



MARKET SEGMENTS

Industry

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BOOTH NO.

A29 Heat Power · Netherlands

Product: Rankine Compression Gas turbine (RCG)

Supercharged steam turbine systems for industrial heat and power

THE NEED. The competitiveness and environmental impact of heat intensive industrial processes can be much improved by reducing the use of energy. Efficient and fast responsive cogeneration systems are not yet available for small scale industries in the range of 250kW-2MW electric and 750kW-6MW thermal power.

THE SOLUTION. The novelty of the Rankine Compression Gas turbine compared to existing steam cycles is that the steam turbine drives the compressor of the gas turbine cycle. This means that the combined cycle installation can provide electrical power at rapidly changing loads, perform peak shaving operations and give torque when the load is standing still. For a combined cycle, this is unique.

KEY FEATURES.

- Add-on to boiler and furnace systems.
- Components with a track-record.
- Electricity and steam.
- Modular.
- Rigid industrial.

VALUE PROPOSITION.

- CO₂ emission reduction.
- Flexible decentralised energy supply.
- Multi fuel and crude biomass furnace compatibility.
- Power output boost of a steam cycle by 20%.
- Rapid response time for peak shaving and balancing electricity grid.

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STRATEGIC PARTNERSHIPS/ CUSTOMER REFERENCES

Houtindustrie Schyndel

✓ **COMMERCIALISED**