

## Industrial decarbonization: GreenYellow signs a 10-year energy efficiency agreement with Eulogio Ramos

Thanks to an ambitious energy transformation at its Barcience (Toledo) site, Eulogio Ramos, a player in the agri-food sector specializing in ham drying, is significantly reducing its carbon footprint while improving industrial performance, achieving 2.3 GWh in energy savings and avoiding 233 tons of CO<sub>2</sub> annually. This comprehensive energy efficiency project was designed and deployed by GreenYellow, an international leader in decentralized energy transition, in partnership with IcoEnergía, an EPC company responsible for technical execution, and is based on advanced solutions in refrigeration, heat recovery, and electrification of thermal processes.



### Three Strategic Levers to Transform Energy Efficiency

The project is structured around three main axes:

#### 1. Modernization of the refrigeration system

The existing installations were replaced with a system using natural refrigerants, notably ammonia (NH<sub>3</sub>), significantly reducing environmental impact while improving operational efficiency. The setup incorporates industrial refrigeration equipment supplied by the Spanish manufacturer Intarcon.

#### 2. Valorization of waste heat

A heat recovery system was deployed to harness the heat generated by the refrigeration compressors. This energy is reused, via heat pumps, to produce the heat required for ham drying, ensuring optimal energy performance. The system also relies on glycol-water pumps from Grundfos.

### 3. Electrification and operational elimination of gas boilers

The installation of a heat pump capable of producing hot water at 65°C eliminates the operational use of gas boilers, drastically reducing CO<sub>2</sub> emissions. Retained as a backup solution, these boilers give way to a predominantly electrified model, which is key to reducing dependence on fossil fuels. The system integrates a heat pump supplied by the Spanish company Keyter.

#### Concrete environmental and economic benefits

Thanks to innovations and the high performance of the equipment — with a coefficient of performance (COP) nearly three times higher than that of a conventional gas boiler — Eulogio Ramos will benefit from:

- **2.3 GWh of energy savings per year**, equivalent to the **annual electricity consumption of more than 1,700 Spanish residents**.
- **233 tons of CO<sub>2</sub> avoided annually**
- An impact equivalent to **planting 2,885 trees**

This project strengthens both the company's environmental commitment and its industrial competitiveness.

#### A technically demanding project executed while ensuring operational continuity

The project required overcoming major technical challenges, including integrating new installations without disrupting production, coordinating continuous works, and adapting existing hot and cold-water networks.

GreenYellow deployed a centralized ammonia system, replacing obsolete equipment with more efficient solutions while integrating advanced energy management tools for real-time monitoring and optimization.

*As Romain Viscaye, Operations Director Spain & Energy Efficiency Director Europe at GreenYellow, emphasizes: "The integration of ammonia refrigeration technologies and heat recovery allowed us to eliminate dependence on fossil fuels in industrial thermal processes. In addition, continuous monitoring and intelligent energy demand management ensure that the expected savings remain stable over time, delivering measurable and sustained value for the client."*

#### A project that supports local industry and ensures long-term impact

All equipment is manufactured in Spain, contributing to local industrial development. Intarcon and Keyter have production sites in Lucena (Córdoba), where the systems are fully assembled. This project follows a long-term partnership model: the **10-year Energy Efficiency Agreement** includes **study, design, financing, implementation, operation, and full maintenance of the installations**. It optimizes return on investment, facilitates access to public aid, and ensures sustainable energy performance during the contract duration.

Additionally, the project has **supported the local economy** by prioritizing regional companies and workforce.

## A concrete lever for decarbonizing the agri-food industry

Through this achievement, GreenYellow confirms its commitment to the energy transition of European industry, demonstrating that decarbonization is both a performance lever and a genuine energy shield, enabling agri-food players to secure costs, reduce exposure to energy price volatility, and strengthen long-term competitiveness.

**Juan Antonio Ramos Nombela, General Manager of Eulogio Ramos,** adds: *"This project marks a key step in our sustainability and industrial modernization strategy. It allows us to reduce our carbon footprint while improving process efficiency, thereby enhancing our competitiveness in a context of increasing environmental requirements. Having a partner like GreenYellow has enabled us to undertake this transformation with strong technical and financial guarantees."*

### ABOUT GREENYELLOW

GreenYellow, a French company founded in 2007, has become over 19 years a major player in decentralized energy transition in France and internationally, and a true partner for the Commercial & Industrial (C&I) sectors as well as the public sector in their decarbonization journey and quest for energy independence.

An expert in energy efficiency programs and the electrification of uses, as well as in decentralized solar photovoltaic production and energy storage, GreenYellow supports companies across the entire value chain. The group ensures studies, design, financing, development, and operation of assets, enabling its clients to reduce their energy consumption, electrify their processes, and produce green, local, and competitive energy, while strengthening their overall competitiveness.

In 2025, the projects carried out by GreenYellow helped avoid the emission of almost 646,000 tons of CO<sub>2</sub> equivalent. The group also aims to achieve carbon neutrality ("Net Zero") for scopes 1 and 2 by 2040.

Operating in some 15 countries across 4 continents, GreenYellow innovates by constantly enriching its unique and global platform of offers to support its 1,400 clients in their transition to a more sustainable energy model and meet the challenges of climate change. [www.greenyellow.com/en](https://www.greenyellow.com/en)

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