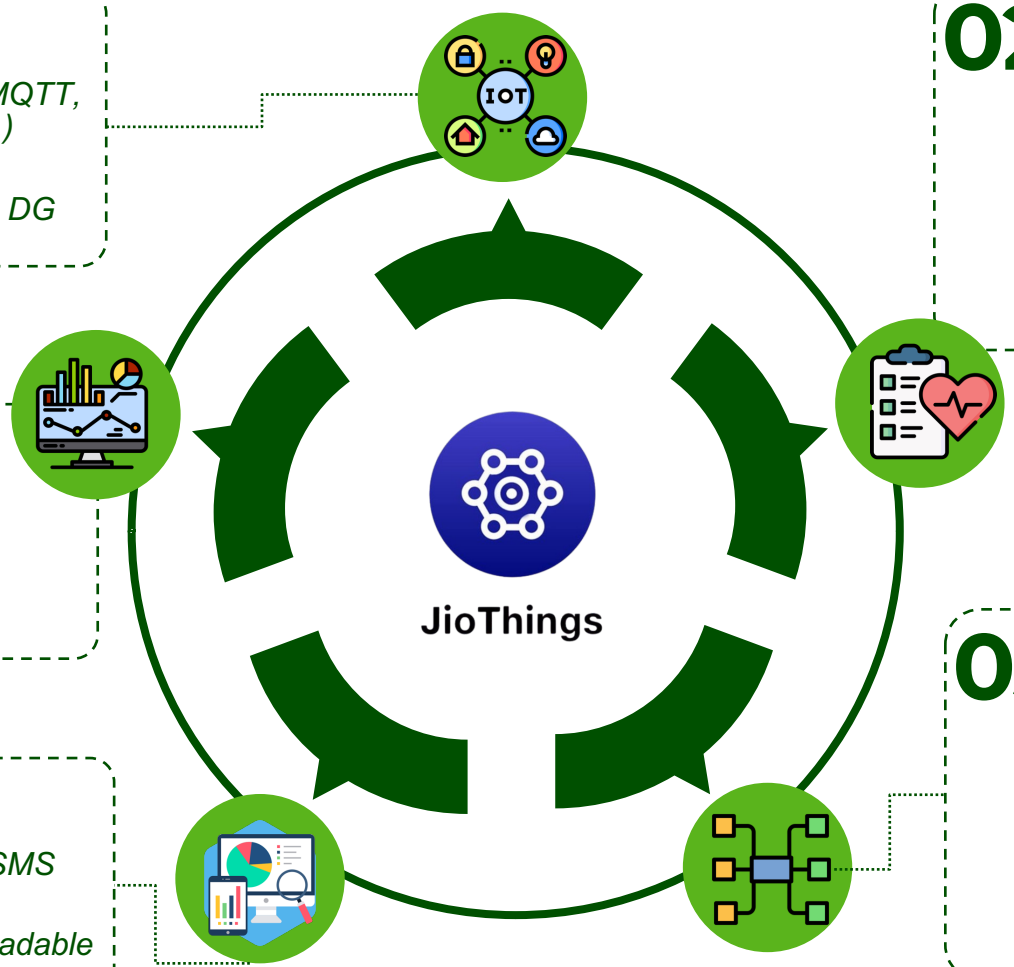
*How Jio integrates the range of **versatile IoT devices** and **edge computing** to build **real-time scalable** monitoring infrastructure that supports the entire **Energy Stack** in our goal towards Sustainability*

01 Unified IoT Integration

- *Supports Multi-protocol Assets (MQTT, DLMS, Modbus, Zigbee, BLE etc.)*
- *Seamlessly connects with Solar Inverters, EVs, Batteries, Meters, DG Set, HVAC, loads etc.*

02 24X7 AI based Health, Anomaly and Energy Monitoring

- *Real-time telemetry from distributed assets*
- *AI/ML based anomaly detection*
- *Custom Health score per asset type*



05 Field Proven Products

- *Jio's Product Suite caters to a plethora of asset monitoring and integration*

03 Asset Mapping & Data Synchronization

- *Hierarchy based asset mapping*
- *Structured meta data for every asset point*
- *Standardized data ingestion from edge to cloud*

04 Smart Alerts & Reports

- *Customizable Alerts on mobile, SMS and web Dashboard*
- *Range of alert types with downloadable reports*

MONITORING – The Foundation to Energy Sustainability

Jio's Product Suite to a Sustainable Energy Monitoring Journey

Energy Intelligence, Energy Efficiency

Powering Efficiency. Driving Insight. Optimizing Energy Use

01 Asset Monitoring

Monitor, Optimize, Solarize

Sustainable living starts with smarter solar insights

02 Solar Monitoring

Store, Secure, Sustain

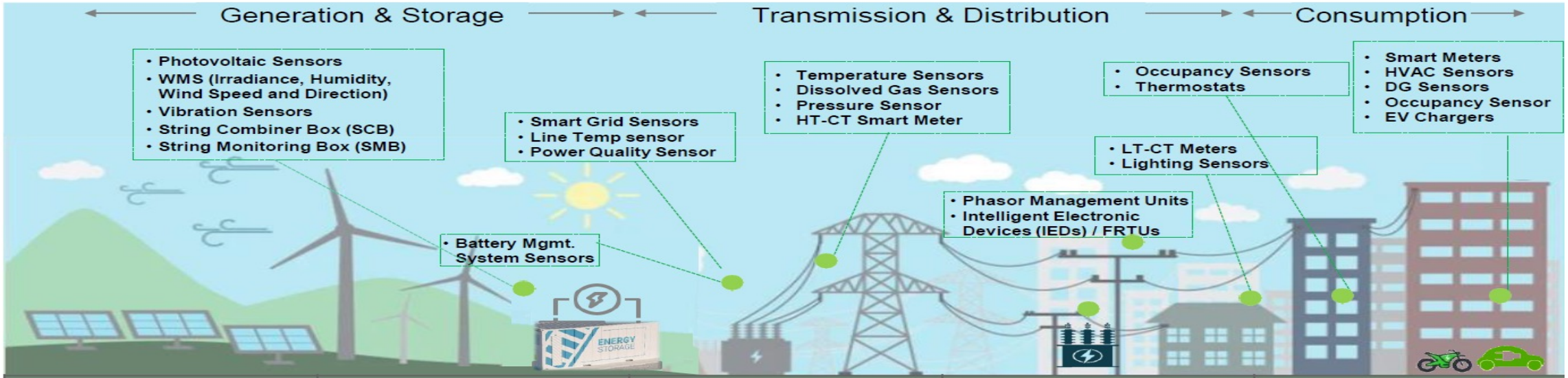
Real-Time Battery Intelligence for Peak Performance

03 Storage Monitoring

Driving EV Success, One Charge at a Time

Streamline, Monitor, Monetize – All at once

04 EV Charging



Generation	Grid Scale Storage	Transmission	Distribution	Consumption
• Solar Generation • Wind Generation • Hydrogen Supply Chain • ABT Metering	• Battery Automation • BESS / Energy Storage	• Substation Automation • Autoreclosures • Switchgears • Green Energy Open Access (GEOA)	• Feeder / Line Sensors • Transformer Monitoring • Feeder Metering • Virtual Power Plant (VPP) • Demand Response (DR) • Microgrids / DERMS	• Res. / Ind. / Com. Users • Net-metering • Energy Management • Peer-to-Peer Trading • G2V and V2G Charging

MONITORING – The Foundation to Energy Sustainability

Our IoT Product listings on E-Commerce Distribution Partners

SMARTMESH 16A Smart Plug Powered by Jio IoT with Energy Monitoring- Suitable for Large Appliances like Refrigerator, Geysers, Microwave Ovens, Air Conditioners (Works with Alexa and Google Assistant)

Visit the SmartMesh Store

2.8 ★★★☆☆ 14 ratings

-77% ₹699

M.R.P.: ~~₹2,990~~

Inclusive of all taxes

Offers

Cashback	Bank Offer	Partner Offers
Upto ₹20.00 cashback as Amazon Pay Balance when…	Upto ₹2,000.00 discount on select Credit Cards, HDFC…	Get GST invoice and save up to 28% on business purchases.
1 offer ›	22 offers ›	1 offer ›

Roll over image to zoom in

JioTag Go Tracker for Android, Millions of Android Phones Worldwide Help Track Your Keys, Wallets, Luggage, Bikes, India's only Google Find My Device Certified Tracker, No SIM Subscription Needed

