DataGlen Technologies

Your software partner for distributed solar systems

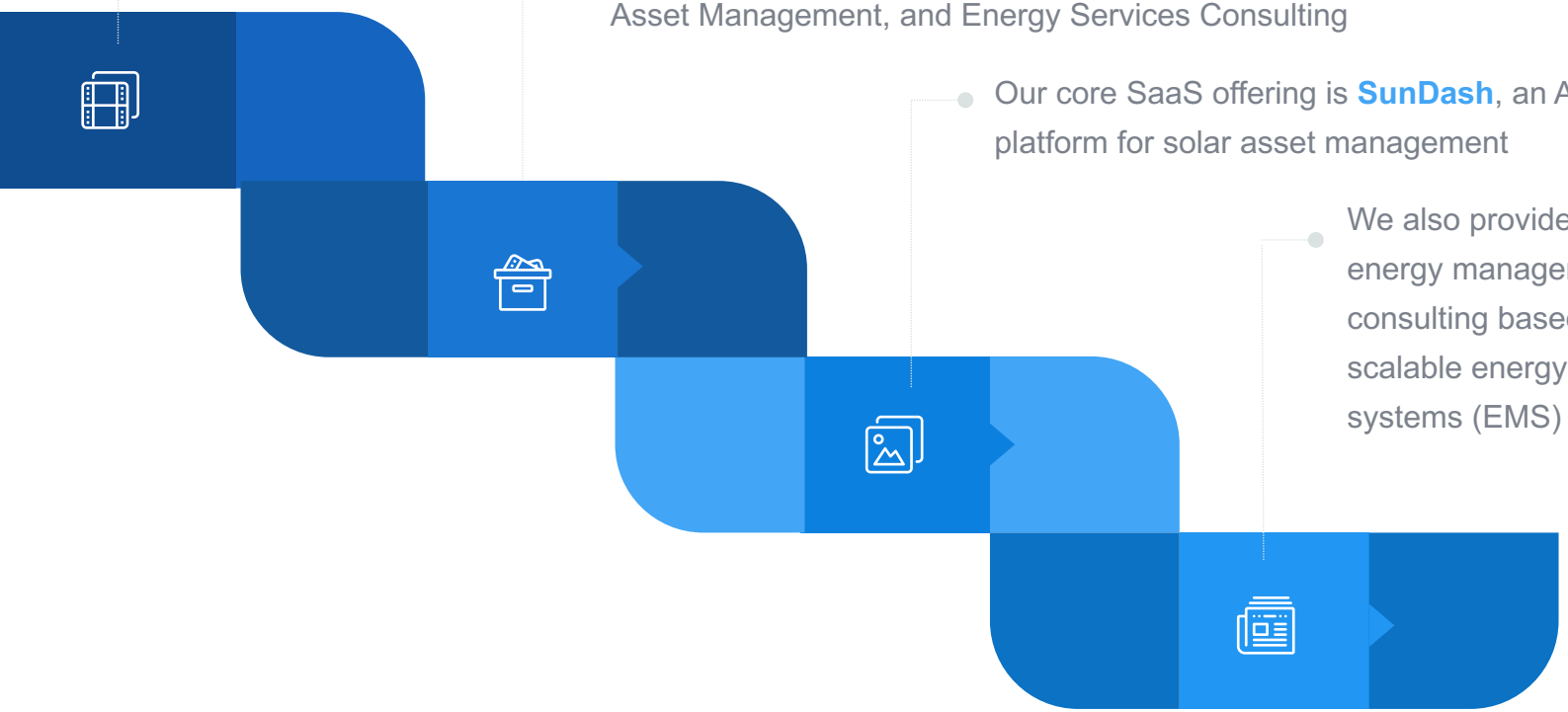
Our Products and Services

DataGlen focuses on enabling clean energy systems through Industrial Internet of Things, Artificial Intelligence and Machine Learning technologies

We provide solutions under two broad categories – Solar Asset Management, and Energy Services Consulting

Our core SaaS offering is **SunDash**, an AI-platform for solar asset management

We also provide data driven energy management consulting based on our scalable energy management systems (EMS) platform



