

Increasing cooling system efficiency in a petrochemical plant

Achieving substantial cooling capacity improvements and energy savings



Return of Investment

ROI within maximum 6 months



Improved process safety

Monitoring critical water side heat exchanger parameters



Yearly savings

Estimated to be around EUR 200,000 on just one of eight systems

Challenge

Cooling systems consume a significant amount of energy when pumping water to heat exchangers and when operating fans in the cooling towers. As a result, the efficiency of the cooling system has a big impact on the productivity of some industrial plants.

To find ways to improve their cooling system capacity and energy efficiency, a major refining and petrochemical production plant approached DHI for a solution.

Solution highlights

Implementation of DHI's Industrial Cooling Water Solution provided the client opportunities to:

- improve cooling capacity by optimising water flows
- reduce heat exchanger fouling by applying advanced model-based monitoring routines
- save energy by optimising pressures, temperatures and water flows



'Results of the study revealed a potential which surpassed our initial expectations. As a result of our new approach to optimising cooling system efficiency, industrial operators can expect significant gains for their plant.'

Jan Krejčík,
Sales Executive
DHI Group



Contact: mike@dhigroup.com



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