

PRESS RELEASE

Turboden to supply a Heat Electrification Solution to Co.Pro.B. - Italia Zuccheri Supporting the Decarbonization of Steam Production in the Sugar Industry

Brescia, Italy – 2 April 2026 - Turboden, a Mitsubishi Heavy Industries group company and global leader in energy efficiency and industrial decarbonization solutions, has signed an agreement with **Co.Pro.B. – Italia Zuccheri**, Italian fully integrated sugar producer, for the supply of Turboden first **centrifugal Mechanical Vapour Recompressor (MVR) system**.

“This new project in the electrification of high-temperature process heat—particularly for industrial steam production—further strengthens Turboden’s position as a key player in this field. Following the recent start-up of the world’s largest steam-producing heat pump for Delfort’s paper mill in Finland, Co.Pro.B.’s decision to adopt our technology represents a clear confirmation of the trust in our technology. Mechanical vapor recompressors is a fundamental technology to decarbonize industrial processes and Turboden, with its new family of proprietary compressors, intends to play an important role.” States **Paolo Bertuzzi, CEO & Managing Director Turboden S.p.A.**

Co.Pro.B., an Italian agricultural cooperative operating two sugar factories and managing the entire beet-to-sugar value chain, aims to replace fossil-fuel-based steam generation with a more efficient, more sustainable and electrified solution.

Currently, the factory uses a gas-fired boiler to produce steam for the evaporation columns that concentrate sugar juice. Turboden Mechanical Vapour Recompressor will replace this system by recovering low-pressure vapour generated in the final stage of evaporation—vapour that would otherwise be released into the atmosphere—and upgrading it to the required process conditions.

The system will recompress steam from **0.38 bar(a) and 80°C to 1.8 bar(a) and 117°C**, delivering a total output of **22 tons per hour**. By reusing internally generated steam, the solution will significantly reduce natural gas consumption while ensuring the same steam quality, reliability, and **improved overall process efficiency**.

A key requirement from Co.Pro.B. was the installation of the MVR within an existing space with strict dimensional constraints. Turboden engineering team developed a compact solution that perfectly fits within the available footprint, while maintaining optimal accessibility and service clearances.

To further streamline implementation, the MVR system will be delivered on a **preassembled skid**, designed within the maximum transportable dimensions. This approach will significantly reduce on-site erection and commissioning activities, minimizing downtime and ensuring faster integration into the plant

Turboden centrifugal MVR will ensure high compression performance and seamless integration with the existing evaporation stages.

Key features of the solution include:

- High compression head centrifugal compressor
- Inverter-driven regulation for optimized performance and flexibility
- Materials compliant with Food-Grade requirements
- Integrated steam cleaning system to remove residual sugar from the flow
- Special sealing solutions designed for vacuum inlet conditions, preventing air infiltration
- Seamless integration into the existing evaporation process

With this agreement, Turboden further consolidates its position as a technology partner for energy-intensive industries seeking proven, quick-to-install, reliable and highly efficient decarbonization solutions.

For more information,

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About Turboden

Founded in 1980, Turboden S.p.A. is an Italian company and part of the Mitsubishi Heavy Industries Group, providing global technological solutions for power generation and heat electrification for industries and utilities. Turboden is a recognized supplier in the design, manufacture, and maintenance of proprietary turbomachinery, including Organic Rankine Cycle (ORC) systems, gas expanders, high-temperature heat pumps, and Mechanical Vapor Recompression (MVR) systems.

Today, Turboden is a reliable technology partner, throughout the entire project lifecycle, supporting decarbonization and enabling higher energy efficiency in district heating networks and energy-intensive industrial processes worldwide.

www.turboden.com

Co.Pro.B.

Co.Pro.B. (Cooperativa Produttori Bieticoli) is the only sugar producer in Italy to guarantee an entirely national supply chain, from field to table. Founded in 1962 and based in Minerbio (BO), the Cooperative brings together around 7,000 farms and manages two production plants in Minerbio (BO) and Pontelongo (PD). Through its Italia Zuccheri brand, COPROB dominates the market with a strong focus on sustainability, traceability and innovation, having been the first company to launch 100% Italian organic raw beet sugar. www.coprob.com