



02/ WASTE HEAT RECOVERY FROM POWER STATIONS

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When it comes to exhaust heat recovery from power stations Organic Rankine Cycle (ORC) technology guarantees better efficiency for both gas and diesel engines and small gas turbines.

In comparison to traditional Rankine Cycle applications, for temperature under 400°C and for small power output ORC can offer more advantages becoming sometimes the only practical solution.

ORC technology also eliminates the requirement for water treatment and makeup. EXERGY's Radial Outflow Turbine

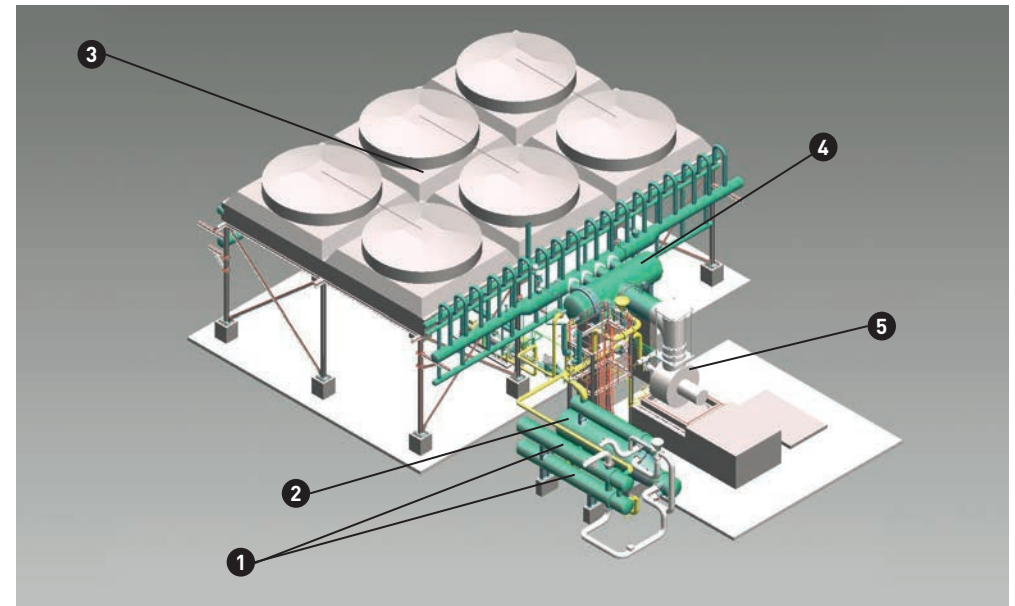
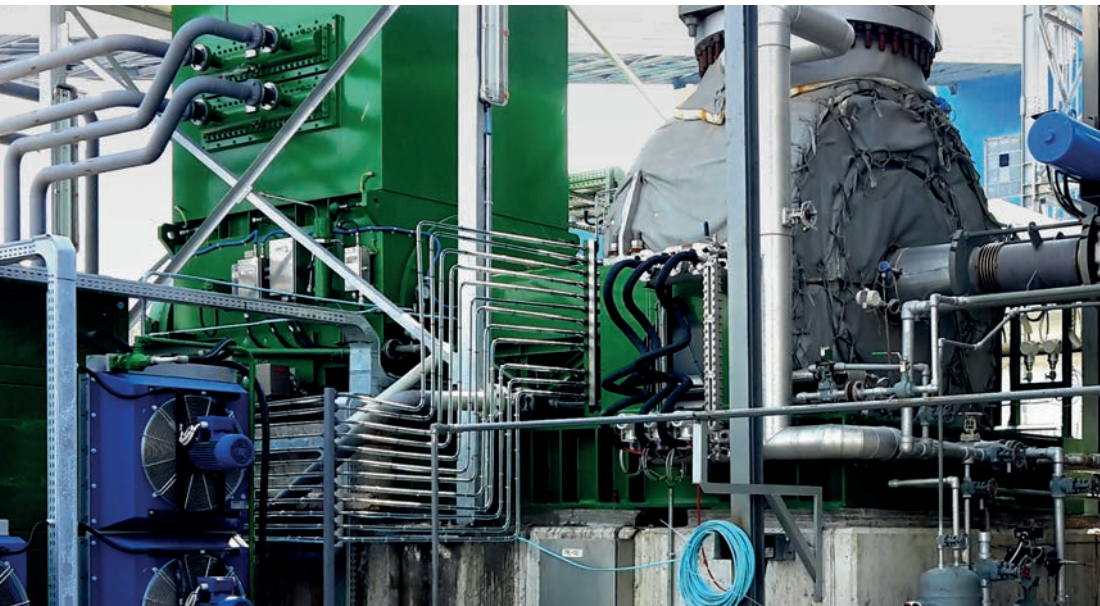
offers all the advantages of the ORC technology with higher efficiency and lower operations and maintenance costs for Power Stations of any size.

APPLICATIONS:

- > GAS ENGINES
- > DIESEL ENGINES
- > BIOGAS ENGINES
- > GAS TURBINES
- > COMPRESSOR STATIONS

ADVANTAGES:

- > NO WATER TREATMENT PLANT OR MAKE UP
- > AUTOMATED OPERATION
- > COMPETITIVE CAPITAL COSTS, LEADING TO FAST PAYBACK
- > HIGH EFFICIENCY AT A VARIETY OF OPERATING TEMPERATURES AND LOADS
- > FAST START UP AND SHUT DOWN
- > FLEXIBLE PLACEMENT, AWAY FROM THE HEAT SOURCE IF REQUIRED



1 Preheater 2 Evaporator 3 ACC 4 Recuperator 5 Radial outflow Turbine (ROT)