SunDash

AI driven Solar Portfolio Management System

SunStore

Optimally charging & discharging storage

SunPro

Empowering prosumers ecosystem

R&D Services

IIoT/ML/AI based energy consulting

Our Existing Footprint

450 MWp+ Capacity

Monitoring Solar Capacity across India, Australia, UAE, Spain and Kenya

400+ Solar Plants

5kWp – 100 MWp of individual solar plants, both rooftops and utilities

O&M Analytics

Increased solar generation with our advanced O&M analytics and benchmarking

International Utilities

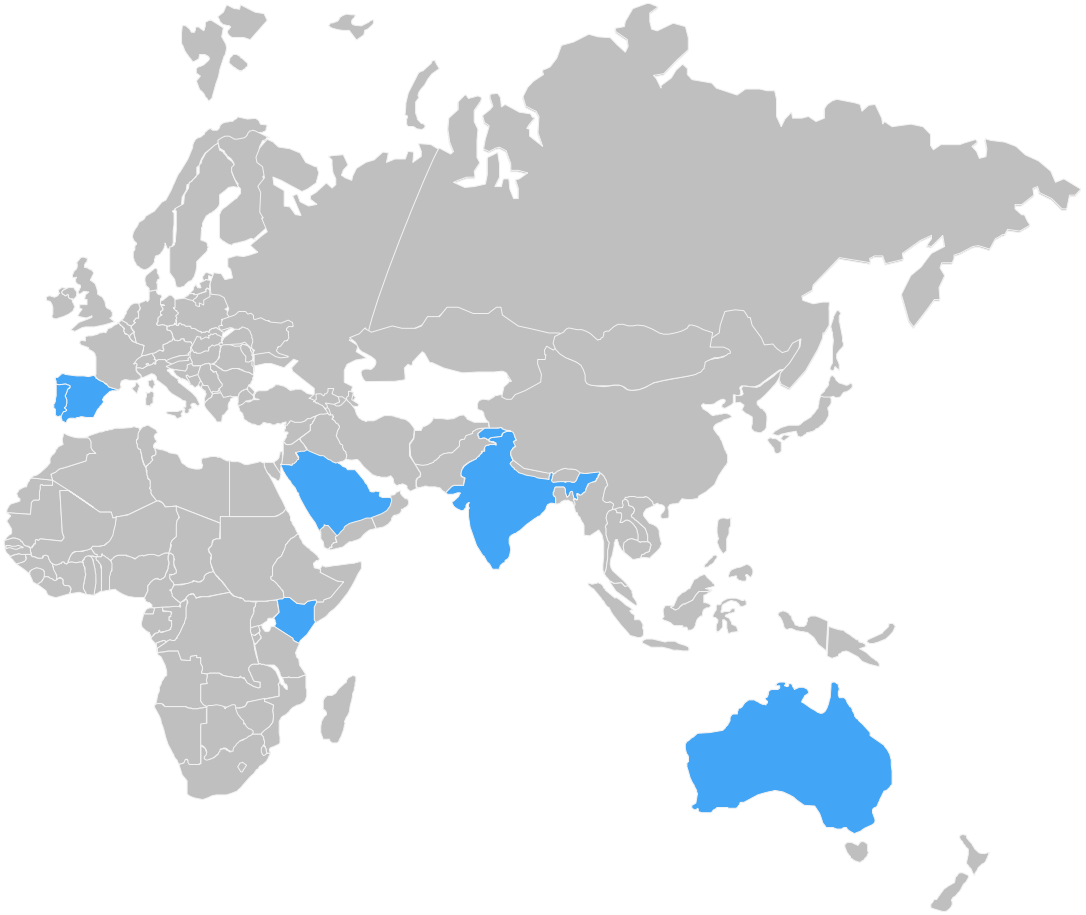
Working with utilities in Australia and Portugal on smart grid projects

Robust Platform

Collecting more than **15 million data points** everyday from several solar equipment

Energy Experience

The founding team has published 15 US patents and 40 energy research papers



Microsoft Research

Preventive Maintenance for Distributed Energy Resources – Selected by Microsoft Research Summer School 2018, won the best project award

ELEVATE 100
29th & 30th Aug 2017
Hotel Lalit Ashok Bengaluru

Selected as one of the top 100 innovative technology startups by Govt. of Karnataka.

YOURSTORY | TECHSPARKS2017
TECH30

YourStory picked DataGlen as one of the top 30 technology startups in India in September 2017

FREE ELECTRONS

The world's first global Energy Startup Accelerator

One of the world's top 12 energy start-ups selected among 400 applicants in the Free Electrons 2017

IESA
India Energy Storage Alliance

DataGlen received IESA award in Jan 2018

LAUNCHPAD
A Cisco-Startups-Partners Initiative

Received Inter Stellar award in the 2nd cohort of the Cisco Launchpad Initiative.

