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PPC Group: Five new, modern flexible gas turbine units reinforce power stations in Chios, Lesvos and Rhodes islands

- *Modernization of Chios, Lesvos and Rhodes power plants with five additional, flexible gas turbine units of 90 MW total capacity*
- *Improvement of the environmental footprint by reducing exhaust gas emissions, particulates, and lower noise level*
- *Strengthening energy adequacy, security of supply and the resilience of the islands' Electrical System*
- *The Group consistently continues the implementation of flexible generation projects that contribute to energy stability*

PPC's power generation stations in Chios, Lesvos and Rhodes islands are being reinforced with five new, flexible gas turbine units. These new, flexible units are expected to play a decisive role in securing the energy adequacy of the three islands during the summer season, which is characterized by increased energy demands due to the rise in tourism.

More specifically, the trial operation of a total of four new gas turbine units is in full swing, two in Soroni (Rhodes) and two in Lesvos, each with a nominal capacity of 14.5 MW and an efficiency rate of 33% and above. At the same time, the commercial operation of a new, flexible gas turbine unit recently commenced at the PPC Group power plant in Chios island, which has already substantially enhanced the energy security and stability of the island's Electrical System. This modern, flexible unit, with a nominal capacity of 32 MW, an efficiency rate of 38% and equipped with low-NOx burners, represents yet another investment by the Group in upgrading and modernizing the power plants on the non-interconnected islands.

The new, state-of-the-art dual-fuel gas turbine units have been designed to increase the generating capacity of the island power stations, thereby ensuring their energy adequacy, while their use also contributes to reducing Public Service Obligation costs. Replacing heavy fuel oil (HFO) with light fuel oil (LFO), combined with the modern emission and particulate reduction systems installed in the new gas turbine units, contributes to reducing the environmental footprint. The noise level of the new gas turbine units, which does not exceed 65dB at the boundaries of the stations, is lower than that of existing units, further enhancing the environmental benefits.

As flexible, fast-response generation units engineered to balance volatile renewable energy grids, the new gas turbines act supportively to Renewable Energy Sources (RES), with rapid startup times, fast ramping and cycling, and enhanced load-following capabilities. In practice, they provide security to the power generation system, as they help reduce the risk of sudden blackouts, while fully complying with

the environmental legislation requirements of both the European Union and Greece.

The modernization of the power plants in Chios, Rhodes and Lesvos with the installation of modern gas turbine units is part of PPC's broader planning to strengthen the islands' energy adequacy and upgrade generation infrastructure to the benefit of local communities, with respect for the environment and a clear orientation towards sustainable development. It is worth noting that similar modernization projects were also completed in 2025 at PPC power stations in Santorini, Soroni (Rhodes) and Heraklion (Crete) with the installation of modern gas turbine units.

With its new €24 billion Strategic Plan for 2026–2030, PPC continues to invest systematically in a new energy model based on flexibility, technological innovation and interconnections. The large-scale deployment of RES is combined with investments in storage systems and flexible energy generation, smart grids, cross-border interconnections and AI-powered energy management solutions, enhancing the stability and efficiency of the system.

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

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