

Dealing with condensation in Thailand Biogas plant

Remote Care Service (RCS) real case

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The Case

Guascor Energy has an important presence in Thailand, in Biogas application. One of the examples is the supply of three G-56HM biogas engines for a Thai pioneer company in the development and operations of renewable energy power plants, through our partner Jiamphattana Energy International Co.Ltd.

Thailand has a humid tropical climate that favors the presence of condensation at certain times of the year and just before the plant grand opening the client identified **condensation in the engines**. Excessive condensate water can make the engine combustion worse, and even cause engine misfire so it is something to avoid.

The Solution

Within the contracted **Guascor Energy Remote Care Service (RCS), Essential package**, the partner informed the Guascor Energy Remote Care Center (RCC) about the situation.

The RCC analyzed the problem, leaning on the available data, and defined that the solution was to increase the auxiliary temperature by increasing the final setpoint of the dry coolers to 60°C.

Dry coolers setpoints as well as alarms settings, to avoid undesired power derates or engine stops, were modified remotely.

The time between the problem was reported and the solution implemented was 15 minutes



Auxiliary water circuit temperature and MAT (intake manifold temperature) reaction after dry cooler set point increase

The RCS

Remote Care Service (RCS) is based on the OEM expert knowledge, combined with modern tools for analysis, detection and diagnostics to provide to our customers and partners a great and powerful service tool.

Remote support packages



Essential

Connect and get insight into your equipment's health. Improved emergency support responsiveness in the event of an issue with advanced remote troubleshooting and access to equipment data.

Advanced

Proactively protect covered equipment by analyzing historical condition changes in order to reduce the risk of potential issues before they impact operations. Ensure operational continuity by resolving actual issues with proactive advanced remote troubleshooting.

Prime

Improved uptime and productivity potential with fast remote support, troubleshooting, and OEM expert guidance for optimized operation and routine maintenance. Close collaboration to develop enhanced optimization options.

The Business

Guascor Energy is a leading company with more than 55 years of experience in the design and manufacture of diesel and gas internal combustion engines with its own technology. The company offers some of the most efficient and environmentally friendly technology platforms, products and services in distributed power generation for oil and gas, industrial, institutional, commercial clients and rural electrification programs.

In addition, our offer is completed by a range of diesel engines for marine applications for both propulsion and on-board generation.

The Benefits

- **Efficiency:** Enables quick and accurate identification of equipment performance that can be improved and adapted continuously.
- **Availability:** Remote problems troubleshooting saves both time and resources.
- **Cost-effectiveness:** By reducing the need for physical inspections operational costs can be significantly lower.
- **Proactivity:** With the proactive monitoring of equipment performance potential issues can be detected and addressed before they escalate, preventing unexpected failures.
- **Expertise:** RCS connects customers with highly skilled and experienced professionals ensuring accurate analysis, precise recommendations, and effective solutions to address equipment issues.

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