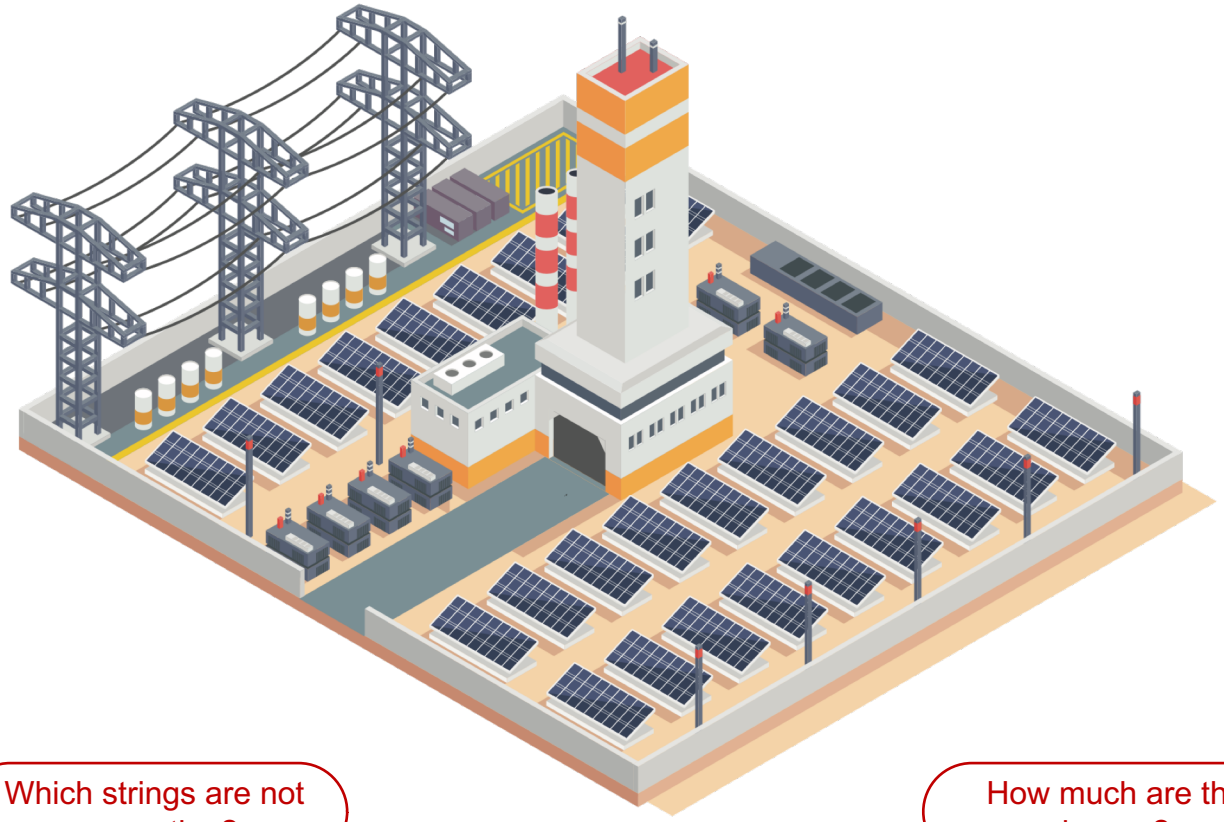
Selected Awards

DataGlen has been recognised with many prestigious honours: one of the 12 most innovative energy startups in the world by Free Electrons 2017, a Cisco Interstellar award and a Microsoft Research Best Project Award, etc.

Key challenges of managing solar assets

Corrective Maintenance

- Which data loggers are offline?
- Which devices are not sending data?
- Which inverters are raising alarms?
- Are all sensors giving correct values?
- Is evacuation happening?



Preventive and operational

- How to maintain plants configuration?
- How to generate reports, bills?
- Are SLAs being met?
- Are the customers happy?
- How quick is O&M team's response?

- What's the conversion efficiency of inverters?
- Which strings are not generating?
- How much are the losses?
- How much will be generation tomorrow?
- Do panels need cleaning?
- Is there a shade on a section of the plant?
- Tilt angle of panels & sensor aren't same?

