

STRATEGY OF ENERGY CONSUMPTION REDUCTION AND CARBON FOOTPRINT REDUCTION



At Centro-chem, we prioritize environmental protection issues.

We aim to reduce energy consumption and carbon footprint by implementing a series of actions and investments in renewable energy sources.

The purpose of this document is to present the initiatives implemented in 2023 and planned for the coming years in this regard.

With regards,

Olga Krzyżanowska,

Proxy of Centro-chem



Implemented Investments

OFFICE-WAREHOUSE COMPLEX IN TURKA:



Photovoltaic Installation:

In January 2023, we launched a 50 kWp photovoltaic installation, which produced a total of 47,550 kWh of energy. Out of this amount, we used 28,276 kWh for our own needs, which constitutes 59% self-consumption over the year.



Reduction of Grid Energy Consumption:

The total energy demand from the grid was 94,608 kWh. Thanks to the energy production from photovoltaic panels, we reduced grid energy consumption by 29%. The implemented actions led to a 30% reduction in energy costs.

WAREHOUSE IN GDAŃSK:



Photovoltaic Installation:

In March 2023, we launched a 30 kWp photovoltaic installation, which produced 27,239 kWh of energy by the end of the year. We utilized 8,060 kWh for our own needs, resulting in 29% self-consumption.



Reduction of Grid Energy Consumption:

The total energy consumption in 2023 was 17,400 kWh, indicating a 30% reduction in grid energy consumption due to the PV installation.



Planned Investments

The planned actions aim to further reduce energy consumption by 30%, leading to a 60% reduction in the use of non-renewable energy sources by 2025 compared to 2022.





Construction of a New Warehouse:

Commissioning of a new 500 m² warehouse heated by an air-to-water heat pump, with a mechanical ventilation system with heat recovery.



PV Installation on the New Warehouse:

Installation of photovoltaic panels on the new warehouse will balance the electricity demand for heating and lighting of the halls and surrounding areas.



Change in Water Heating Method:

On the existing warehouse in Gdańsk, we will switch to electric water heating during the spring-autumn period to increase self-consumption from PV installations and completely eliminate gas water heating during this time.



Forklift Fleet Replacement:

Replacing gas-powered forklifts with electric ones.



Construction of a New Office Building:

The new office building will have a lower primary energy consumption index (E_p) due to the use of energy-efficient installations and a high level of building thermal insulation and air tightness.



Further Fleet Modernization:

Systematic replacement of heavy-duty vehicle fleets meeting the highest emission standards (EURO 6) and acquisition of electric passenger cars.

Implementation of the presented strategy will significantly reduce energy consumption and decrease our organization's carbon footprint.

Regular monitoring of progress and adjusting the strategy to changing conditions will be crucial for achieving our environmental goals.