

# Renewable Insights



## Renewable Insights

The renewable energy industry is primed to enter a new phase of growth driven largely by increasing customer demand, cost competitiveness, innovation, and collaboration. Optimizing the performance of assets, rising technological advancements coupled with increasing adoption of new business models has led to rising demand for digitization to improve overall asset and operational agility. We offer a complete suite of products & services for streamlined asset management to help the global renewable industry maximize returns from their RE assets.



The 24\*7 Command Center team which centrally monitors the plants and issues work orders to the field engineers and ensure maximum generation

Remote Monitoring & Analytics of wind and solar power plants –Enable the team identify any issue instantly

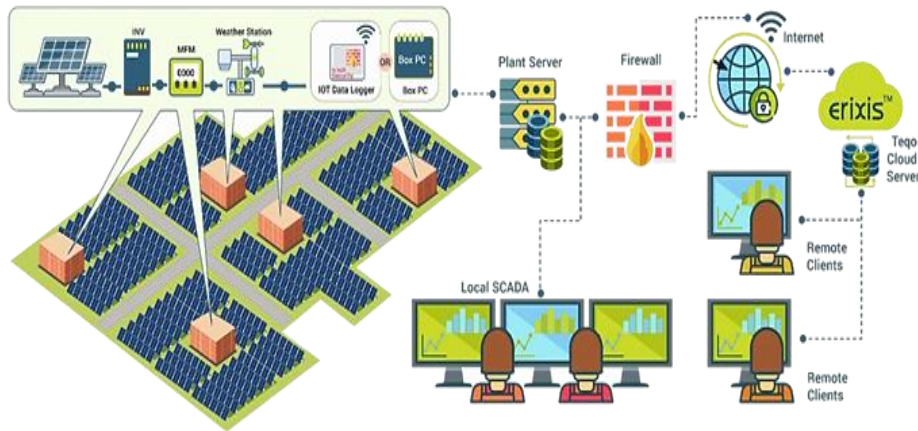


Capture details about entire asset infrastructure, spare parts, performance and work history to enable better repair vs. replace decisions and decrease reactive maintenance and unplanned down-time

Analytics platform to predictive



## IOT Data Logger Architecture



## A cutting-edge Solar PV monitoring and analytics solution

Solar Pulse helps asset owners and O&M teams to optimize the performance of their utility and rooftop solar PV plants.



- I. User Friendly Dashboards
- II. Real-time performance ratio & solar yield calculation
- III. Integrated Generation forecasting  
Equipment control
- IV. Executive and Technical Reports

## Analytics

An advanced solar farm modelling solution. Act as a **plant brain** to tell the owners to identify and mitigate the problem.

It takes data of the Plant configuration parameters, key KPIs, equipment health and helps efficiently manage the entire portfolio with an interactive user interface.



- I. Plant Losses Prediction
- II. PR Prediction
- III. Active Power Prediction
- IV. Predictive Maintenance

## Remote Command Center

The 24X7 Command Centre team which centrally monitors the Plants and issues work orders to the Plant Engineers and ensure maximum generation



- I. Global Dashboard
- II. Live Alarms Dashboard
- III. Alarms Map View
- IV. Equipment malfunction notification

## Renewable Assets Management

An advanced and simple to use Enterprise Asset Management. USP of the product is to simplify tasks for the on-site partners and tell the Management What is going on? Centralized alerts and data?

Focus is on Simplicity. User Friendliness. Completeness



- I. Asset Strategy & Planning
- II. Maintenance Management
- III. Health and safety indicators
- IV. Asset & Work Dashboard
- V. Field-Force Management
- VI. Workforce Management

## Our Presence





## Value Generation & Benefits



### Lender

- 100% Financial Tracking
- 100% Transparency

### OEM

- Improve Power generation based on real-time conditions
- Enhance operational efficiency and reduce costs via embedded industry proven best practices
- Reduction of service cost 10%

### O&M

- 100 % completion rate of planned maintenance
- 20% Cost Reduction
- 99.9% Plant Uptime

### Employees/Vendors

- Sustainable and Inclusive growth with 100% compliance
- 40% improvement in technician productivity
- 10 % Reduction in management cost through field force control and improving operational efficiencies
- 33 % Reduction in inventory cost through improved demand estimates

### Prospective Asset Owner

- Data driven Vendor selection through asset reports

### EPC

- Digital Handover Project
- Project Planning
- Budgeting and Forecasting
- TAT reduction 50%

### Leadership

- 5% NPV Growth
- Real-time dashboard to analyze and identify performance issue across portfolio

# Tech Mahindra



[www.techmahindra.com](http://www.techmahindra.com)



[energyutilities@techmahindra.com](mailto:energyutilities@techmahindra.com)



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