



PASTA MANUFACTURER OFFSETS BOILER-HEATING WITH HEAT PUMPS AND REDUCES HEATING COSTS BY 68%.



THE CHALLENGE

A pasta manufacturer approached ICS Cool Energy hire team looking for a temporary cooling capacity to cover the additional summer load in their plant.

During the site visit and system analysis, the ICS Cool Energy team learnt about the customer's overall cooling and heating demands. Familiar with the manufacturer's efforts to improve the energy efficiency of their operations, the team proposed a new heat pump solution that would not only deliver the additional cooling capacity the customer was looking for, but also completely replace the plant's 300kW fossil-fuelled boiler heating system – generating significant energy savings in return.



THE RESULT

During the four months of rental operations, the calculations showed that thanks to shutting down the gas boiler, and replacing it with heat pumps, the cost of generating heat dropped by approximately 68% from 7.4k GBP to 2.3k GBP, contributing also to lowering the carbon footprint of the plant and more sustainable operations.

THE SOLUTION

Following a detailed analysis of the heat requirements, the team installed two i-FH (Industrial Free Heating) heat pumps, connecting them with the plant's existing chillers, which allowed to harness the waste heat that typically gets lost to atmosphere during cooling process. The new renewable energy heating set up offered the manufacturer new opportunities to lower their energy consumption and associated costs.



At ICS Cool Energy, we take pride in working hand in hand with our customers, listening closely to their needs and keeping their industries running. The option of hiring the latest heat pump technology gives our customers complete flexibility for time-specific heating solutions.

Dave Palmer, General Manager



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