Brand: JIO

3.6 ★★★½☆ 533 ratings | Search this page

500+ bought in past month

Limited time deal

-50% ₹1,499

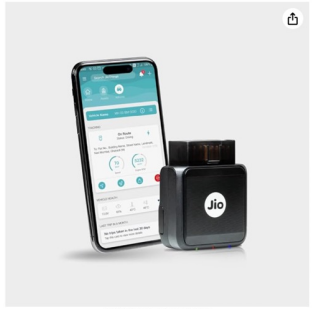
M.R.P.: ~~₹2,999~~

Inclusive of all taxes

EMI starts at ₹136 per month. EMI options

Offers

Cashback	Bank Offer	Partner Offers
Upto ₹44.00 cashback as Amazon Pay Balance when…	Upto ₹2,000.00 discount on select Credit Cards, HDFC…	Get GST invoice and save up to 28% on business purchases.
1 offer ›	22 offers ›	1 offer ›



Roll over image to zoom in

JioMotive OBD GPS Tracker & Wi-fi Router| 4G eSIM Plug n Play| Instant On/Off, Geo Fencing Alerts| 1 Year Free Subscription| Jio Locked

Brand: JIO

3.6 ★★★½☆ 1,127 ratings

#1 Best Seller in GPS Trackers

1K+ bought in past month

Limited time deal

-67% ₹3,999

M.R.P.: ~~₹11,999~~

Inclusive of all taxes

EMI starts at ₹194. No Cost EMI available EMI options

Offers

Cashback	No Cost EMI	Bank Offer	Partner Offers
Upto ₹119.00 cashback as Amazon Pay Balance when…	Upto ₹180.07 EMI interest savings on Amazon Pay ICICI…	Upto ₹2,000.00 discount on select Credit Cards, HDFC…	Get GST invoice a save up to 28% o business purchase
1 offer ›	1 offer ›	22 offers ›	1 offer ›

Jio Humsafar Wired GPS Tracker for Car, Bike, Scooty, Fleets, Truck, Bus,EV | Free Pre-Recharged SIM for 1 Year with Zero Activation Fees | Free JioHumsafar Mobile App (Android & iOS)| Desktop Access

Brand: Jio

3.9 ★★★★☆ 22 ratings

Limited time deal

-42% ₹3,499

M.R.P.: ~~₹5,999~~

Inclusive of all taxes

EMI starts at ₹170. No Cost EMI available EMI options

Offers

Cashback	No Cost EMI	Bank Offer	Partner Offers
Upto ₹104.00 cashback as Amazon Pay Balance when…	Upto ₹157.54 EMI interest savings on Amazon Pay ICICI…	Upto ₹2,000.00 discount on select Credit Cards, HDFC…	Get GST invoice a save up to 28% o business purchase
1 offer ›	1 offer ›	22 offers ›	1 offer ›

JioEV Aries 7.4kW CE & ARAI Certified AC EV Charger| Type2 Plug with 5 m Cable| OCPP Compliant | RFID Inbox | Optional 4G, Wi-Fi & LAN | IP55 & IK10 Resistance | for Home, Workplace & Public Charging

Brand: JIO

3.1 ★★★☆☆ 8 ratings

-23% ₹46,499

M.R.P.: ~~₹59,999~~

Inclusive of all taxes

EMI starts at ₹2,254. No Cost EMI available EMI options

Offers

Cashback	No Cost EMI	Bank Offer	Partner Offers
Upto ₹1,394.00 cashback as Amazon Pay Balance when…	Upto ₹2,093.81 EMI interest savings on Amazon Pay ICICI…	Upto ₹2,000.00 discount on select Credit Cards, HDFC…	Get GST invoice a save up to 28% o business purchase
1 offer ›	1 offer ›	22 offers ›	1 offer ›

METERING – Enabling Transparency in Energy Sustainability

Empowering consumers through transparent energy insights and enabling data-driven Billing for energy consumption

Product Portfolio

- Billing – Prepaid/Postpaid
- Consumption Trends
- Smart Alerts
- Customer Care

01 Consumer App

- Billing System Integration
- Energy Forecast & Procurement
- Geography based Trend Analysis
- Smart Customer Care

02 Utility Portal

Customer Segments

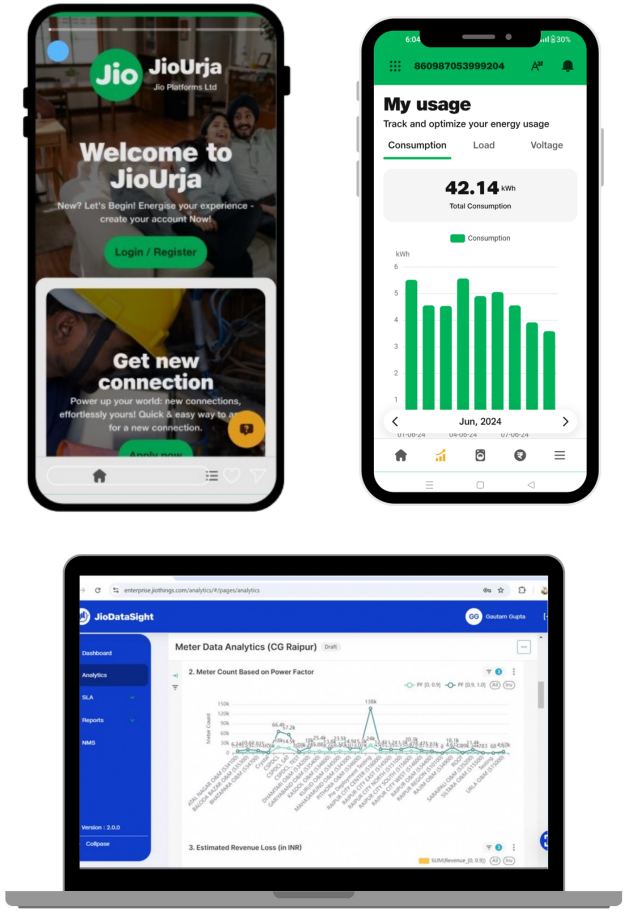
UTILITY

- Residential
- Commercial
- Industrial

UTILITY

- Electricity Metering
- Gas Metering
- Water Metering

Snapshot of Products



METERING – Enabling Transparency in Energy Sustainability

Smart Metering in Action as of June 2025

222.35 Mn

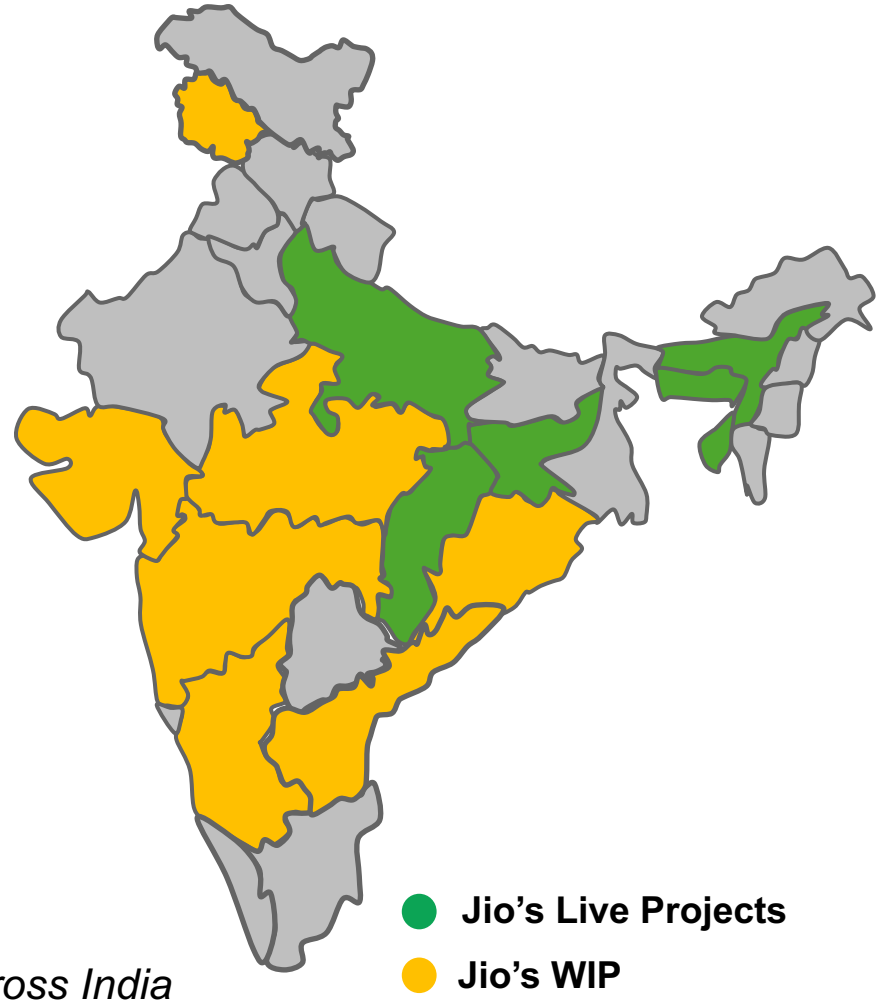
Total Sanctioned[1]