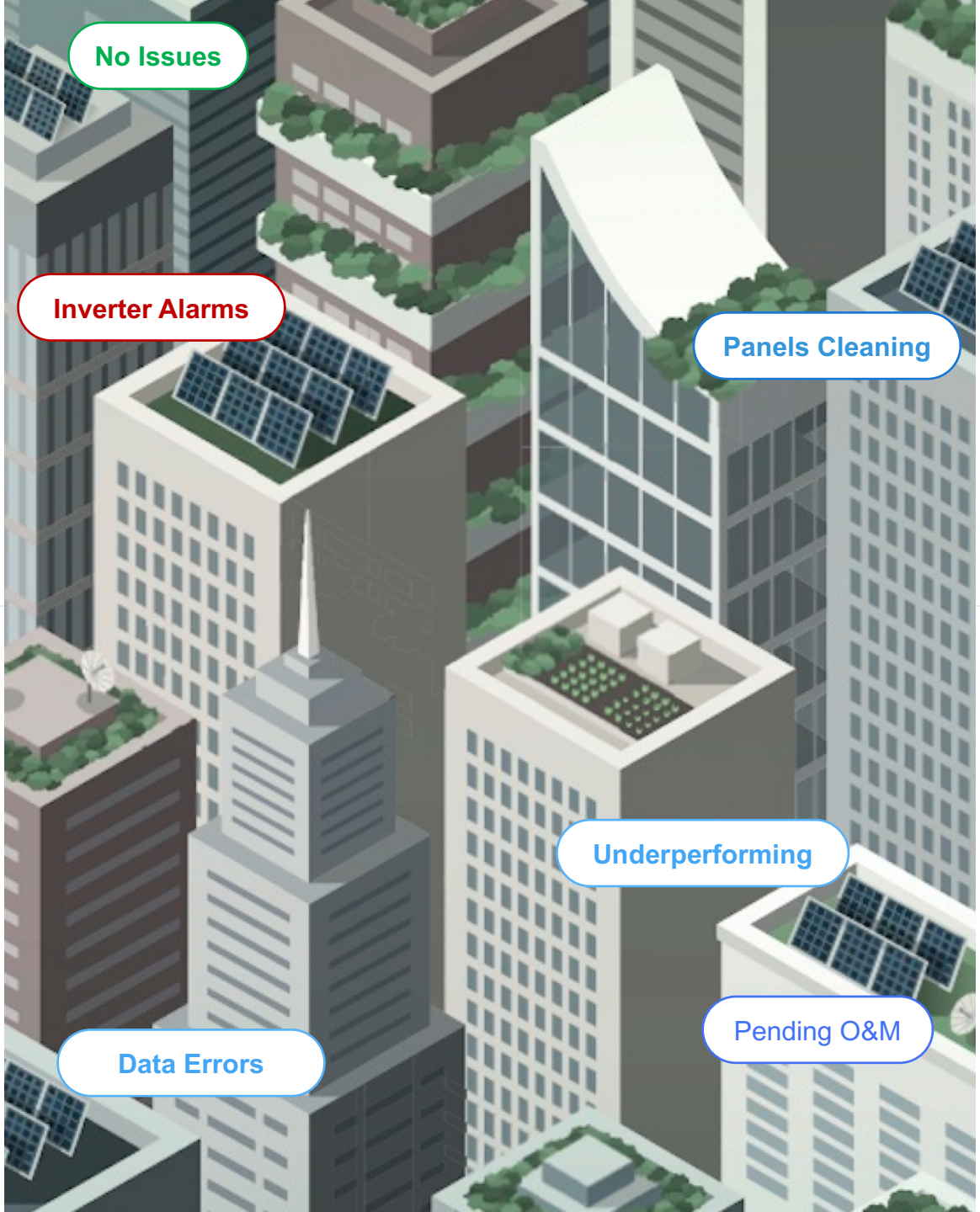
Predictive Alerts

ROBUST DATA COLLECTION FOR REAL TIME VISIBILITY

Data collection via Modbus, OPC, third-party data-loggers, SCADA, & PLCs. Data loss recovery via AI/ML models.

INCREASED PLANT YIELD WITH ADVANCED ANALYTICS

ML & AI based data integrity and recovery models, forecasting, & O&M analytics (cleaning recommendations, warranty enforcement)



SIMPLIFIED MONITORING, REPORTING BILLING AND ISSUE TRACKING

Integrated dashboards for portfolio, plant, alarms with inbuilt ticketing system to manage O&M teams

