

INDUSTRIAL COOLING:

COOLING TOWERS REDEFINED

GRUNDFOS iSOLUTIONS



DISCOVER HOW GRUNDFOS PUMPS WITH INTELLIGENT CONTROLS SIGNIFICANTLY IMPROVED COOLING TOWER EFFICIENCY FOR A GLOBAL CHEMICAL COMPANY

For a global manufacturer of adhesives, resins, gelcoats and special polymers, Grundfos intelligent pumps and our pump application software are key components in the company's cooling systems, together with our expert insights, collaboration and co-creation.

22%

OPEX SAVINGS

128.26T

LESS CO₂ A YEAR

1.8 YEARS

PAY-BACK TIME



EXISTING SYSTEM

3x Fixed speed pump
Regulating valve operation

NEW SYSTEM

NBE pump range
RPI+T
Grundfos MPC-E control panel
Temperature sensor
Differential temperature function

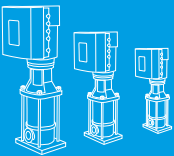
SOLUTION & OUTCOME

Grundfos has redefined the control capabilities of the customer's cooling tower. Cooling system operations are now stable and controlled by differential temperature. This has resulted in significant OPEX reductions of 22%.



EASY OPERATION

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



FULL CONTROL

With Grundfos iSOLUTIONS, the new system adapts the speed according to the return temperature measured by the sensor. The complete system has a variable flow, which enables maximum savings and improved uptime.



MAXIMISED RELIABILITY

Applying pump audits and continuous improvement techniques, Grundfos revised the system design to raise the quality of the final package well beyond the originally specified requirements.