29.02 Mn

Total Installed[1]

12+

DISCOMS (Full-Stack Technology Provider)



Jio functions as a full stack technology provider to over 12+ DISCOMS across India

 [1]*Source: https://www.nsgm.gov.in/en/sm-stats-all*

SERVICES – Driving Energy Sustainability through AI

*How Jio transforms energy into real-time intelligence and actionable decisions through AI driven **Optimization***

01 **Energy Orchestration – DR /DERMS/ VPP/Microgrid**

Energy Disaggregation & Personalized Recommendations 02

03 **Green Energy Open Access (GEOA)**

On Demand Energy – Energy Marketplace 04

Product Portfolio

Orchestrating the Future of Energy

Empowering Communities, Energizing the Future

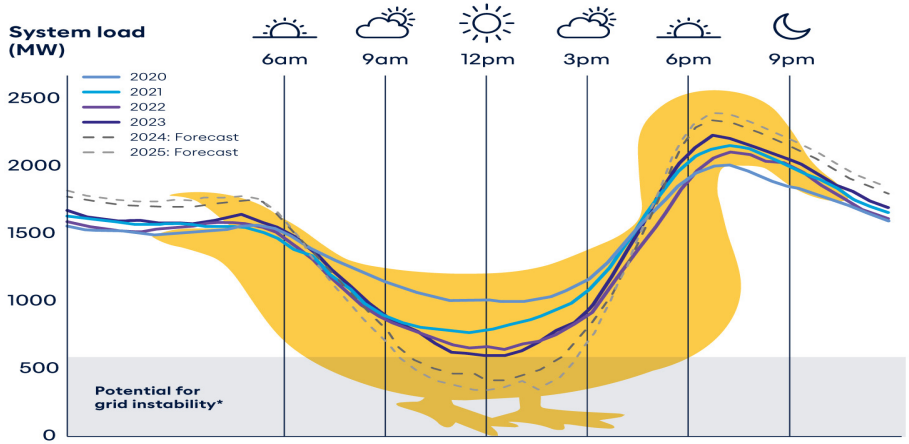
Use Cases

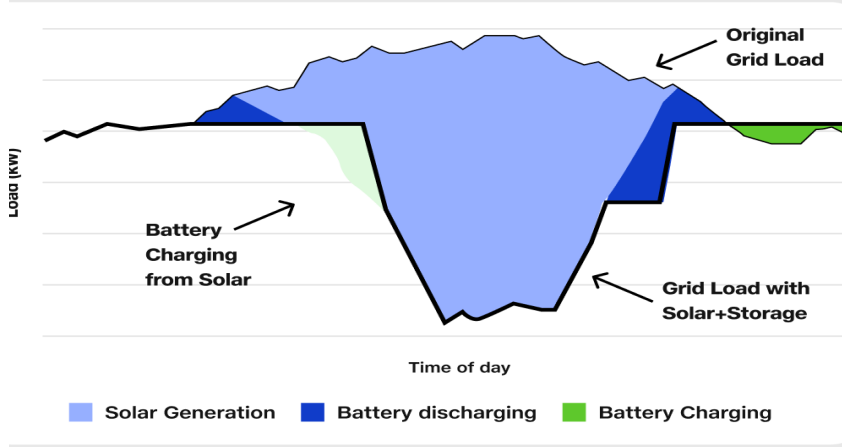
- **Residential**
- **Commercial**
- **Industrial**
- **Utility**

SERVICES – Orchestration and Disaggregation

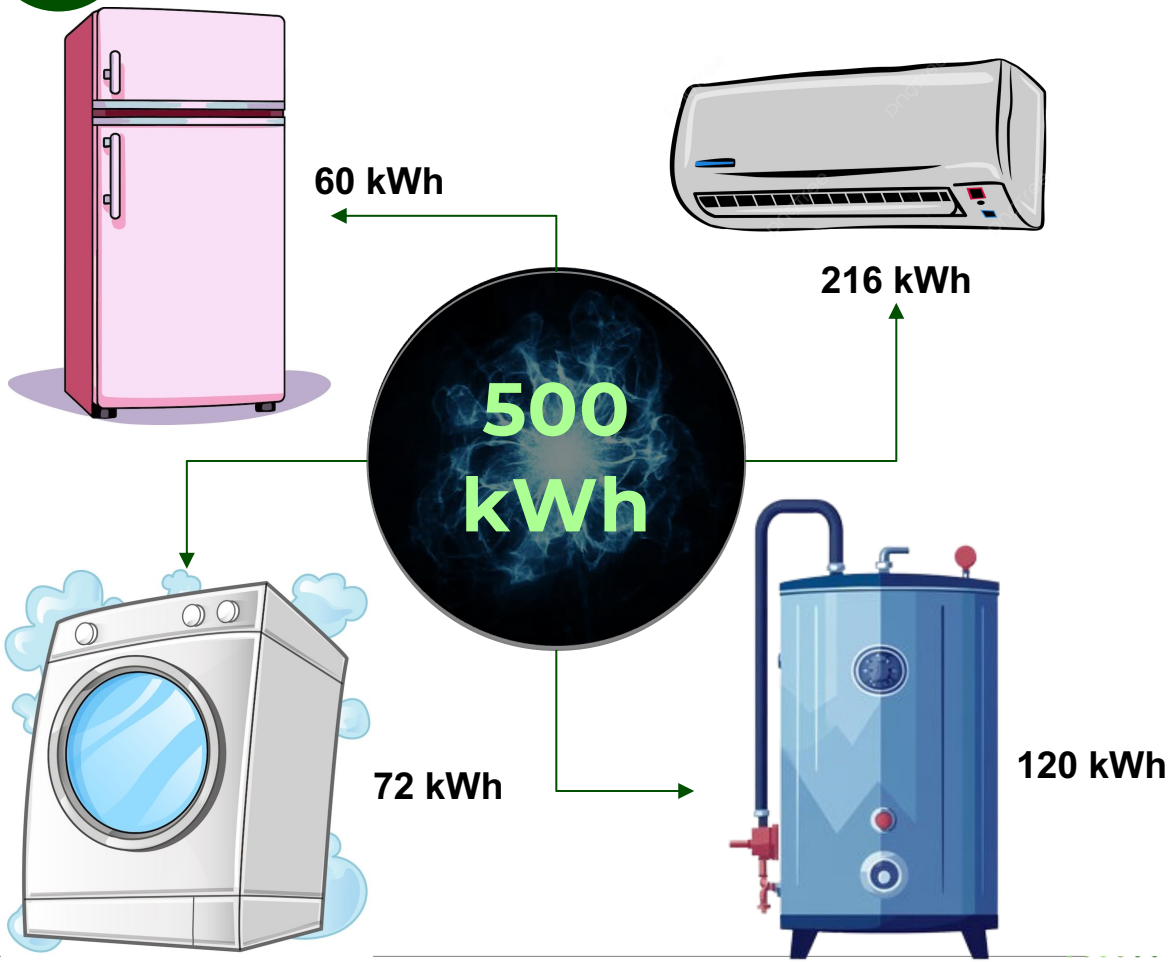
*By **Orchestrating Energy** and **Disaggregating Consumption**, Jio turns complexity into control*

01 Energy Orchestration – DERMS/DR/Microgrid





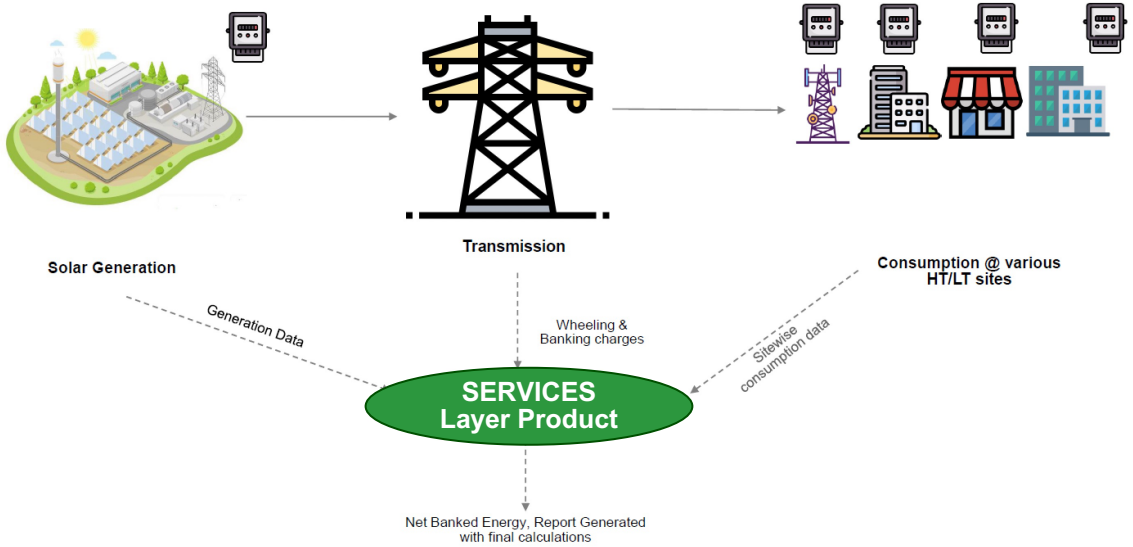
Energy Disaggregation 02



SERVICES – VNM and On Demand Energy

*From shared generation through **VNM** to intelligent energy consumption with **On-Demand Energy**, Jio is reshaping the energy landscape*