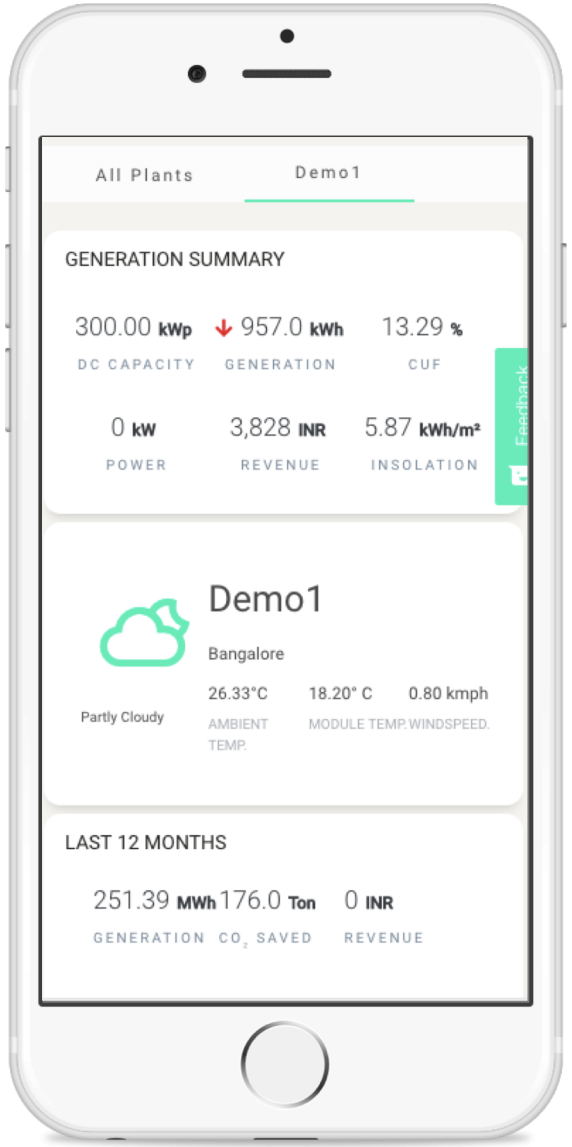
GENERATION CURTAILMENT AND BATTERY MANAGEMENT

Storage integration, Diesel Generator synchronization, and generation curtailment

Portfolio Dashboard

- Track portfolio generation, operational metrics, and events summary
- Filter plants based on client, geography etc. to view a subset of plants
- Find underperforming sections with section/roof level generation and metrics
- Generate reports instantly for portfolio generation

Plant Generation Dashboard



Generation benchmarking

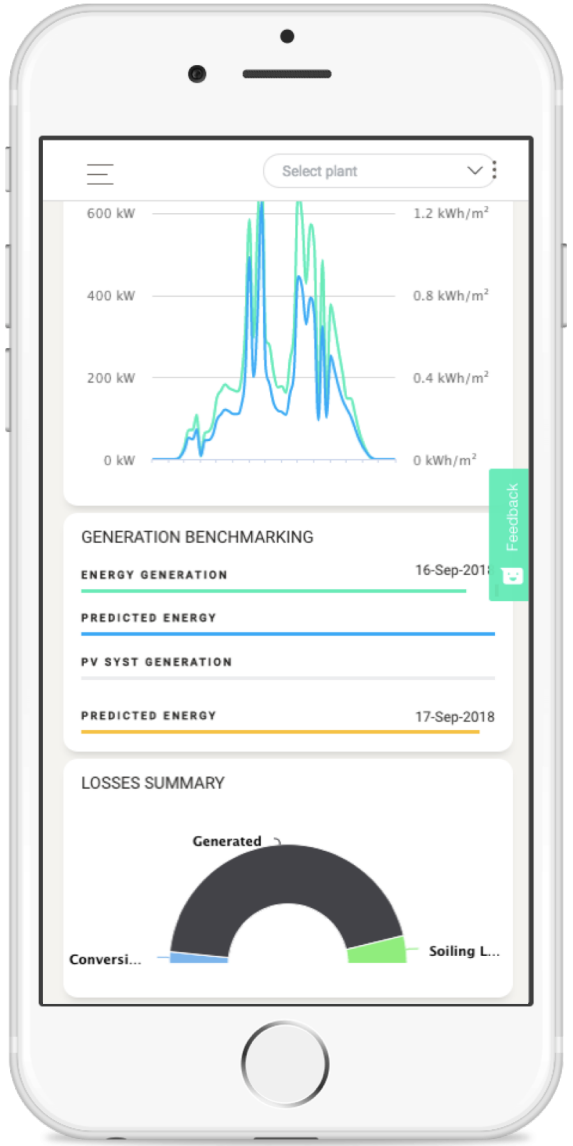
Benchmark energy generation with PVsyst and inbuilt forecasting module

Losses Analysis

Get a detailed loss analysis – AC, DC, Conversion, Grid downtime, Equipment failure, Soiling etc.

