

CASE HISTORY

3SUN for Finissaggio & Tintoria Ferraris S.p.A.



Location

Benna (Biella)

Installer/EPC

Kennew Srl

Modules used

3SUN Serie B60

Plant capacity

2.1 MWp

Type of installation

Ground-mounted agrivoltaic plant

Installation completion date

11/12/2025





Finissaggio & Tintoria Ferraris S.p.A. headquarters

Need. Reduce energy costs and increase production autonomy.

Finissaggio & Tintoria Ferraris, a leading company in the **Biella textile district** that has been active for over 60 years, was born from the vision of founder Francesco Ferraris. Today, the third generation leads the company with the responsibility of honoring family tradition and the connection with the territory.

In the textile sector, finishing has the task of ennobling the product, improving its original characteristics.

For the company, this commitment to improvement is reflected today in the desire to transform its energy processes, making them **more efficient and more responsible** towards the environment and the Biella territory.

The company has embarked on a structured journey with Kennew and 3SUN to **optimize plant management**. To reduce dependence on the electricity grid, the company has identified self-production as the strategic lever for strengthening its production model.

It was therefore necessary to plan an increase in the share of self-consumption to ensure business continuity even in the phases of maximum energy demand, focusing on the integration of 3SUN module technology to **generate solar energy and maximize long-term performance**.

Solution. An agrivoltaic plant integrated with 3SUN technology.

To meet these needs, a **2.1 MWp onshore agrivoltaic plant** was built, designed to ensure high energy production and maximum integration with the industrial context.

Consisting of **3,388 3SUN B60 modules** produced at the Catania Gigafactory, the plant uses double-sided technology to capture **both direct and reflected light from the ground**, increasing the overall yield and efficiency of the system.

3SUN modules stand out for their **high efficiency, reliability and performance stability** over time, which are fundamental characteristics for an industrial-scale plant.

The plant has been integrated with a **1.1 MWh storage system**, which optimizes the use of the energy produced, storing it during hours of peak radiation to make it available at peak demand.

The project was developed by **Kennew Srl**, which oversaw the entire construction process: from design to commissioning.

The integration between **3SUN** modules, inverters, and the storage system has created a **flexible and scalable energy infrastructure**, perfectly sized to support energy loads and ensure high quality standards throughout the supply chain.



Plant installed at Finissaggio & Tintoria Ferraris S.p.A.



Plant installed at Finissaggio & Tintoria Ferraris S.p.A.

Result. Greater energy autonomy and operational stability.

The adoption of the HJT CORE-H® technology of the 3SUN modules allowed **Finissaggio & Tintoria Ferraris** to achieve a **self-consumption level of 46%**, strengthening the plant's energy management. Estimated annual production, exceeding 1,225,800 kWh, translates into a **concrete reduction in energy costs** and less exposure to changes in the electricity market.

Integration with the storage system allows energy flows to be managed more efficiently, supporting production even at peak demand stages. Performance stability ensures **precise and predictable scheduling**, a decisive factor in preserving the dyeing industry's high quality standards.

The strategic collaboration between **3SUN**, **Finissaggio & Tintoria Ferraris**, **Kennew**, and **Sungrow** has led to the creation of an integrated energy system, capable of generating concrete value. The intervention ensures a balance between respect for the local ecosystem, security of production continuity and profit generation.



3SUN photovoltaic system after installation



Francesco Ferraris
Managing Director
Finissaggio & Tintoria Ferraris



The 2.1 MWp agrivoltaic plant with a 1.1 MWh storage system is a strategic project for us. Among the partners chosen, 3SUN played a central role: with Kennew's coordination we collaborated excellently."