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Turboden to Revolutionize Energy Landscape at Riyadh Cement Company with Groundbreaking 13 MWe ORC Power Plant

Brescia – October 2nd, 2024 – Turboden, a Mitsubishi Heavy Industries group company and a global leader in Organic Rankine Cycle (ORC) systems, proudly announces the first project in the Kingdom of Saudi Arabia: a **13 MWe ORC power plant at Riyadh Cement Company**. This landmark project marks a significant stride forward in the Country's pursuit of sustainable energy solutions and decarbonization.

The venture represents a historic milestone as the first-ever ORC plant to be installed within the Kingdom, underscoring Turboden's commitment to pioneering innovative technologies in the GCC markets. Notably, the **13 MWe ORC heat recovery power cement plant stands as the largest of its kind in the world**, positioning Saudi Arabia at the forefront of sustainable industrial practices. In alignment with the nation's ambitious Vision 2030, the project plays a **pivotal role in advancing the Kingdom's decarbonization agenda**.

By harnessing waste heat from clinker coolers and pre-heaters of the cement plant (2 kilns of 5,000 tons/day each), the ORC technology offers unparalleled energy efficiency **while eliminating water consumption** which is a scarce and precious resource— a testament to Turboden's dedication to eco-friendly solutions. Key technical features of the plant include its **water-free operation**, air cooled condenser integrated, **low OPEX, unmanned and automatic operation**, setting a new standard for cost-effective and environmentally conscious energy generation.

Sinoma Energy Conservation, serving as the Engineering, Procurement, and Construction (EPC) company, exemplifies the collaborative effort driving this transformative initiative.

*"Turboden is honored to spearhead this groundbreaking project in collaboration with Riyadh Cement Company," affirmed **Andrea La Gioia, General Manager of Turboden**. " With around 460 ORC plants in 52 countries, 50 in waste heat recovery application, our ORC technology represents a game-changer in the global energy landscape, and we are proud to support the Kingdom of Saudi Arabia in its transition towards cleaner, more sustainable energy sources."*

As a trusted partner in sustainable energy solutions, Turboden continues to expand its technological portfolio, offering tailored solutions to meet the evolving needs of industries worldwide. Through initiatives like the Riyadh Cement ORC power plant, Turboden remains steadfast in its mission to drive positive environmental impact and foster a brighter, more sustainable future.

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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.

www.turboden.com

About Riyadh Cement Company:

Riyadh Cement Company is a leading manufacturer of building materials, specializing in white cement products used in a wide array of commercial and architectural applications. With a global clientele, Riyadh Cement remains dedicated to delivering quality products while championing sustainable practices. RCC is one of the largest gray cement companies in the Saudi Arabia with a total installed capacity of above 3.6 million tons of gray clinker per annum.

www.riyadhcement.com