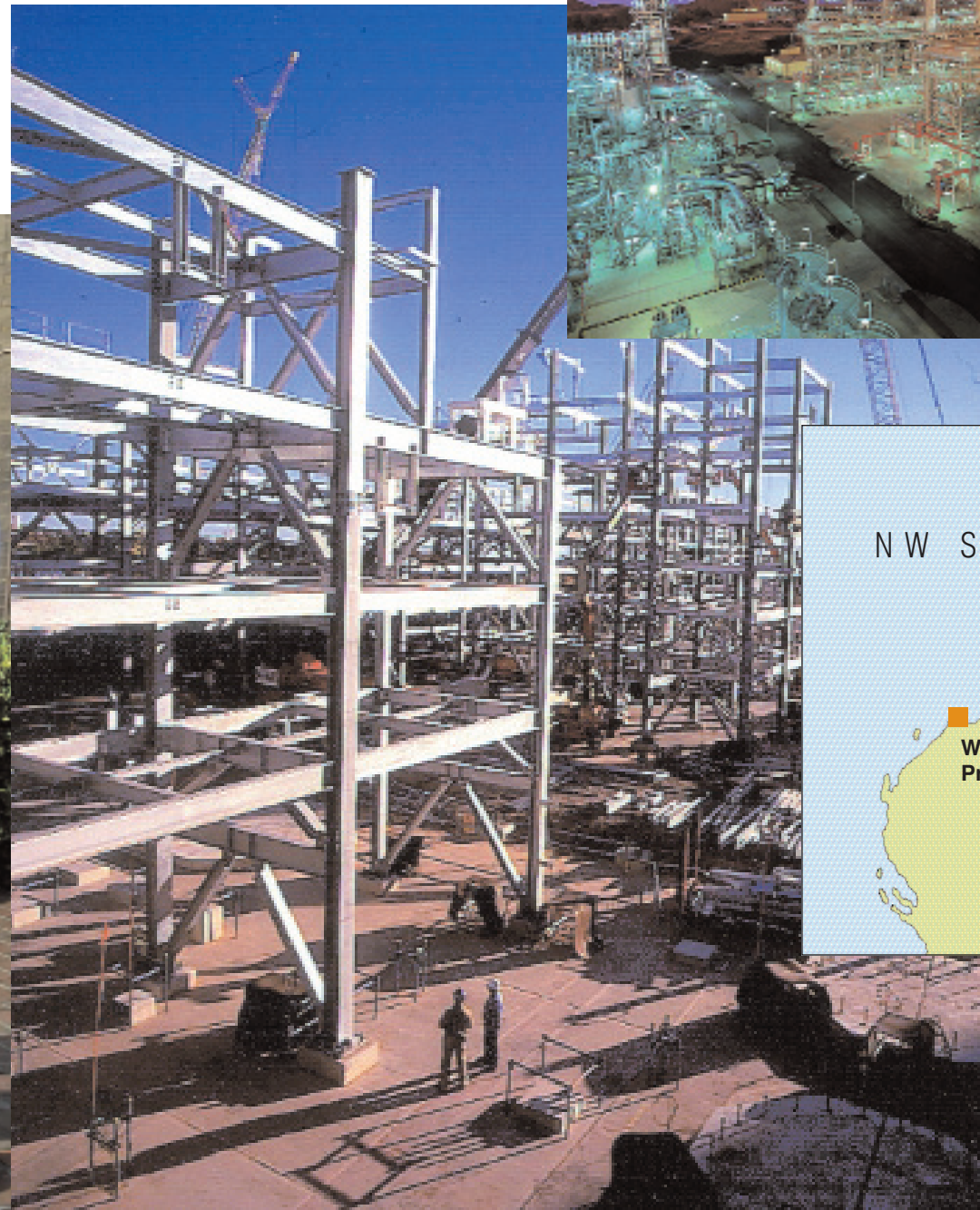


Energy recovery for Woodside LNG

Another Fired Heater success



The team. Left to right: Peter Holsgrove, project manager; Bill Wilson, design supervisor; Andrei Kalyuzhnov, mechanical design engineer; Tad Baldin, design supervisor; Chris Hamilton, manager, procurement; Rod Davis, design supervisor; and Michael Brooks, thermal design engineer.



Photography courtesy of Woodside Energy Ltd.



Foster Wheeler Fired Heater Division (FWFHD) has recently completed the design and fabrication of a gas turbine exhaust heat recovery unit for Train 4 of the Woodside LNG plant, the onshore part of Australia's huge Northwest Shelf Gas project.

The heat recovery unit increases the overall efficiency of the frame 7 gas turbine by using heat in the turbine exhaust to process regeneration gas and provide hot water services.

The contract was won amid strong international competition. The FWFHD project team at Shinfield Park carried out design,

engineering, and project management. Its own procurement group purchased all materials on a worldwide basis, free-issuing these to the selected Thai sub-contractor who, under FWFHD supervision, completed the fabrication of the modules, including trial fit-up in its workshop, within the tight project schedule.

All the materials, including the four fully-tubed and lined heat recovery sections, were moved to the dockside in cooperation with Thai authorities. 48 hours later, the modules, two stacks, ducting panels and ancillary equipment were safely stowed away on the heavy lift ship.

The heat recovery unit is currently under construction at site with support from the FWFHD construction advisor. It is the seventh such unit FWFHD has supplied to the Woodside project, starting in 1987 with Train 1.

FWFHD has recently completed a gas turbine heat recovery steam generator for a Thai client, and is currently designing the gas turbine exhaust hot oil heaters for Shell's Goldeneye onshore gas plant in Scotland, for which Foster Wheeler is the engineering, procurement and construction (EPC) contractor.

FWFHD is an autonomous group within Foster Wheeler, specialising in the design and supply of fired heaters and waste heat recovery units directly to clients and other contracting companies, as well as to the company's EPC projects.