03 Green Energy Open Access (GEOA)



On Demand Energy 04

Consumer Requiring On Demand Energy

On Demand Energy Providers

Solar On Demand

DG Set On Demand

Battery On Demand

FINANCE – Making Energy Sustainability Viable & Rewarding

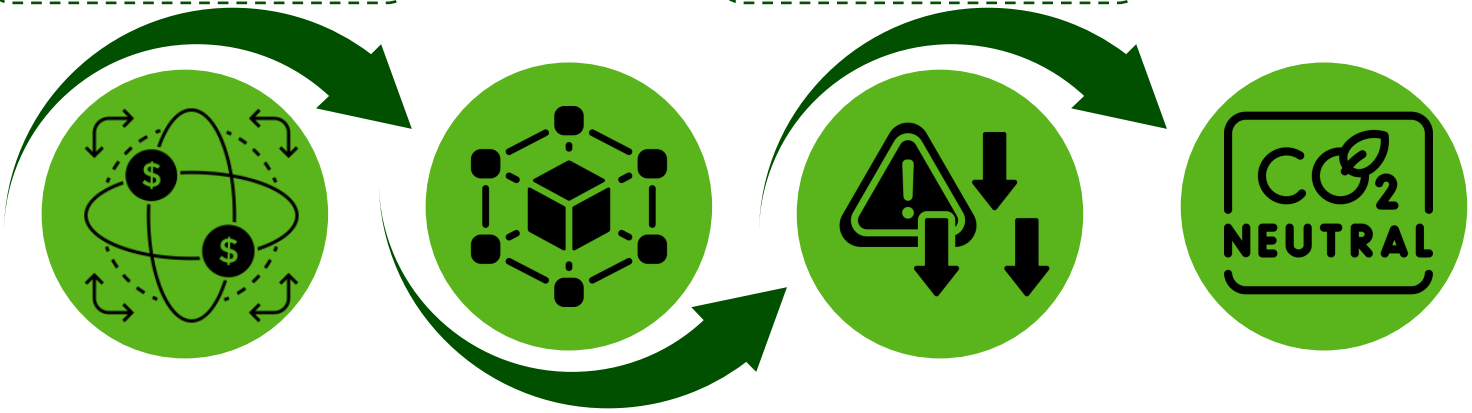
*Energy Intelligence that Pays Off - How Jio is making **Sustainability** financially **Viable** and **Rewarding***

Scalable Financial Model

Quantifying value of energy intelligence through cost saving optimized investments and sustainability linked returns

Reduced Risk & Improved ROI

Risk reduction through AI based forecasting and predictive analytics driving improved ROI



Green Financing

Jio supports innovative business models like PPA Settlements, Blockchain based P2P energy trading etc.

Enabling Net Zero

Jio supports companies by guiding them on their net zero and ESG reporting journey

What We Offer !

BRSR Compliance — *SEBI, Monthly reporting for FY, Multi-geography based facilities energy data*

Enables both large residential & enterprise prosumers as well as enterprise users i.e. (EVSE CPOs, Swapping Providers). — **P2P Trading**

Forecasting Model — *Forecasting model to better understand the demand and future potential Bid forecast. Model helps in enabling better auto-bidding & dynamic pricing*

CIBIL Rating equivalence for Energy Assets, Rating Models etc. ecosystem — **Asset Securitization**

JioEnerTrade empowers Blockchain based energy trading between the consumers and prosumers for both residential and enterprise users

Driving Energy Sustainability through ESG Product

*From Infrastructure to Insight - Jio is enabling **Enterprise Decarbonization** with intelligence and impact through audit ready **Environmental Social and Governance (ESG)** Reporting*

01 ESG Actionability

Real-time visibility into energy, emissions and asset health creating the foundation for ESG action

02 Supply Chain Sustainability

Metering across distributed infrastructure enables granular tracking of across value chain

03 ESG Reporting

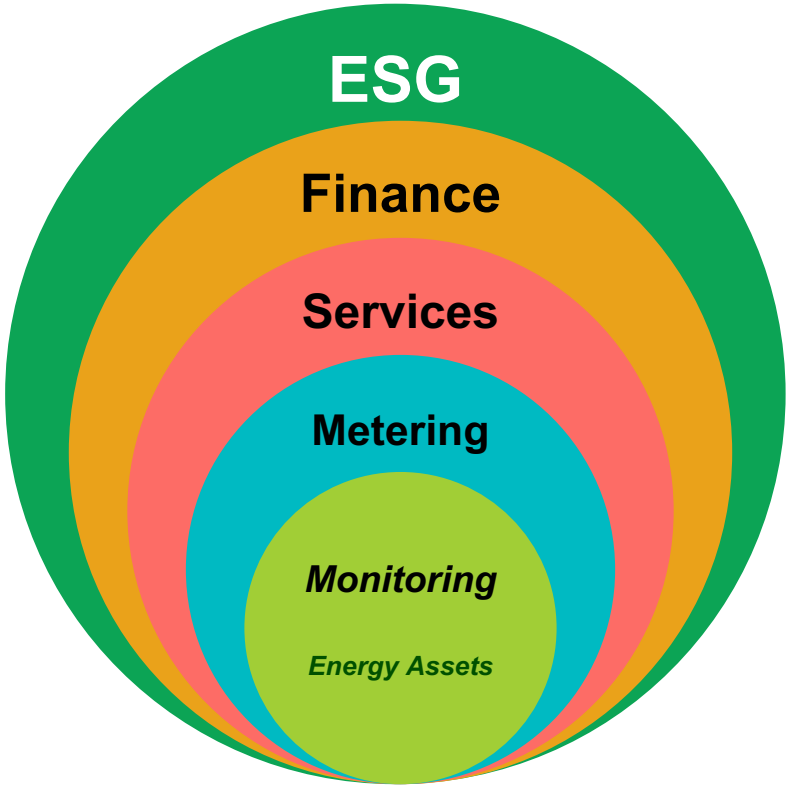
AI driven scorecards and automated ESG metrics aligned with global standards

04 Green Finance & Carbon Trading

Financial intelligence from energy enables green loans, carbon offsetting and credit market participation

05 Unified ESG Dashboard

Unified control to enterprise ESG stakeholders and CXOs to monitor sustainability KPIs



Case Studies – AI/ML Models at Work

Overview of our AI/ML Models that drive Connected Intelligence Products

Load Disaggregation: Transforming Energy Bills into Actionable Insights

Consumer Clustering Based on Energy Usage – ToU Planning

Gaming the Grid: Using Domestic Tariffs for Commercial Gains

(Potential) Theft Detection: GMM Based Identification of Meter Tempering

Forecasting: Enabling Grid Stability and Economic Efficiency in Renewable Integration

Cleaning Smarter: Data-Driven Maintenance for Solar Efficiency

Asset eKundli: A DLT Powered Asset Health Scoring System.

