

Coal-Chemical Flash Steam ORC Project

Representative low-pressure flash-steam heat recovery application

Representative project information | Client and exact site details omitted for confidentiality

APPLICATION AND PROJECT BASIS

Heat source	Flash steam
Inlet temperature	119.62-122.6 °C
Inlet pressure	0.10-0.12 MPa
Flow rate	25 t/h
Annual operating basis	7,200 h/year

EQUIPMENT CONFIGURATION

ORC model	OTCG-2.2/114
Rated design output	2.2 MW
Turbine / bearing	Axial-flow turbine / oil-lubricated bearing
Working fluid / cooling	R245fa / water cooling
Control	PLC control

TYPICAL SUPPLY / INTEGRATION SCOPE

- ORC generator, evaporator, condenser, preheater, working-fluid pump and associated process equipment.
- Electrical distribution, cabling, instrumentation, control system and interface piping within the defined plant scope.
- The working fluid is heated in the heat exchangers, expanded in the turbine-generator and condensed for recirculation.

APPLICATION NOTE: The source record describes the project as operating normally. No customer-specific performance guarantee is stated in this reference.