

# Gema Superb implements Enel X solution for energy efficiency

## ★ BENEFITS

Annual energy consumption reduced significantly

Carbon dioxide emissions reduced by 114.2 t/year

Average annual electricity production of 251.16 MWh/year



Wood processing



Sebiş, county of Arad



Photovoltaic system located on the roof of Gema Superb production facilities

## ENEL X CUSTOMER

**Gema Superb** is an economic center located in Sebiş, county of Arad, which includes halls for production of home and garden furniture and upholstered furniture.

## CHALLENGE

The developer Gema Superb wants to improve their in-factory energy efficiency look for solutions to optimize energy consumption and the related costs, as well as reduce their annual carbon footprint.

## SOLUTION

Enel X, the division for advanced energy services of the Enel Group, proposes the placement of an photovoltaic panel energy system on the roofs of the building.

The stand-alone photovoltaic system consists of:

- > **771 photovoltaic panels**, with polycrystalline-type cells, each with a power of 325Wp
- > **3 power inverters** 100 kW and 50 kW
- > Monitoring system

- > Special metal support structure for fixing onto corrugated sheet metal

The system was designed for self-consumption. The equipment and technologies used by Enel X in the project have high performance and reliability, and are sourced from traditional producers on the global photovoltaic system market: Canadian Solar, Schneider, Eaton, ABB.



## BENEFITS

### Reduction of annual consumption

The solution proposed by Enel X has an installed capacity of 250.58 kW and will help the facility reduce the CO2 emissions by 114.2 tons per year.

### Reduction of costs

Gema Superb will achieve a significant reduction in their annual costs using green energy.

### Digitalization of processes

Using high-efficiency equipment to find the ideal cost-benefit ratio, Enel X Romania works with specialized software developers and applications to optimize and monitor the proposed photovoltaic systems. Thus, Gema Superb benefits from state-of-the-art technologies to maximize the energy produced and the performance obtained, with a high sustainability ratio.



„The energy efficiency solutions Enel X Romania proposes for Gema Superb production halls allow independent electricity generation, higher energy efficiency and cost effectiveness, by cutting down the electricity costs and reducing the impact on the environment by reducing the carbon footprint.”

Laurențiu Brumaru, Head of Sales and Marketing e-Industries, Enel X România

“We are ready to make the transition to green, sustainable energy, and the solution proposed by Enel X brings us closer to our goal. For us, it is important for us to be able to provide clean energy along the entire production flow, while improving energy efficiency.”

Cosma Gheorghe, director general Gema Superb