

PROJECT REFERENCE

Esterification-Steam Maglev ORC Reference

Fiber-manufacturing waste-heat recovery

A representative Boomtec Industry project record for fiber-manufacturing waste-heat recovery.

Application	Fiber-manufacturing waste-heat recovery
Customer / location	Confidential industrial customer in China
Heat source	Esterification steam
Inlet temperature	99.884 °C
Inlet pressure	0.101 MPa (source basis; absolute/gauge basis requires confirmation)
Flow rate	18 t/h maximum recorded; source also records zero at minimum
Reference output	600 kW
Expander / model	Radial-inflow expander / ORC-X-650
Bearing / working fluid	Active magnetic bearing (maglev) / R245fa
Cooling / controls	Water cooling / DCS control; grid interface project-specific

Project configuration and supply boundary

ORC expander-generator, condenser, evaporator, preheater, condensate cooler, receiver, working-fluid pump, working-fluid filter, main process valves and control system

Reference status

Project status recorded in source file: operating

Scope note: This summary translates only clear information available in the project record. Final equipment selection, performance, certification, interfaces and supply scope remain application-specific and require confirmation against the customer's actual operating data and agreed project boundary.