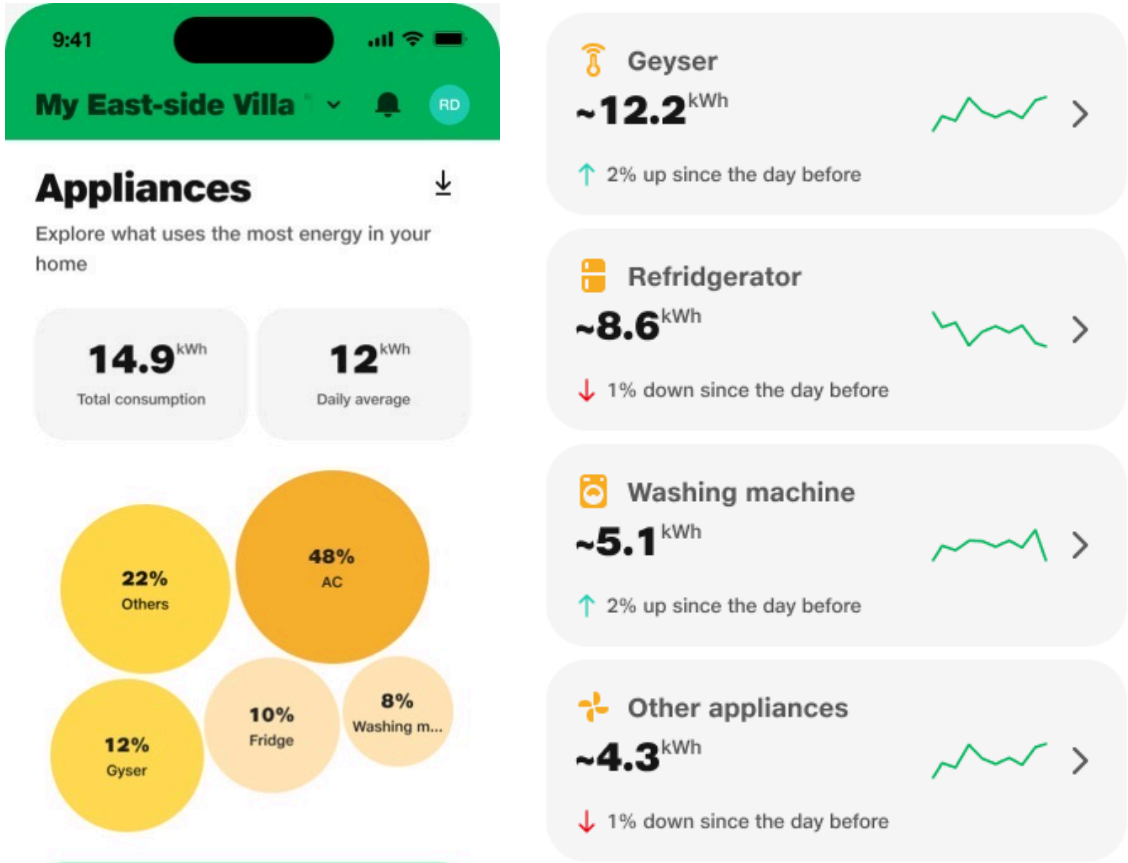
LLM Based System for CXO / O&M / Customer Care

Battery backup time estimation at Jio Tower Sites

DG Set (Potential) Theft Detection at Jio Tower Sites

Load Disaggregation: Transforming Energy Bills into Actionable Insights

Non Intrusive Load Monitoring (NILM) infers appliance-level energy consumption from aggregate smart meter data using machine learning and signal processing.



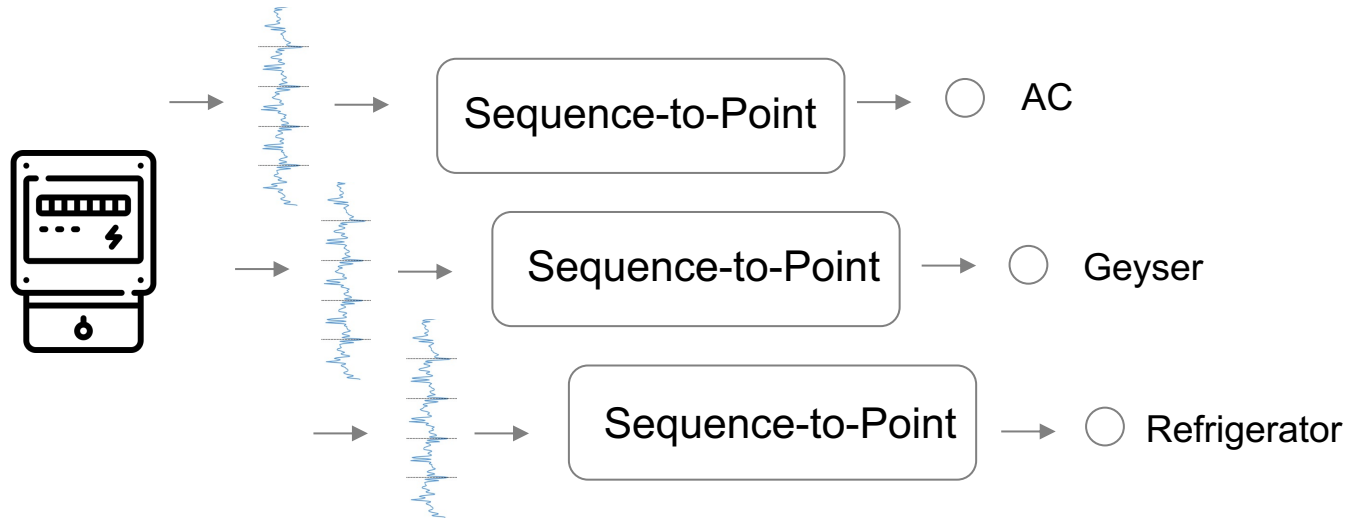
Impact

- **Behavioural Economics**
  - 15-23% energy savings observed in pilot households via real-time alerts.
- **Grid Benefits**
  - 12-18% reduction in peak demand.
- **Sustainability**
  - 4.2M tons CO_2 per year saved

Load Disaggregation: Transforming Energy Bills into Actionable Insights

Non Intrusive Load Monitoring (NILM) infers appliance-level energy consumption from aggregate smart meter data using machine learning and signal processing.

Technical Framework



Geyser

Model	Input	Output	Input Sequence Length	Result (MAE)
Sequence-To-Point With Differential Input	Power reading (Mains)	Power reading (Appliance)	7	80.65
Sequence-To-Point With Attention	Power reading (Mains)	Power reading (Appliance)	7	97.16

Consumer Clustering Based On Energy Usage

KMeans Clustering & Silhouette Analysis for Targeted Demand-Side Management

Why clustering is essential ?

- **Grid Infrastructure Planning:**
  - **Capacity allocation**: Heavy users require dedicated transformer upgrades.
  - **Peak demand forecasting**: Moderate users drive evening peaks – enables targeted load shifting
- **Demand Response Programs:**
  - Targeted Incentives: Heavy users receive AC cycling rewards, normal users get rebates.
- **For DISCOMs:** 18% reduction in peak demand through cluster specific demand response.

Consumer Clustering Based On Energy Usage

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Technical Framework

- **Input:**
  - Weekly energy consumption of consumer
- **Input Dimension**:
  - Features created from 1D signal.
- **Output:**
  - Cluster (Normal, Moderate or Heavy User)
- **Algorithm:**
  - K-Means
- **Performance:**
  - Measured on basis of Silhouette Score (1 is best, -1 is worst)

Gaming the Grid: Using Domestic Tariffs for Commercial Gains

Core Issue: *Domestic tariff abuse through commercial usage disguised as residential consumption*

Load Pattern Signatures

- **Residential Profile:** Bi-modal distribution with morning peak (7-9 AM, ~350W) and evening peak (7-9 PM, ~250W).
- **Commercial Profile:** Sustained daytime load (9 AM-6 PM) with minimal night-time consumption.
- **Key Discriminator:** Night-to-day load ratio and temporal consumption variance.

Proposed Impact: Reduce technical/commercial losses from current 34% to target 12-15%

(Potential) Theft Detection: GMM-Based Identification of Meter Tampering

From Cluster Analysis to Tamper Signatures: Detecting Bypass, Magnetic Interference & Cover Tamper Events

Anomaly Spectrum

- **Meter Bypass:** Unauthorized wiring changes causing load-current mismatch
- **Magnetic Tampering:** External magnets distorting current sensors, inducing voltage drops.
- **Cover Tamper:** Night-to-day load ratio and temporal consumption variance.

Technical Framework

- Clusters are not equally sized, so we use **Gaussian Mixture Model (GMM)**.
- **Input**:
  - Weekly energy consumption of consumer
- **Input Dimension**:
  - Features created from 1D signal.
- **Output**:
  - Binary classification

Impact: Drives close collaboration with DISCOMs to identify new and emerging anomalies. .

Solar Forecasting: Enabling Grid Stability & Economic Efficiency in Renewable Integration

Solar forecasting addresses the fundamental challenge of temporal mismatch between variable PV generation and load demand.

Economic Optimization Driver

- Sites: **Bidar (Karnataka)** and **RCP, Ghansoli**
- Accurate forecasts reduce Levelized Cost of Energy (LCOE)

Forecast Solar Yield

Forecast Demand Response

- Enabling **ToU arbitrage** with battery storage (12-18% ROI improvement).
- Cutting **balancing costs** by 23% through reduced forecast errors.
- Avoiding **curtailment penalties**.

