

POWER

125 MW SIMPLE CYCLE WITH PROCESS HEAT INTEGRATION (CRUDE OIL)

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**COMPLETION
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PROJECT DESCRIPTION

Simple cycle unit for the cogeneration of 125 MWe and steam, characterized by the integration of the steam production with the vaporization of crude oil in the Heat Recovery Unit (HRU). The electric power is sold to the external network, while the steam (170 t/h at 42 bar) is exported to the adjacent refinery. The plant mainly consists of:

- One GT (General Electric 9E), fuelled with NG;
- One Heat Recovery Unit (HRU) for steam generation (1 pressure level) and crude oil vaporization, with post combustion;
- Cycle Auxiliaries.

Plant configuration and spaces are carefully optimized due to severe space limitations and in compliance with the safety requirements: HRSG is vertical type and built on top of the gas turbine.

FOSTER WHEELER ITALIANA SCOPE OF WORK

- Front-End Engineering Design, permitting assistance and cost estimate (years 2004-2005);
- Engineering, Procurement, Construction and Management services (started in year 2006).