

PROJECT REFERENCE

Urea-Process Hot-Water ORC Reference

Urea-process heat recovery

A representative Boomtec Industry project record for urea-process heat recovery.

Application	Urea-process heat recovery
Customer / location	Confidential industrial customer in China
Heat source	Desalinated water
Inlet temperature	105 °C
Inlet pressure	0.35 MPa(a)
Flow rate	200 t/h
Reference output	550 kW
Expander / model	Radial-inflow expander / OTG-0.55
Bearing / working fluid	Active magnetic bearing (maglev) / R245fa
Cooling / controls	Water cooling / DCS control; grid interface project-specific

Project configuration and supply boundary

Maglev ORC expander-generator, heat exchangers, working-fluid pump, control system, electrical system, chiller, instruments, valves, piping and working fluid

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.