Cleaning Smarter: Data-Driven Maintenance for Solar Efficiency

Solar forecasting addresses the fundamental challenge of temporal mismatch between variable PV generation and load demand

Degradation Factors

- Solar panel degradation is driven by **soiling (dust)**, cell microcracks, and inverter faults, which collectively cause up to 30% energy loss.
- IoT-enabled edge devices module temperature, current/voltage variance, proxy for soiling

Analytics Engine

- **Input:**
  - AC Power, Irradiance, Panel Temperature.
- **Output:**
  - Unutilised Area

$$\text{Unutilized Area} = \frac{\text{Expected Power (in W)} - \text{Actual Power(in W)}}{\text{Irradiance}\left(\frac{\text{W}}{\text{sqm}}\right) * \text{Panel Efficiency}}$$

$$Unutilized\ Area\ \% = 100 * \frac{Unutilized\ Area\ (in\ Sqm)}{Total\ Area\ of\ Panels\ (in\ sqm)}$$

Proposed Impact: 23% lower O&M cost. Targeting 0.5% annual degradation rate (vs. industry standard 0.8%)

Asset eKundli: A DLT-Powered Asset Health Scoring System

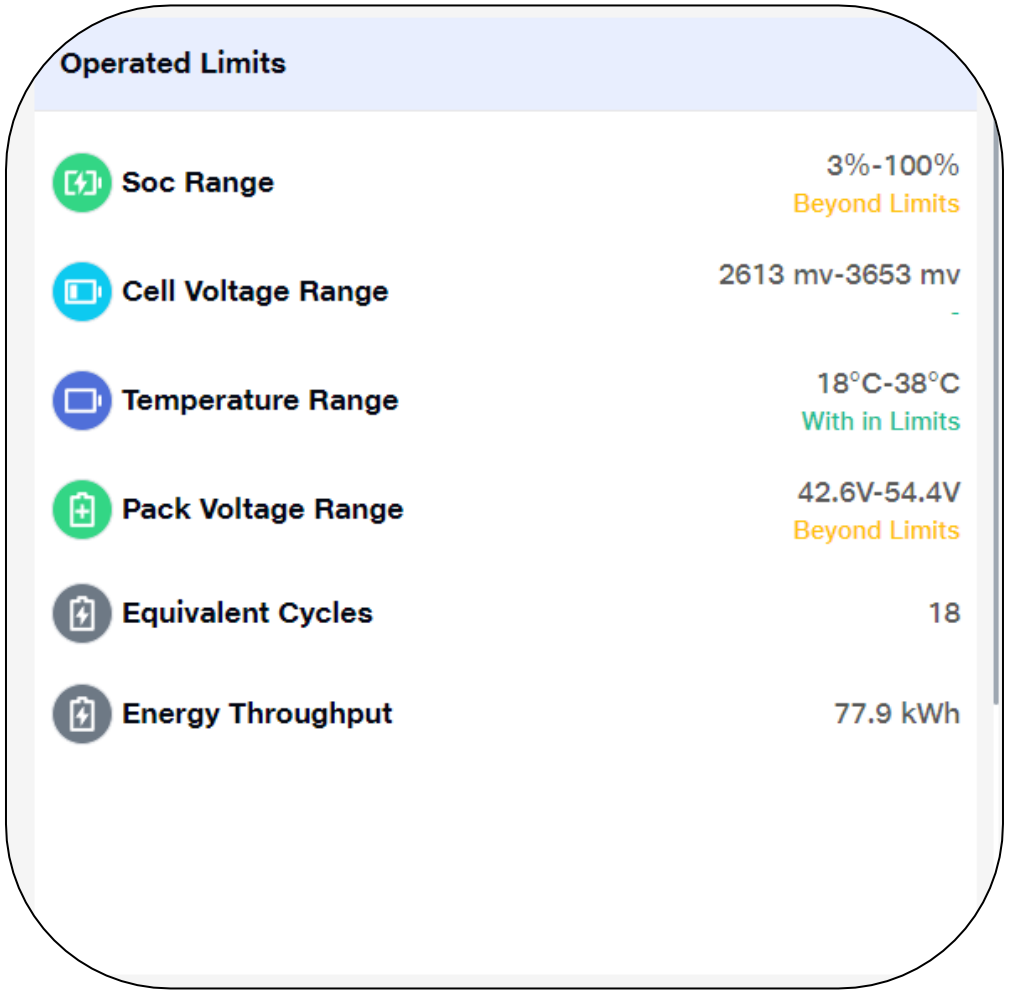
Real-Time Operational Parameter Aggregation & Immutable Health Scoring via Hyperledger Fabric

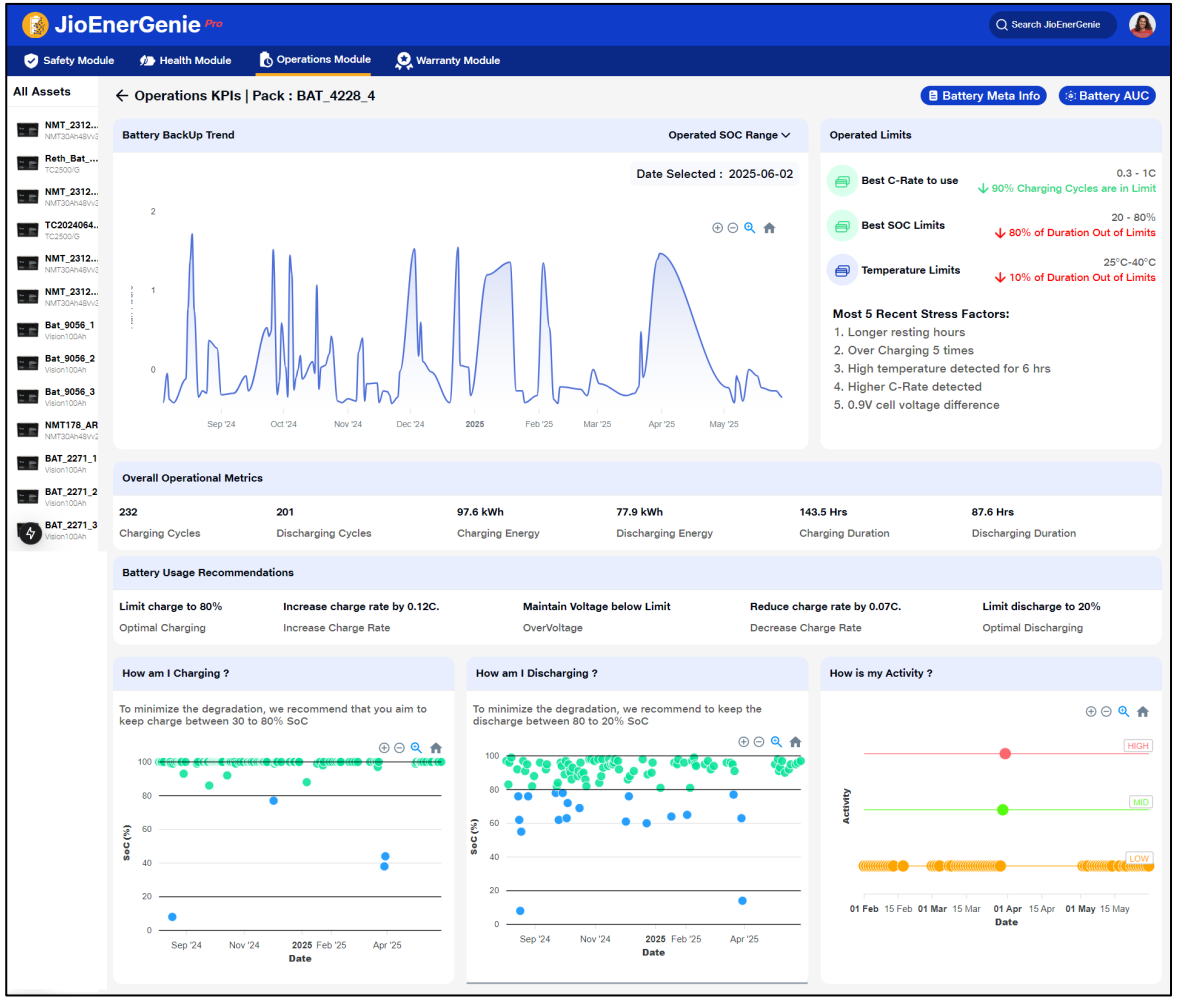
Core Components

- **Data Collection Layer:** IoT sensors (voltage, temperature, charge cycles) stream operational parameters to edge gateways.
- **DLT Layer:** Hyperledger Fabric-based private blockchain records hashed sensor data and metadata (manufacturing date, maintenance history) in immutable ledgers.
- **Analytics Engine:** Federated learning models process on-chain data to compute degradation trends, using battery state-of-health (SOH) algorithms.
- **Health Score Generation:** Outputs a CIBIL-like score (0–1000) combining real-time analytics (70% weight) and historical meta-data (30% weight).
- **Insurance and Smart AMC**

