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PPC Group: Four new, flexible gas turbine units reinforce the power stations in Rhodes and Kos islands

- *Modernization of Soroni (Rhodes) and Kos power stations with four new units of 58 MW total capacity.*
- *Works in Soroni for the third consecutive upgrade have already begun - kickoff in Kos within October.*
- *Strengthening of energy adequacy, security of supply, and resilience of the electricity system on both islands.*
- *State-of-the-art technology with low emissions and fast response times for greater flexibility.*

PPC Group is reinforcing the energy adequacy and security of supply in Rhodes and Kos by installing four new gas turbine units with a total capacity of 58 MW at the power stations of the two islands.

Works for the installation of the two units in Soroni, Rhodes have already begun, while the corresponding works at the Kos station are expected to kick off within October. Specifically in Rhodes, this constitutes the third upgrade at the Soroni plant, with the two previous phases completed over the last two years. The commissioning of the new units in Rhodes and Kos is scheduled for the summer of 2027. These are four Titan 130 type units, with a nominal capacity of 14.5 MW each and an efficiency rate of 33%-34%. The units are dual-fuel and incorporate technologies designed to limit gaseous and particulate emissions.

Features of the new units

The key feature of these new, flexible units is their **cold-start capability**. They require approximately 10 minutes to start up and reach their nominal capacity, allowing them to respond instantly to demand fluctuations and grid requirements. The **SoLoNOx** technology they utilize limits nitrogen oxide (NOx) and carbon monoxide (CO) emissions without requiring water injection.

At the same time, replacing heavy fuel oil (HFO) with diesel (light fuel oil - LFO), combined with emission control systems, **is expected to help reduce the environmental footprint of the stations**. The noise level of the new units will not exceed 65 dB at the station boundaries.

Supporting the islands' electricity system

The installation of the new units is expected to **increase the generation capacity of the stations in Rhodes and Kos, boosting the energy adequacy of both islands**. It is worth noting that their operation as flexible generation units will allow them to

rapidly cover system needs and act complementary to Renewable Energy Sources (RES).

Furthermore, the increase in available generation capacity is expected to strengthen energy adequacy in Rhodes and Kos and **contribute to reducing Public Service Obligation (PSO) costs**.

Investments in flexible generation

The two new projects in Soroni, Rhodes (Phase C) and Kos are part of PPC Group's broader plan to upgrade power generation infrastructure on the islands and enhance the flexibility of the electrical system. It is worth noting that in 2025, similar modernization projects were completed at PPC power stations on the islands of Santorini, Rhodes (Phase A), and Crete, while earlier this year, projects in Rhodes (Phase B), Chios, and Lesvos were also completed.

Through its new €24 billion Strategic Plan for 2026-2030, PPC Group continues to systematically invest in a new energy model based on flexibility, technological innovation, and interconnections. Large-scale RES development is coupled with investments in storage systems and flexible power generation, as well as energy management solutions utilizing artificial intelligence tools to bolster system stability and efficiency.

#PPC_Group #flexible #energy #security #islands #SDG

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