

HONEYWELL DEPLOYS RENEWABLES TECHNOLOGY AT NEW SOLAR PARK

Case Study

**GERBEN PEK,
CEO, GUTAMI HOLDING:**

“Gutami Holding views Honeywell as a reliable partner who understands their needs and can provide high-performance solar technology, coupled with smart operations and software to get the most out of capital investments and improve return on investment. Honeywell provides a robust solution intended to monitor and operate a customer’s remote distributed assets, while guaranteeing specific business outcomes.”



Honeywell

OVERVIEW

Many renewable energy companies are currently channeling investments into digital transformation, advanced data analytics and Information Technology (IT) solutions to drive their long-term strategic and competitive success.

BACKGROUND

The energy industry is currently moving from a traditional, highly regulated production model dominated by electric utilities to a decentralized, deregulated model featuring a higher proportion of renewable energy sources such as wind and solar power.

As a leading company in the renewables sector, Gutami Holding B.V. is engaged in developing, constructing and operating solar and wind energy facilities in Europe, the Caribbean, Asia and Africa, and the Middle East. The company has established a broad platform of energy generation, sustainable energy and customer assets. Its strategic goal of connecting sustainability, marketing, finance, and creative and technically viable solutions is aimed at ensuring robust continuity and growth.

Gutami Holding has a key focus on building and running utility-scale solar power stations with the capability to feed excess power back to the electric grid for future consumption. These facilities are being constructed to meet the growing demand for solar power around the world.

CHALLENGES

Like other renewable energy companies, Gutami Holding is seeking to minimize power generation, transmission and consumption costs, while maximizing operational stability, reliability and sustainability. Additionally, given the complexity of supply and demand within the evolving renewables ecosystem, it needs to make informed, accurate operating decisions.

Most energy companies are currently only using a small amount of collected data for decision-making, thus missing out on opportunities to drive savings and efficiencies. However, they know that a robust data analytics capability can help



Figure 1: Renewable energy companies need improved data collection and analytics to drive better decision making.

them boost profitability while delivering strategic and competitive benefits.

Gutami Holding's new Wolvega 2 Solar Park is a Photovoltaic (PV) grid-tied power plant, which is comprised of PV arrays and a grid-tie inverter connected to the utility electricity grid. This type of solar power system works without any battery backup equipment.

Condition-based monitoring is a particularly important aspect of PV plant operation. Facility personnel need effective solutions and techniques for monitoring equipment condition and plant operation on a real-time basis, and for addressing potential problems at a very early stage to prevent breakdowns.

SOLUTION

Gutami Holding chose Honeywell to serve as Engineering, Procurement and Construction (EPC) contractor for the Wolvega 2 project based on its extensive, worldwide renewable energy track record and installed base, coupled with a strong

local engineering and support presence in The Netherlands. Gutami Holding has partnered with Honeywell in the renewables market for several years.

As a significant, turnkey EPC engagement in the renewable energy industry, the Wolvega 2 project required Honeywell to implement a full portfolio of critical software and hardware components. The project scope included:

- Front of the Meter (FTM) Solar PV
- Remote operations capability for distributed assets

Encompassing a 4.8 MW turnkey Solar PV solution along with Cloud SCADA and analytics, the overall offering ranged from smart edge devices such as PV modules, inverters, controllers, and Remote Terminal Units (RTUs), to mounting structures and cables/conduits. Honeywell also oversaw engineering, construction, testing, startup, and commissioning of the new solar facility.

To help Gutami Holding and other customers meet their business and profitability objectives, Honeywell has created a Remote Operation Center (ROC) capability, which provides expertise, skills and technology resources that renewable energy companies may not have on site. A remote collaboration, optimization and operations solution will help Gutami Holding manage its critical assets, regardless of their physical location, so they can securely access all their data, seamlessly deliver information when and where it's needed, create and monitor Key Performance Indicators (KPIs) for decision support, and enforce consistent operational and business processes.

An ROC established at Honeywell's Amsterdam/Schiphol office in The Netherlands will serve renewables customers and industry partners throughout Europe. The facility will provide remote operations & monitoring (O&M) and predictive analytics for maintenance, as well as outcome-based lifecycle management services based on performance and support KPIs and contractual guarantees.

Generally, KPIs mirror specific business goals—outcomes that Honeywell can help control with its technology. Sample KPIs can include CO2 metric ton reduction, guaranteed long-term financial performance of a project, warranty tracking and management, competency of staff, knowledge retention, training to

a specified standard, or metrics such as guaranteed Mean Time To Identify (MTTI) or Mean Time To Contain (MTTC) failures.

RESULTS

Although the renewable energy industry is playing catch up with digital transformation, it's doing so faster than many traditional industries—and it's adopting new technology at a similarly rapid rate.

Key to Honeywell's unique approach on the Wolvega 2 project was unifying various elements of the solar PV plant with multiple other sites on a single platform that offers intuitive performance dashboards for improved data visualization. This platform can not only scale and seamlessly integrate additional parks in a cost-effective manner, but also adapts to the customer's evolving power generation portfolio over time. Honeywell's solution is designed to maximize data reliability and optimize processes to improve overall operational performance.

The Wolvega 2 Solar Park project represents an important milestone for further collaboration between Honeywell and Gutami Holding. The two companies will work together in the future to integrate other renewable energy assets within a common ROC operational interface. This strategy will make it easier to monitor multiple solar power sites and identify discrepancies between different operations.

ABOUT HONEYWELL RENEWABLE ENERGY SOLUTIONS

Honeywell Renewable Energy Solutions help the renewable energy sector produce energy more efficiently, reliably and economically, while reducing the environmental impact and improving safety and regulatory compliance. Honeywell delivers contractual guarantees on performance and competency KPIs supported by a reliable data strategy and infrastructure for our customers with distributed assets.



Figure 2: Honeywell's Remote Operation Center (ROC) capability provides expertise, skills and technology resources that customers may not have on site.

CONCLUSION

Honeywell is committed to meeting the transformational, data-driven and skills-related requirements of multiple stakeholders within the energy value chain. On Gutami Holding's Wolvega 2 project, it provided a robust solution intended to monitor and operate the customer's remote distributed assets, while guaranteeing specific business outcomes.

For more information

Honeywell Renewable Energy Solutions can improve performance, visit www.hwill.co/RenewableEnergy or contact your Honeywell Account Manager.

Honeywell Process Solutions

2101 CityWest Blvd.
Houston, TX 77042

Honeywell House, Arlington
Business Park Bracknell, Berkshire,
England RG12 1EB UK

Shanghai City Centre, 100 Zunyi
Road Shanghai, China 200051

www.honeywellprocess.com

SS-21-04-ENG | 06/21
© 2021 Honeywell International Inc.

Honeywell