



Monitor and analyse the performance of your distributed energy assets.

HITACHI
Inspire the Next



Asset insights

e-mesh Monitor

Enhanced visibility into your distributed energy assets

Cloud-enabled digital solution to monitor, control and analyse your assets and site operations.

Industries and utilities are moving towards distributed energy, emphasising affordable and reliable clean energy. To comply with these demands and maximise revenue opportunities, asset owners need to continuously visualise performance trending and gain knowledge into site productivity.

e-mesh™ Monitor is a cloud-based digital platform, exclusively designed to aggregate data from distributed energy assets and turn that into actionable business insights. You can monitor your assets from anywhere and anytime. e-mesh Monitor helps to optimise performance and increase ROI from your distributed energy investments.

Key features:

- Data extraction from assets using an IoT edge device
- Data aggregation, analysis and storage in a secured cloud environment
- Real-time monitoring of distributed energy assets from anywhere, anytime

- Alarms, historical analysis and performance analytics reporting
- High-end intuitive web interface to visualise data from the field
- Act as a hosting environment for a set of software as a service (SaaS) e-mesh Applications

e-mesh Applications are a set of SaaS applications for descriptive, diagnostic, predictive and prescriptive analytics to improve site productivity, minimise down time, forecast renewables power generation and increase revenue opportunities. The easy-to-deploy, scalable and machine learning-based applications are available as four different suites: Analytics, Optimiser, Premium and Service.



Return on investment

- Reduced IT infrastructure CAPEX & OPEX
- Low installation & commissioning costs
- SaaS model with three subscription plans
- Monetisable operational insights



Scalable and extendable

- Easy to upgrade or downgrade between different plans
- Easy to integrate new DERs as your business needs grow
- Extend to new functionalities with e-mesh Apps



Cybersecurity

- Strict cybersecurity measures
- Authorisation & authentication polices
- Secured APIs
- Secure and authenticated connections



Operational excellence

- Dedicated DevOps
- Continuous delivery and support
- New applications trial versions
- Customer engagement
- Fast response to business needs
- Services over full project lifecycle



Visibility anytime anywhere

- Single platform for DERs monitoring, management and analysis
- Secure access 24x7
- Fast corrective response to any issue
- Avoid downtimes; increase productivity



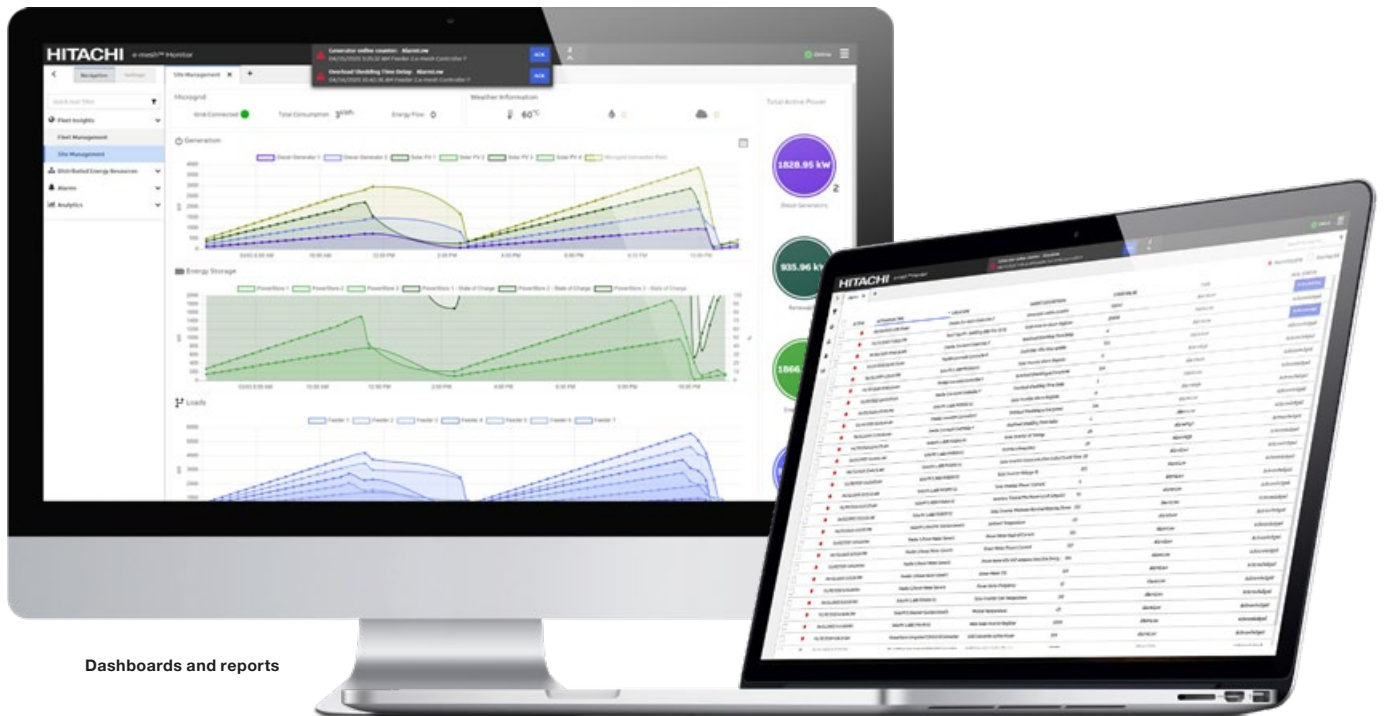
Intuitive user experience

- No software setup needed by user
- Easy to use and navigate
- Minimal training needs
- User friendly dashboards
- Clear information display

Cloud-enabled digital solution

Monitor, control and analyse your assets and site operations

Aggregate data from distributed energy assets and turn it into actionable business insights.



Dashboards and reports

Cloud services and operations

To optimise the infrastructure costs, all measurements and information collected from the site are stored in a secured cloud database. Users can apply custom date ranges, visualise performance trending and gain knowledge on site productivity.

Automated alarm system

All field level critical measurements are continuously monitored with a built-in algorithm to ensure smooth operations of the site with limited outages. In the event of any deviation from normal operating conditions, corresponding alarms are triggered.

Extended functionalities

In addition to the base functionalities of e-mesh Monitor, customers can subscribe to any e-mesh Applications depending on the business requirements.

Real-time monitoring of all connected assets

The monitoring includes dedicated dashboards to measure the productivity of the sites. The user-friendly design allows users to have overviews, system summaries and any kind of detail that is important for the safe and profitable operation of assets.

Performance analytics and reporting

A set of analytics dashboards and reports are available to optimise and maximise the performance of distributed energy assets. Insights such as productivity, efficiency, CO₂ emissions and system uptime, etc., are measured and displayed in these reports.

Hitachi Energy
Brown-Boveri Strasse 5
8050 Zurich
Switzerland

www.hitachienergy.com