



FROM HEAT TO ELECTRICITY

Againity AB

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EXPERTISE

Againity develops and constructs robust and high-performing ORC turbine systems. The ORC converts low temperature heat (< 90 °C) into sustainable and local electricity production from 50 kWe to 2.5 MWe. Common heat sources include biomass boilers, waste incinerators, biogas boilers, and waste heat from gas turbines or diesel generators.

» TECHNOLOGY

Againity's system is based on the long-known Organic Rankine Cycle (ORC) technology. The technology includes a steam turbine set in motion by the pressure of a vaporized internal working medium. The rotating turbine drives a generator that produces electricity. The ORC system is delivered pre-assembled and connected with two pipes to the heat source and two pipes to the cooling water (e.g. district heating return flow or air cooling system).

» SERVICE / INNOVATION

Thanks to the unique design of Againity's patented turbine and the low number of moving parts in the system, a high-quality product can be offered. This minimizes the need for service (normally less than 1 day/year) which significantly shortens the payback time compared to similar technologies.

INTERNATIONAL EXPERIENCE

Sales of ORC turbines and additional equipment including boilers and cooling systems within Scandinavia. Among our customers are E.ON, Solör Bioenergi, Ragn-Sells, Ystad Energi, Eidsiva Energi, among others.

» CASE STUDIES

- Test plant, 6 years in operation, 700 starts, >99,9 % availability
- 15 ORC systems installed at district heating plants
- 1 ORC installed at a greenhouse
- 1 ORC installed at landfill
- 1 ORC installed at a chemical factory (industrial waste heat)
- 1 ORC installed at wastewater treatment plant

TARGETING SECTORS

Againity is active in a wide range of industries since the ORC turbine system can utilize any type of heat as long as it can be converted to hot water, steam or thermal oil with a temperature exceeding 90°C. Examples of heat sources are biomass boilers, waste incinerators, industrial waste heat, and waste heat from gas turbines or diesel generators.



SWEDISH BIOENERGY
CLIMATE SOLUTIONS

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is a platform focusing on internationalization of Swedish bioenergy technology and knowledge. Funded by the Swedish Energy Agency.

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