Generate Excel/PDF reports

Generate PDF, Excel reports for a day/week/month per plant/portfolio



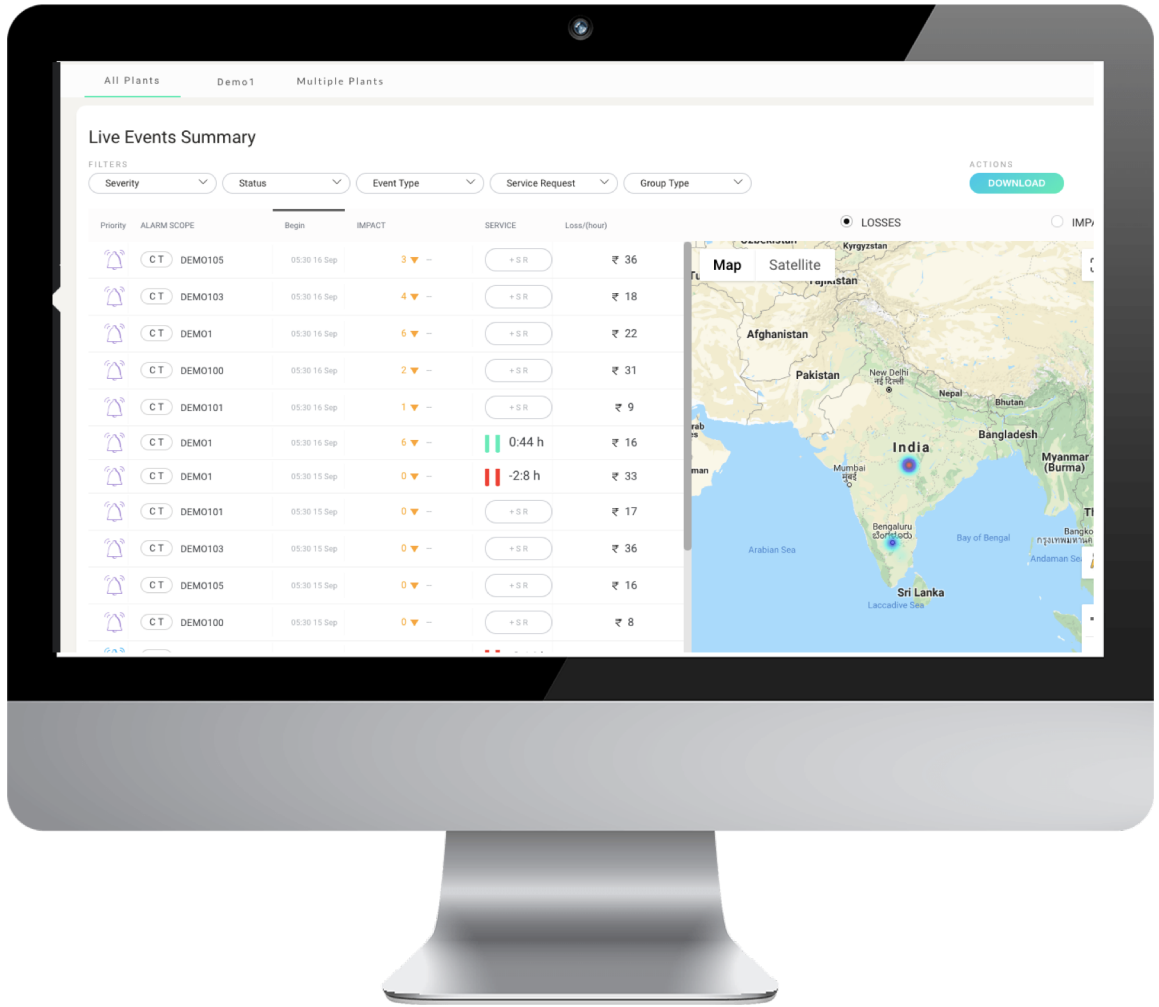
Portfolio Issues Tracking

Get a list of open corrective, preventive and predictive events in a single dashboard

Raise a service request from the tool to schedule an O&M visit

Open a ticket to see historical activities and comments

View, filter and download historical tickets



Prioritize issues

See potential loss of an open ticket (energy and revenue)

