

This project is one of the largest privately financed water and power projects in the world, and makes significant contributions to the socio-economic development of Saudi Arabia by supplying water and electricity to Jubail and the wider region at competitive rates. Marafiq is Saudi Arabia's third Independent Water and Power Project and represents an investment of nearly US\$3.4 billion, a joint venture by various investors including the Saudi Electricity Company, ACWA Power, Suez Energy International, Gulf Investment Corporation of Kuwait.

Marafiq IWPP is a combined cycle power station that consists of 16 units of gas-fired turbines with a capacity of 2,750 MW, and 27 desalination units producing 800,000 m³/day of desalinated water, the equivalent of 320 Olympic size swimming pools. The primary fuel of the project is natural gas used in a combined-cycle generation process in which excess heat from the gas turbine generators is fed into heat recovery steam generators to generate additional electricity via steam turbines. This system enhances the efficiency of electricity generation to over 55%, compared to the 50% in conventional plants.

The project operates on a 20-year build-own-operate-transfer (BOOT contract). The entire power output of the plant is supplied to SEC.

Marafiq IWPP

KINGDOM OF SAUDI ARABIA

Jubail



TECHNO-COMMERCIAL

Offtaker	Tawreed (a subsidiary of Marafiq)
Offtake Contract	PWPA-BOOT 20 years
Power	2,744 MW
Desalinated Water	800,000 m ³ /day
Project Cost	USD 3,359 Mn
COD	Q4 2010
ACWA Power Effective Stake	20%

STAKEHOLDERS

Other Investors	Power & Water Utility Co for Jubail and Yanbu, PIF, SEC and consortium of Suez, GIC
EPC	GE, HHI, SIDEM Consortium
O&M	JOML (Joint venture of Engie and NOMAC)



2,744 MW

800,000 m³/day



ACWA POWER
أكوا باور





Marafiq IWPP