

Plastisavio has selected Cefla and its Engineering Business Unit to build a new trigeneration plant

Cefla has designed a trigeneration plant for Plastisavio as part of their ambitious investment plan that seeks to channel 100% of the 2022 budget into GREEN projects.

Plastisavio, a company that has, since 1972, been building up its know-how and sharpening its skills in the industrial and food packaging lamination sector, **has selected Cefla to construct a new-concept trigeneration plant** as part of an ambitious 2022 investment plan.

For almost 90 years **Cefla's Engineering Business Unit** has been designing, building and managing technological systems in the civil, industrial and energy sectors, improving well-being and comfort in the places where people live, work and share moments of leisure.

It has been involved in the energy sector for over 40 years. It designs, builds and runs cogeneration and trigeneration plants, heat recovery and gaseous flow purification facilities and large-scale district heating systems that provide light and heat to hundreds of thousands of people.

The Business Unit operates as a partner to industrial customers, providing them with close support in completing the energy and plant engineering set-up (especially on new plants).

This is done jointly with the end customer: construction of the plant/energy architecture, engineering of the content, construction of the facility and subsequent maintenance of everything that's installed.

Here, the project consists of a natural gas trigeneration plant. It is based on a 2.3 MWe internal combustion engine capable of meeting the company's internal electrical energy and refrigeration requirements up to a maximum of 1.6 MWf with the help of an absorption cooling system.



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The project follows the supply of an initial 1.2 MWe trigeneration plant, built by Cefla in 2020. The latter was already providing self-produced energy more efficiently than traditional grid supplies, resulting in CO₂ emissions savings of to 3,000 tons per year.

With this second-stage project, to be completed in 2022, **Plastisavio will be able to self-produce all the energy needed for its production processes and achieve total savings of up to 9,000 tons of CO₂ per year.**

“A major investment for next year concerns energy. In addition to slashing emissions and producing more power, we’ll be able to retrieve 100% of the thermal energy released by the engine and convert it to cooling power that can be used in production processes or used to heat buildings or dry recycled materials. Moreover, we’ve set up the system so that a district heating system for local schools and the public swimming pool can be established in the near future in collaboration with the municipality of Mercato Saraceno. It’s a very ambitious project indeed”, confirms Pierpaolo Rossi, General Manager of Plastisavio.

The organizational framework of Cefla's Engineering Business Unit allows it to provide an integrated service that includes:

- Feasibility studies
- Engineering and technological design work
- Plant construction and maintenance

*“While 2020 was a very difficult, at times dramatic year for many companies, we have succeeded in keeping the balance sheet extremely healthy. For us, this is a source of great pride and motivates us to do even better and push ahead with new developments. A key example of this is our ongoing investment in the energy sector, with the takeover of German company **Plant Engineering GmbH**, a specialized designer and builder of cogeneration power plants, biomass plants and plant engineering services in the Energy sector”* states **Massimo Milani**, Managing Director of the Engineering BU.