



### Case Study

## Reduction Of Energy Consumption At Zagreb

The Zagreb manufacturing site has the highest energy consumption across the Dechra Group and in the 2024 financial year accounted for 54% of all energy used across the business (2023: 55%). The high energy demand is linked to the volumes and range of products manufactured at the site including Mepron, which the site reports uses 70% of site gas and 40% of site electricity. The team at Zagreb have already made many improvements to make the site more sustainable, and received accreditation to ISO 50001, the international standard for Energy Management, in 2021. This energy management framework outlines the best way to achieve energy efficiency and reduce carbon emissions and directs the site to monitor and set in place energy performance indicators, set targets for reduction and continually improve their overall energy efficiency.

Since accreditation, the site has implemented the following project with the aim of reducing energy consumption and its carbon footprint:

- Solar power plant 1.5 MW integrated on existing roofs (25% of site electricity needs).
- Cooling water recirculation (100,000 m<sup>3</sup>/year water savings).
- Internal street lightning lamps replacement with programmable LED (92.000 kWh/year savings).
- Relocation of the main compressed air station (520 m close to main consumer, 285.000 kWh/year electricity savings).
- Autonomous heating/cooling system with heat pump for object 40 (Zero CO<sub>2</sub> emission).
- Economisers for preheating of steam boilers feed water (55.000 m<sup>3</sup>/year natural gas savings).
- Total consumption of electricity is from renewable sources.

In addition, there has been a greater focus on sustainability awareness which includes training in relation responsible energy consumption for all employees, and the establishment of the Sustainability Champions working group. Representatives across all functions were appointed and given the task of collecting information, providing proposals and reporting issues in relation to the use of energy. The representatives enter data into a central database and the results are presented at the group's weekly meetings, including the impact of corrective actions. The Sustainability Champions present the results to their respective departments with an emphasis on the lesson learned principle.

Future reduction plans for the next financial year include:

- geothermal resources project (predictable 9.7 MWh/year, 50% natural gas savings);
- ground mounted 2 MW solar power plant (additional 30% of site electricity needs);
- automated plant for pharma PW production (12,000 m<sup>3</sup>/year potable water savings);
- autonomous heating/cooling system with heat pump for administrative offices (Zero CO<sub>2</sub> emission); and
- optimisation of HVAC systems operations (50.000kWh/year electricity savings).

