

INDUSTRIAL COOLING :

LEADING PAINTS MANUFACTURER CUTS DOWN CO2 EMISSION BY 72%

GRUNDFOS iSOLUTIONS



THE SITUATION

Increasing levels of urbanization is projecting acrylic paint market to grow to USD 199.88 Billion by 2024, at a CAGR of 5.4%. The usage of enamel and emulsion paints over traditional whitewash, increasing penetration in the rural market and decorative paints are major drivers in the paint industry.

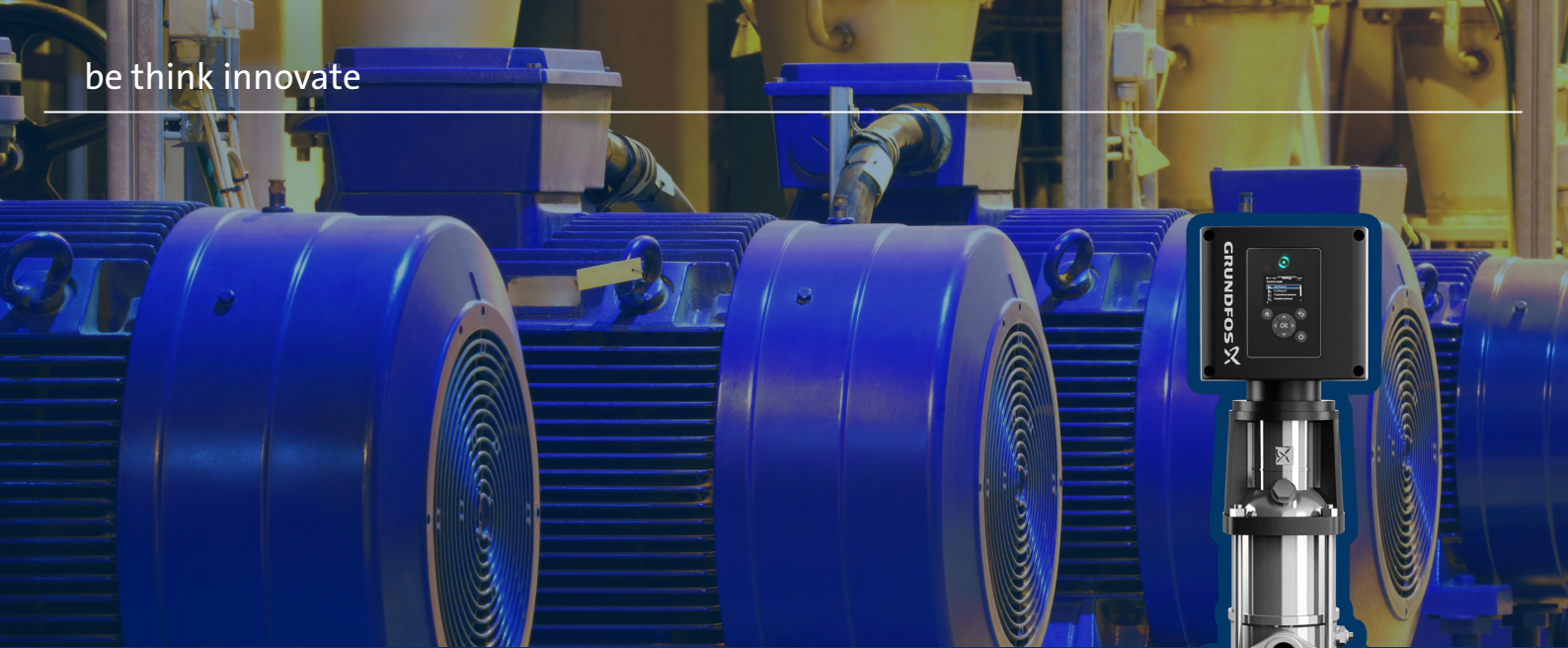
Industrial processes generate large amounts of heat. It is necessary to control this temperature for efficient process. Pumps are used to circulate cooling water through these processes to take away the heat and dissipate it through cooling towers to atmosphere

In this plant, cooling towers were operated manually with 2 pumps at fixed speeds, even in dynamic loading conditions. And the same were consuming an overwhelming 31.1 kW/hour. Grundfos conducted a detailed energy audit and found that the performance of the system could be enhanced.

EASY
OPERATION

FULL
CONTROL

MAXIMISED
RELIABILITY



THE SOLUTION

Existing end suction pumps at site were replaced with efficient Grundfos CRE pumps. These newly installed Grundfos CRE pumps reduced energy consumption from 31.1kw/hr to 18.0 kw/hr through its efficient permanent magnet motors with IE5 level of efficiency.

THE OUTCOME

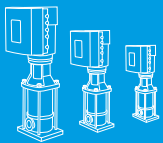
“Grundfos CRE pumps with its intelligent features have a great advantage of adaptability to dynamic load conditions. Thanks to Grundfos pump audit, new improved system with CRE pumps could bring energy consumption down by 42% and reduce CO2 emissions by 72%. An in addition by using auto cascading feature of CRE pumps, customer could eliminate the need for external control panel.”

BENEFITS OF GRUNDFOS CRE PUMPS



EASY OPERATION

Grundfos CRE pumps in combination with intelligent built-in controls have significantly improved the existing cooling tower's pump system moving from an unbalanced system to a reliable and optimal system.



FULL CONTROL

With Grundfos CRE pumps, the new system adapts its performance according to the field signal. The complete system has a variable flow, which enables maximum savings and improved uptime.



MAXIMISED RELIABILITY

Applying Grundfos expertise in pump audits, customer's system energy performance is improved to ensure maximum savings and reliability.