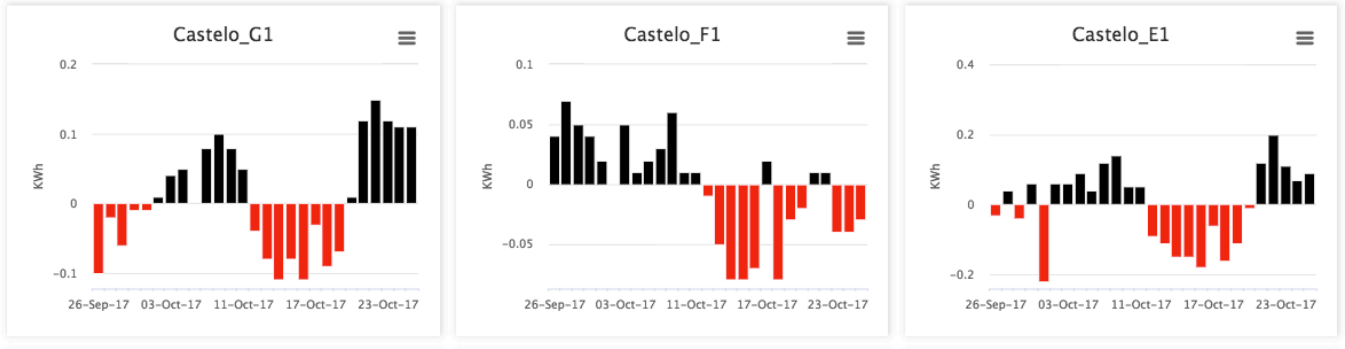
High-impact regions

View a collective map of ongoing events to filter high impact regions

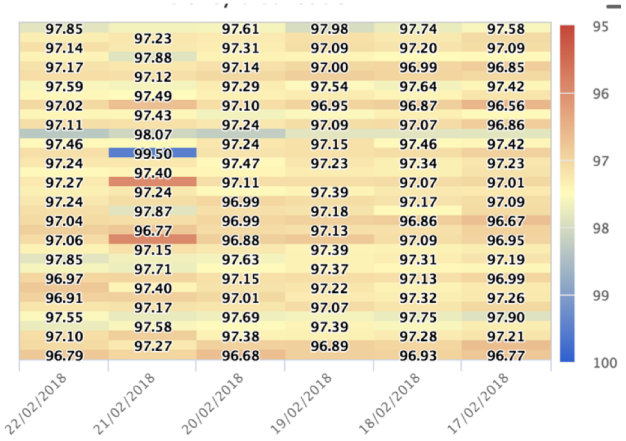
Manage SLAs

Manage service level agreements with O&M teams

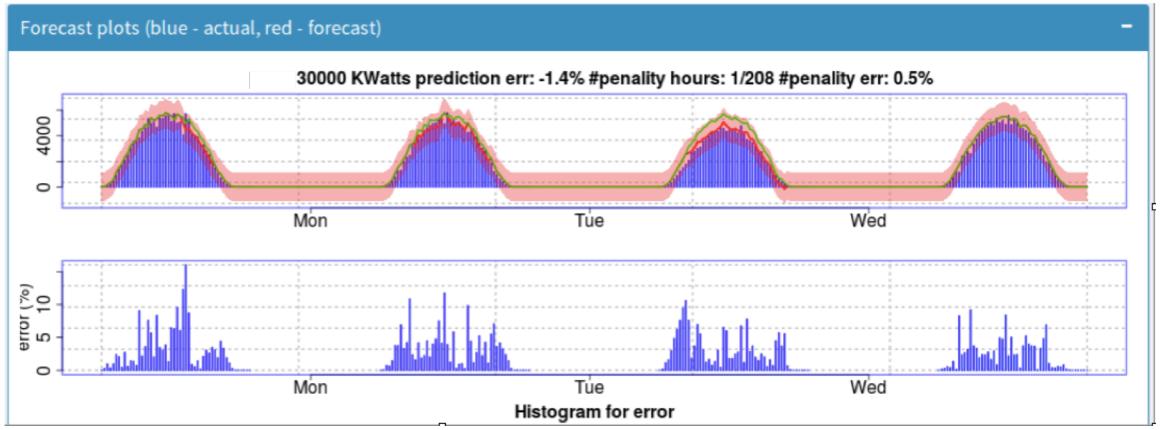
Actionable insights to improve generation



