

Bahrain Integrated Power Plant



Article Overview

The Al Dur Independent Water and Power Plant (IWPP) is Bahrain's largest integrated power and desalination facility, generating 1,234 MW of electricity and 218,000 m³ of water per day.

Overview

The Al Dur IWPP is located in the Southern Governorate of Bahrain along the Arabian Gulf coast. It was developed to meet the growing demand for reliable electricity and high-quality water in the Kingdom. The plant combines a Combined Cycle Gas Turbine (CCGT) power plant with a Reverse Osmosis (RO) desalination facility, making it a critical component of Bahrain's energy and water infrastructure . The project was commissioned in February 2012 and remains fully operational .

Capacity and Technology

- Power Generation: 1,234 MW, primarily fueled by natural gas, with diesel as a backup .
- Desalination: 218,000 m³/day of potable water using RO technology .
- Turbines: Four GE 9FA gas turbines and two steam turbines, forming a combined cycle configuration .
- Cooling: Seawater cooling towers support efficient thermal management .
- Operational Flexibility: The plant can operate in both single cycle and combined cycle modes, optimizing efficiency and energy output .

Ownership and Development...

Article Content

Bahrain PROJECTS AT A GLANCE

* E& P = Engineering and procurement; EPC ITB = Engineering, procurement and construction invitation to bid; FEED = Front-end

EWA Announces the Launch of Bahrain's First Solar Power Plant in ...

The solar power plant will be located in the southern region of Bahrain, near Bilaj Al Jazayer, covering a total area of

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Developed under a power purchase agreement ("PPA"), this milestone project includes the construction of the world's

Acwa | Al Dur2 IWPP

Al Dur2 IWPP is an Independent Water and Power Project located at Al Dur in the Kingdom of Bahrain. The Plant shall be developed

Contact Us

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