AGAINITY'S ORC TECHNOLOGY CONVERTS BIOMASS HEAT PLANT TO CHP

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Againity AB and SWEP have joined forces to enable southern Sweden local district heating provider Perstorps District Heating to upgrade its 12 MW biomass-fired heat plant to a CHP plant.

Perstorps District Heating is a joint venture between the E.ON group and Perstorp's municipality. The upgrade has been achieved by installing an Againity Organic Rankine Cycle (ORC) unit at the Energy Center.

Againity have provided a range of ORC turbines across Scandinavia. Any heat source with a temperature of 90C and over can be utilized in the system, eg. heat from a boiler that burns wood chips, landfill gas or household waste, waste heat from a gas engine, hot water from solar panels, or excess heat from an industrial process.

ORC technology includes a turbine set in motion by the pressure of a vaporized internal working medium. The rotating turbine then drives a generator that produces electricity. In optimal conditions electrical efficiency up to 20% can be achieved for the largest plants that, for example, utilise waste heat from large gas turbines.

SWEP BPHEs play an important role in the process. One set of heat exchangers work as the evaporator, meaning enabling the refrigerant to convert from liquid to vapor and another set of heat exchangers operate as the condenser (as such in reverse), condensing vapor to liquid.

Elin Ledskog, Sales Manager at Againity AB said;

Perstorps Fjärrvärme was already contributing to a sustainable energy system through its renewable district heating deliveries and has now taken an important step by supplementing this with renewable electricity production. Alongside the environmental benefit, the unique design of our ORC turbine minimizes the need for service and maintenance and significantly shortens payback time."

- Ends -

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About SWEP

SWEP is the world's leading supplier of compact brazed plate heat exchangers (BPHEs). These products are used where heat needs to be transferred efficiently in air conditioning, refrigeration, heating, and industrial applications. SWEP is close to its customers, with representation in more than 50 countries and its own dedicated sales force in more than 20 countries. Highly efficient production units in Sweden, the USA, Malaysia, Slovakia and China enable SWEP to serve customers all over the world. SWEP is part of the global Dover Corporation, which is a multi-billion-dollar, NYSE-traded, diversified manufacturer

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