HOW TO SAVE 20 MILLION?

Case study Schumacher Packaging





→ We are a leader in energy efficiency

- We specialize in guiding medium and large industrial companies toward a zero-emission future
- We provide innovative design solutions, financing options, and executing investments for our Clients all over the world.



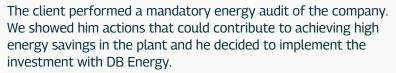
We conducted a mandatory energy audit at the Schumacher Packaging plant, and then identified and implemented an investment that reduced emissions by 24,000 tons of CO₂ per year. This amount of carbon dioxide is emitted by one million Poles every day.

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 Audit 🞉



CLICK TO LEARN MORE ABOUT THE COMPANY'S ENERGY AUDIT, WHICH IS MANDATORY FOR LARGE ENTERPRISES



5 Zł

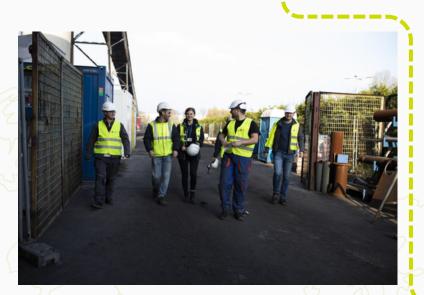
Initial expertise

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.



The total investment cost was

We have acquired White Certificates for Schumacher Packaging, with a total value of



Key activities:

the steam drum was repaired,

n 11

- the supporting structure was replaced,
- → the boiler pressure part was replaced,
- the complete grating was replaced,
- the boiler brickwork and its insulation were replaced,
 - collateral installations were implemented: the installation to dedust, desulphurise and denitrogenise flue gases,
 - a new electric installation was put in place,
 - processes were automatised which provided for the boiler's maintenance-free work.

The use of appropriate automation together with intelligent control algorithms allows predicting the boiler load. It makes the system more resistant to sudden 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 efficiency of the combustion process and is responsible for ensuring the best possible use of the system for energy production within the existing backpressure turbine with a power of 7.5 MWel.



CLICK TO WATCH A VIDEO ABOUT THE IMPLEMENTATION AT THE SCHUMACHER PACKAGING PLANT

We have achieved the thermal efficiency of boilers at the level of



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

