BOOSTING OUTPUT, CUTTING CARBON

DB ENERGY
Zero-emission industry

Case study of a client from the chemical industry

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.

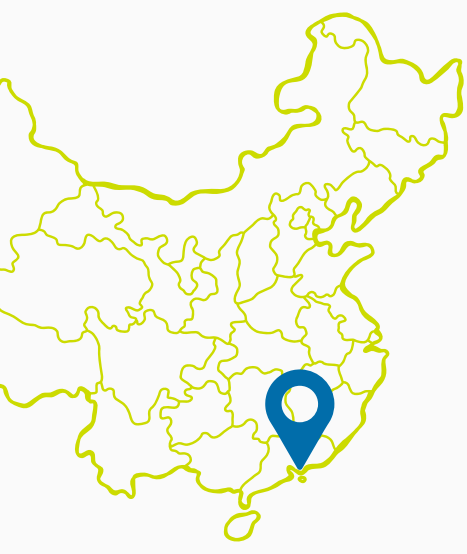
1 445
industrial projects

The Client's team at the Jiangmen plant had prepared a zero-emission strategy with an auditing company, which did not meet its expectations. The Client approached us with a request, and our engineering team developed a specific path to reduce emissions by 70% in 4 months. The plant has already started implementing the recommended actions, which has, among other things, reduced steam consumption by 50%.

EUR 1.3 bn
value of completed projects

9.8 TWh
total reduction in energy consumption

EUR 512 mln
annual savings of our customers



The Client Company is part of a global chemical industry group. With 45 production plants, the company is a leader in recycling batteries and critical raw materials. The Jiangmen plant is located in southern China.

The client's goal was to reduce the consumption of thermal energy contained in steam and condensate and to reduce greenhouse gas emissions to minimum.

We developed a CO_2 reduction map that met the Client's strategic goals. The plant was preparing for a planned doubling of production in 2024-25. The path we prepared allowed for an increase in production capacity while reducing emissions and energy consumption.

Click here to take a step towards making your company truly zero-emission

EUR 487 mln
Annual savings generated by all designed investments

The engineering team's expertise identified a number of places where energy losses occurred and which would cover the heat demand in the main process. The key activities at the plant were heat recovery from air compressors and heat recovery from wastewater.

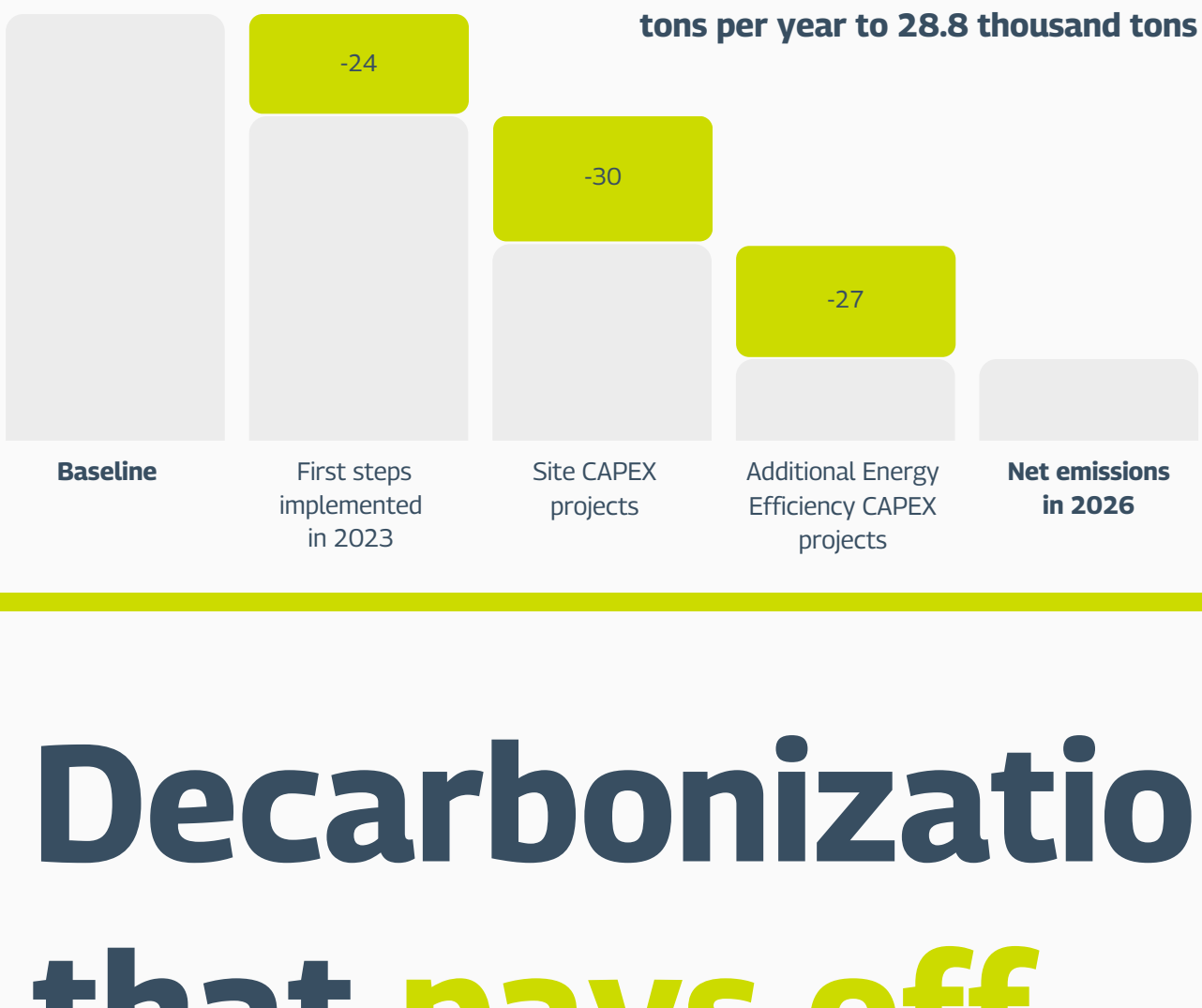
May 2023
Step 1.
Walk-Through Audit

July 2023
Step 2.
Pinch analysis & energy management system review

September 2023
Step 3.
CAPEX roadmap design for selected scenario

Goal:
GHG reduction by 70% by 2026

In the Chinese plant, thanks to the implementation of the path we designed, it was possible to reduce steam consumption by almost 50% - from 58.8 thousand tons per year to 28.8 thousand tons per year.



Decarbonization, that pays off

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