Asset eKundli: A DLT-Powered Asset Health Scoring System

Real-Time Operational Parameter Aggregation & Immutable Health Scoring via Hyperledger Fabric





Asset eKundli: A DLT-Powered Asset Health Scoring System

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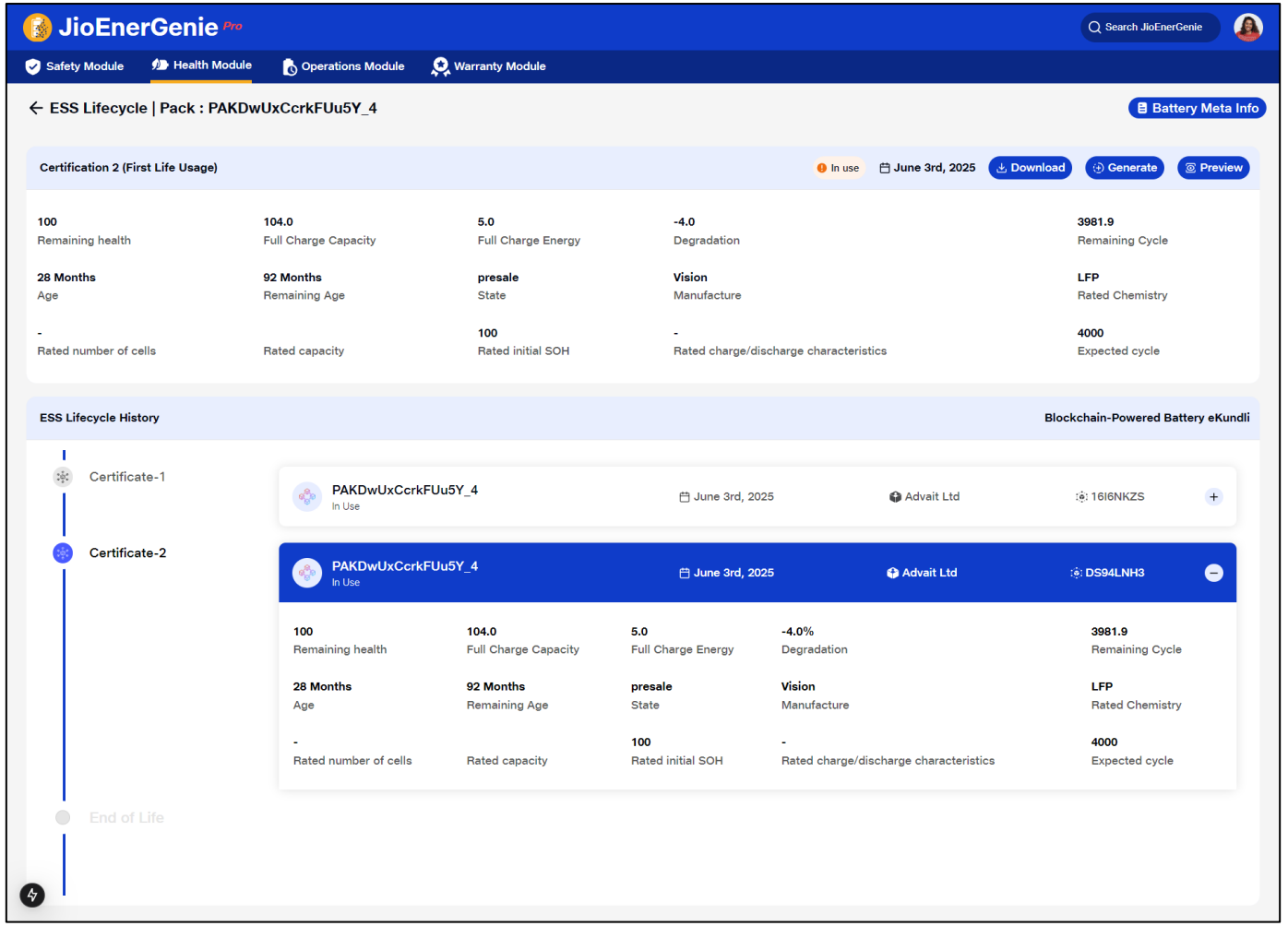

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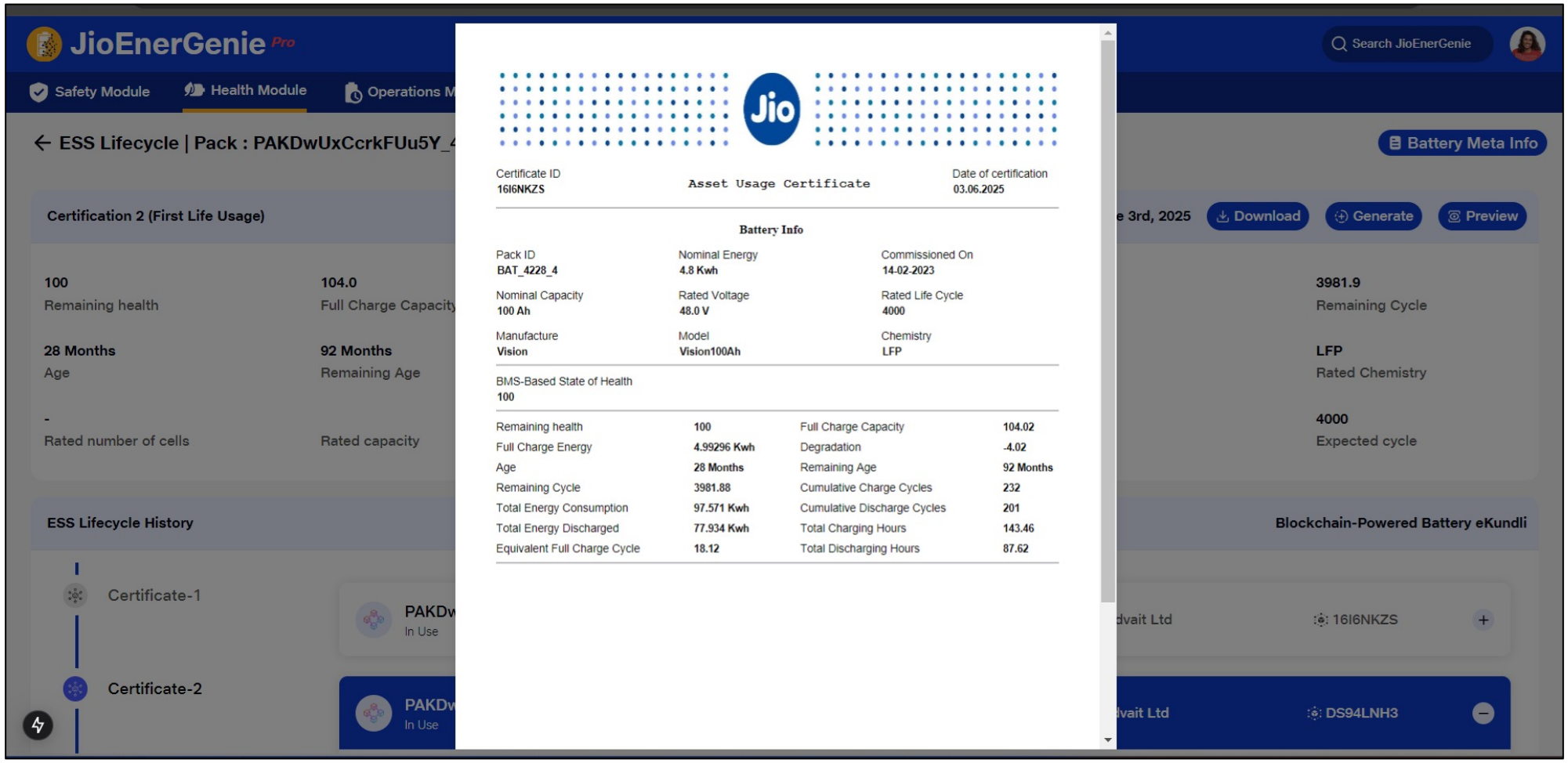
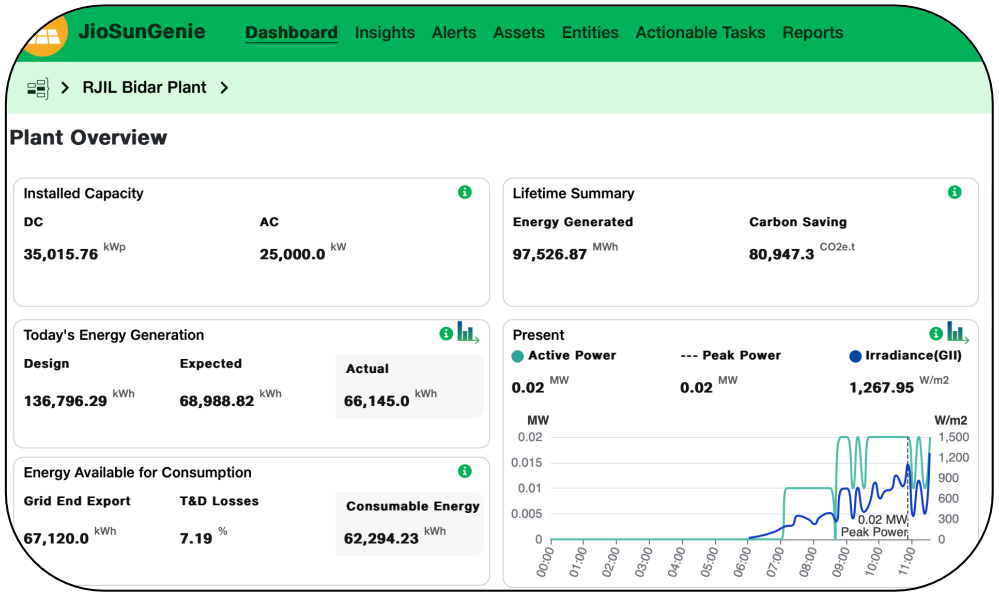


