

C.H.P. Installation Munster Joinery

Ballydesmond, Co. Cork, Ireland.



CLIENT:

Munster Joinery Ltd.

PROJECT DESCRIPTION:

Design and construction of a 3.0MW sawdust and wood chip fueled Combined Heat and Power facility.

The final installation will consist of 1no 12.0MW (15t/hr) boiler and 1no 3.0MW steam turbine and is been constructed over 2 phases.

Phase I - 12,0MW boiler, operating in hot water mode and associated heating system

Phase II - Retrofitting of the boiler to operate in steam mode and installation of a 3.0MW steam turbine electrical generator and ancillary systems.

COMMISSIONED:

Phase I - December 2005.

Phase II - Dependent on Supply of Fuel.

SERVICES PROVIDED:

Consultancy for project including:

Feasibility Study
Boiler Selection
Mechanical Design
Electrical and C&I Design
Construction Supervision

Conceptual Design
Turbine Selection
Civil Design
Project Management



C.H.P. Installation Munster Joinery
Ballydesmond, Co. Cork, Ireland.

Project Profile:

The Combined Heat and Power Plant (CHP) consists of a wood burning furnace, water tube boiler and steam turbine (not yet installed). The process involves burning the wood chips and saw dust to produce a high temperature exhaust, which in turn is passed through the waste heat boiler to produce steam. The steam has two purposes;

1. Heating for timber drying and space heating.
2. Electrical Generation.

The new CHP Utilities Building consists of the following:

A 27m long x 19m high x 9m wide Boiler House to house the Boiler and ancillary mechanical plant. The building is constructed from a structural steel portal framework with external walls of insulated twin skinned steel panels.

