## **HOW TO SAVE** 5 MLN A YEAR





**Schumacher Packaging** 

Case study

We help medium and large industrial companies become part of a zero-emission future. We want to co-create factories that we could have right outside our backyard. We advise, design, implement and finance energy efficiency activities. This is decarbonization that pays off.

industrial projects

We conducted a mandatory energy audit at the Schumacher Packaging plant, and then identified and implemented an investment that reduced emissions by 24,000 tons of CO<sub>2</sub> per year. This amount of carbon dioxide is emitted by one million Poles every day.

Schumacher Packaging is a global manufacturer of various types of paper packaging. With 29 branches, the company is one of the largest producers of solid and corrugated cardboard products in Europe.



**Our work with Schumacher Packaging** began with...

## EED Aud



The client performed a mandatory energy audit of the company. We showed him actions that could contribute to achieving high energy savings in the plant and he decided to implement the investment with DB Energy.



THE COMPANY'S ENERGY AUDIT, WHICH IS MANDATORY FOR LARGE ENTERPRISES



The total investment cost was

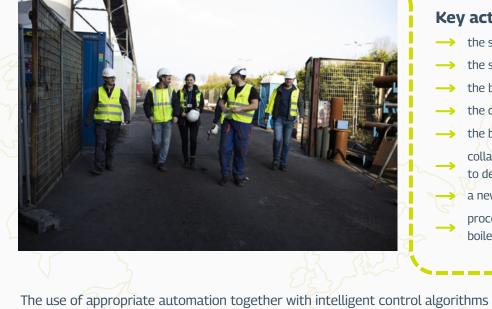
### **Initial expertise**

DB Energy engineers noticed the very low initial efficiency of the boilers, which was only 65%. They also noticed numerous operational problems with their infrastructure and the lack of automatic regulation of operating parameters.

## **EUR 10.5 mln** We have acquired White Certificates for Schumacher

Packaging, with a total value of

EUR 2.7 mln



**Key activities:** 

- the steam drum was repaired, the supporting structure was replaced,
- the boiler pressure part was replaced, the complete grating was replaced,
- the boiler brickwork and its insulation were replaced,
- to dedust, desulphurise and denitrogenise flue gases, a new electric installation was put in place,

collateral installations were implemented: the installation

processes were automatised which provided for the boiler's maintenance-free work.

changes in steam demand by reducing blow-offs. The primary boiler automation is also responsible for controlling steam production in such a way that the boilers cooperate to achieve maximum

allows predicting the boiler load. It makes the system more resistant to sudden

possible use of the system for energy production within the existing backpressure turbine with a power of 7.5 MWel.

efficiency of the combustion process and is responsible for ensuring the best





#### Thanks to the introduction of comprehensive modernization, we succeeded increase boiler efficiency by

**Project effects** 

20%. We reduced the plant's demand for energy in fuel by 72 GWh - that's about 300 wagons of coal! Thanks to inference o White Certificates before the commencement of work, the Client also obtained the opportunity to obtain energy efficiency certificates worth approximately EUR 2.7 million.

EUR 4.8 mln

## The investment payback period is approximately 1,5 years

We have reduced annual CO<sub>2</sub> emissions by 24 thousand tons

24,000 tCO<sub>2</sub> is as much as ONE MILLION POL



# emit every day

# Decarbonization

that pays off

DB **ENERGY** 

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