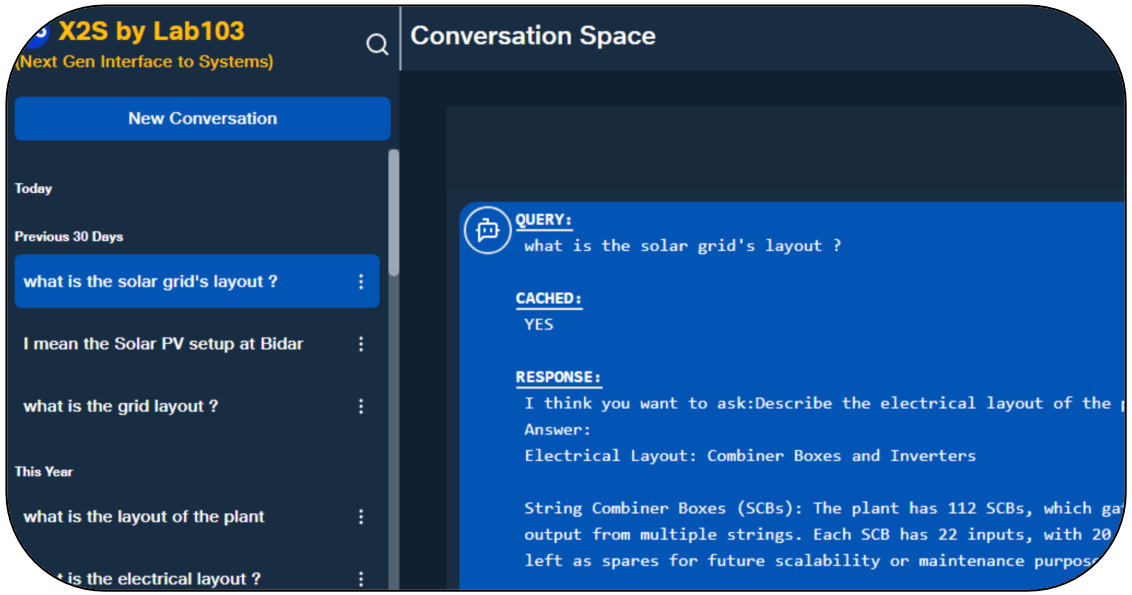
LLM Based System For CXO/ O&M / Customer Care

Powering existing dashboards using LLM

Solar Dashboard



LLM Powered Dashboard



LLM Based System For CXO/ O&M / Customer Care

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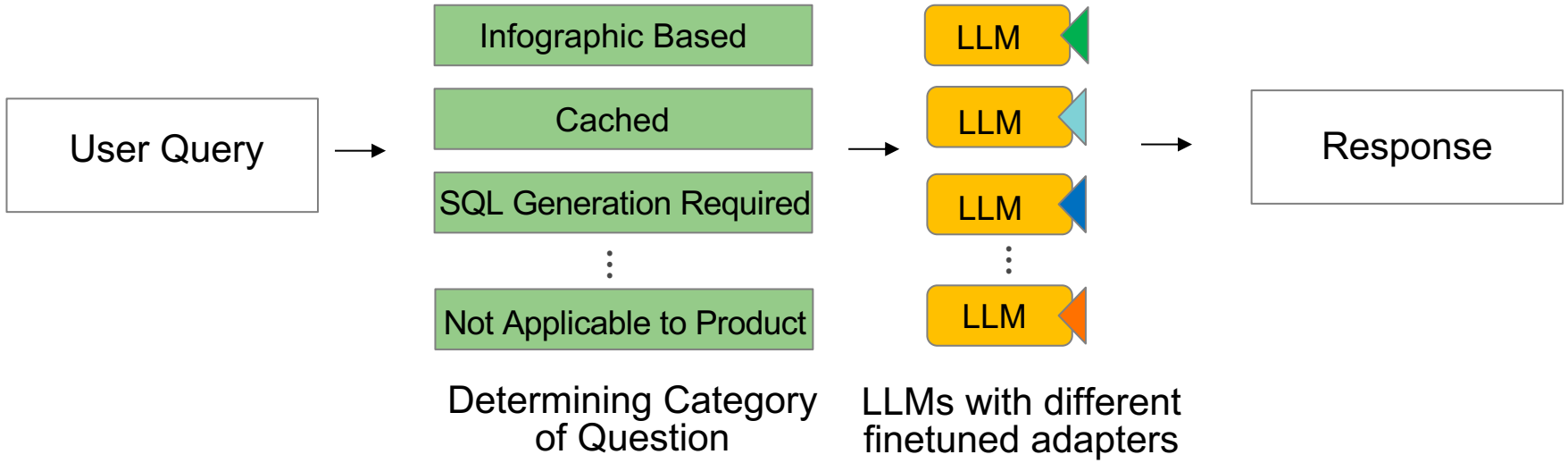
Technical Framework



Battery backup time estimation at Jio Tower Sites

Leveraging Data-Driven SOH Estimation for Critical Infrastructure

The Challenge

- **400,000 tower** sites requiring 99%+ uptime
- **Battery** = first line of defense (instant power vs. DG/Solar delays)
- Manual monitoring impossible at this scale

Solution

- **Real-Time** monitoring of assets
- Algorithms like Particle Swarm Optimization with Support Vector Machines **(PSO-SVM)** to achieve State of Health (**SOH)** estimation accuracy.
- **State of Health (SOH)** represents the battery's current capacity relative to its original capacity and directly determines actual backup runtime

Impact: From reactive firefighting → Predictive intelligence for critical telecom infrastructure

DG Set (Potential) Theft Detection at Jio Tower Sites

From reactive auditing to predictive theft prevention through intelligent monitoring

The Problem: Diesel Theft at Scale

- Fuel theft impacts operational costs across **400K tower** sites
- Site managers sometimes misuse DG allocation quotas
- Unnecessary DG operation instead of battery backup to consume allocated diesel
- Traditional monitoring relies on manual audits and periodic inspections

Technical Indicators

- Sudden **slope changes** in diesel consumption patterns.
- Fuel efficiency deviations from standard 40 INR/kWh benchmark.
- Energy generation anomalies vs. expected 1000 kWh average consumption.
- Runtime patterns inconsistent with actual power outage logs.
- **Correlation analysis** between power outages and DG runtime

Jio is committed to a Sustainable Tomorrow !

Jio is committed to revolutionize the energy landscape and drive sustainability through its connected and Intelligent Energy Products

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MEET THE TEAM

Niladri Chakraborty

Product Manager

+91-8591107512

niladri3.c@ril.com

Reliance Jio, Bangalore

https://www.linkedin.com/in/niladrichakraborty

Dr. Rishiraj Adhikary

Research Data Scientist

+91-8787360173

rishiraj.adhikary@ril.com

Reliance Jio, Bangalore

https://www.linkedin.com/in/rishiraj-in/


Thank You
Jio