

Martigues, France

**2 x 465 MW**



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# Martigues, France | 2 × 465 MW Repowering

## First Horizontal Boilers with Post-Combustion for EDF

### Project Description

The Martigues power station initially consisted of two oil-fired units of 250 MW each. Facility owner, Electricité de France (EDF), decided to repower the existing Martigues power station by replacing the former units with a combined cycle arrangement of two units, each of which is equipped with a GE 9FB gas turbine and a John Cockerill triple-pressure, supplementary-fired HRSG. Each repowered unit produces 465 MW.

The plant is located in the South of France, on the Mediterranean coast, near the Fos-sur-Mer industrial complex.

### The Contract

In 2007, EDF launched an international call for tenders for the sites of Martigues, Blenod and West Burton. In February 2008, EDF awarded to John Cockerill a contract for the three units in France: Martigues 5 & 6 and Blenod.

Under the contract, John Cockerill was responsible for the design, supply, erection and commissioning of the boilers.

### Plant Operation

The plant is designed for semi-base load operation: 4,000 hours per year.

### Gas Turbines

- GE 9FB type
- ISO rated 280 MW
- Fuel: natural gas

### Heat Recovery Steam Generators

- John Cockerill horizontal, natural circulation, fired HRSGs
- 3 output pressures to Steam Turbine + reheat
- Duct burner
- 93 MW supplementary firing

### Performances

GAS	°C	kg/s	
Inlet	642.2	657	
Outlet	99.2	657	
STEAM	°C	barA	t/h
HP	566.4	113.7	451.6
IP	294.8	29.1	11.9
LP	122.3	2.5	11.01
Reheater	565.4	26.9	461.73

### Schedule

- Contract Award February 2008
- Start of erection (first boiler) March 2009
- Commissioning first boiler October 2010
- HRSGs ready for PAC February 2011



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