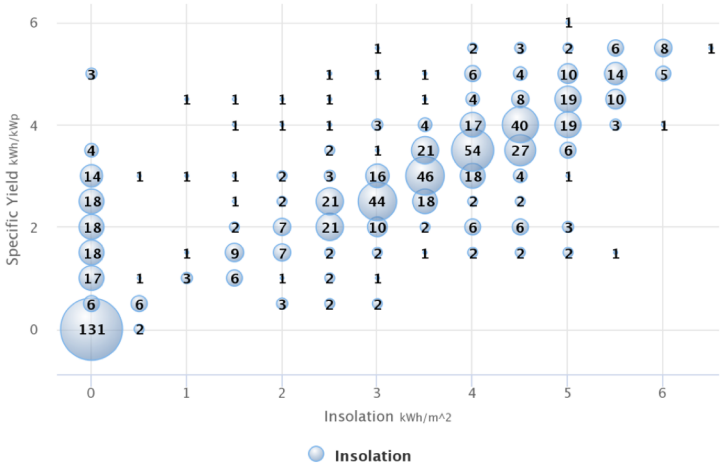
Cleaning Recommendations



Inverters Efficiency tracking

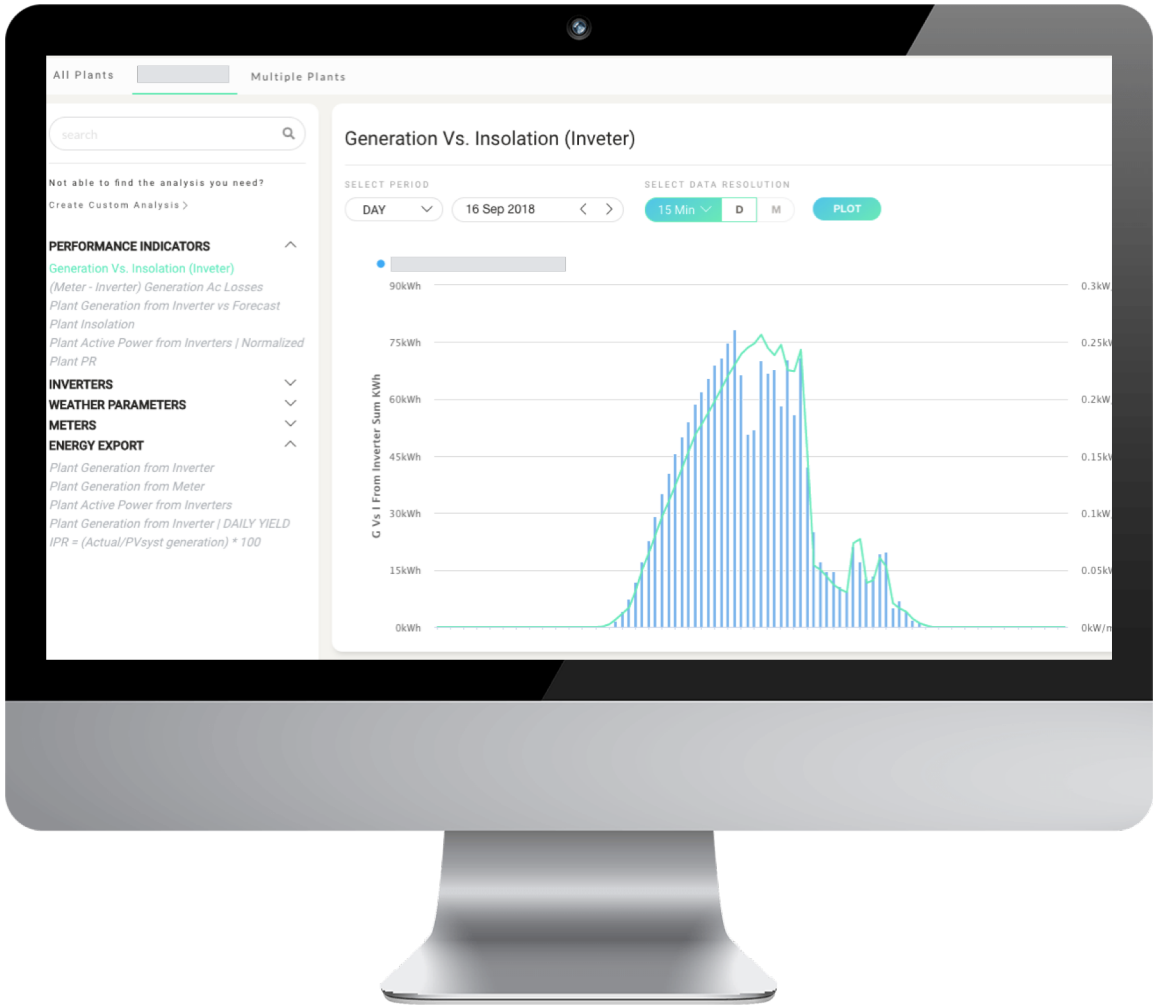


Forecasting and scheduling for compliance and benchmarking



Losses analysis

Custom Analysis and Dashboards



- Existing analysis on performance, inverters, meters and energy export
- Create custom analysis using pre-defined aggregation Functions and data streams
- Create custom dashboards aggregating several analysis from multiple plants

Mobile Apps

iOS and Android native applications

Portfolio Summary

Live generation summary for the entire portfolio

Access Control

Selective information based on users access level

Plant level information

Historical generation with operational metrics for each plant

Tickets View

Track tickets via the apps for mobile users and site engineers

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Enabling reliable Distributed Energy Systems through
Machine Learning and Artificial Intelligence

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