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Turboden's 10 MWel ORC Technology to Support Tallgrass' Decarbonization Efforts in Ohio

Project to provide 100% decarbonized power to the University of Dayton, reducing its carbon footprint by over 70%

Brescia, Italy — 24 June 2024 – Turboden S.p.A., a Mitsubishi Heavy Industries group company, is pleased to announce its collaboration with **Tallgrass** to develop an innovative waste heat to power facility near Washington Court House in Fayette County, Ohio. Turboden will supply its advanced Organic Rankine Cycle (ORC) technology for the facility, which is scheduled to be operational by the end of 2025. The decarbonized power generated will be supplied through the local power utility AES-Ohio, the University of Dayton, which meets 100% of the university's electricity needs.

This project marks a significant advancement in the University of Dayton's commitment to sustainable energy, with the potential to reduce its carbon footprint by more than 70%. By capturing wasted heat at Tallgrass's Rockies Express Pipeline compressor station, Turboden's solution will contribute to decarbonizing the U.S. oil and gas sector and promote sustainable development.

"There's a growing demand for decarbonized energy, and Tallgrass is committed to identifying existing resources, such as wasted industrial heat, that can produce decarbonized power," noted Tallgrass' Vice President of Power and Transmission Justin Campbell. He added, "We're confident we've identified the right team for this project and look forward to working with Turboden to deliver it for the benefit of our customer."

The facility will feature a **10 MW ORC system with an air-cooled condenser** designed to recover wasted heat from three existing gas turbines. Known for its high availability and flexibility, Turboden's solution offers fully automated operations with minimal maintenance costs, all while being water-free.

Beyond supporting the University of Dayton's energy sustainability objectives, the project offers significant benefits for other potential stakeholders. These benefits include the ability to generate and deliver decarbonized electricity through power purchase agreements, enhanced sustainability of operations, and reduced energy consumption. Additionally, the waste heat to power technology is eligible for various tax credits and incentives under the federal Inflation Reduction Act.

The environmental benefits of this project are profound, with an expected generation of up to 85 GWh of emission-free energy and a consequent reduction of over 50,000 tons of CO₂.

"This project exemplifies Turboden's commitment to advancing sustainable energy innovation toward a cleaner, decarbonized future," said Paolo Bertuzzi, CEO and Managing Director at Turboden. "The success of this project, along with numerous other projects and opportunities in North America, has led us to consider opening a U.S.-based subsidiary to enhance our operations and presence in the region."

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About Turboden:

Founded in 1980, Turboden S.p.A. is an Italian firm and Mitsubishi Heavy Industries group company, providing global technological solutions for energy efficiency and the decarbonization of industries and utilities. It is a leader in the design, manufacture, and maintenance of Organic Rankine Cycle (ORC) systems, which are highly suitable for distributed generation. These systems generate electric and thermal power by harnessing multiple sources, including renewables such as biomass and geothermal energy, as well as waste heat from industrial processes, waste incinerators, engines, or gas turbines. Today, Turboden is expanding its technological solutions to include gas expanders and large heat pumps, enabling it to play a broader role in decarbonizing the district heating sector and energy-intensive industrial processes.

About Tallgrass

Tallgrass is a leading energy infrastructure company focused on safely, reliably, and sustainably delivering the energy and services that fuels homes and businesses and enables our quality of life. Tallgrass operates over 10,000 miles of infrastructure stretching from Ohio to Oregon and from North Dakota to South Texas. Learn more at [Tallgrass.com](https://tallgrass.com).

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