



# ADIABATIC COOLING SAVES WATER FOR AUTOMOTIVE MANUFACTURER



## The Challenge

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One of the world's leading automotive brands with a UK production facility has complex temperature control demands – with water usage and the associated equipment identified as areas for significant savings. ICS Cool Energy's replacement of cooling towers for an adiabatic system has saved money, increased efficiency and protects against the risk of legionella.

ICS Cool Energy:

"This is a system that saves water and increases efficiencies, providing a sustainable means of boosting a company's green credentials."

## WE MAKE IT WORK

### The Solution

An adiabatic cooling system is the sustainable alternative to cooling towers. With the plant's existing cooling tower units producing between 4-5mW each, despite the site only requiring 2mW, it was clear the operating needed a review.

ICS Cool Energy designed a new system that delivers substantial savings, replacing all but one of the cooling towers with an adiabatic system which has a non ferrous water circuit feeding into the company's 100,000 litre sump tank. The water is then supplied directly to cool the condensers within the compressed air dryers.

The remaining cooling tower was cleaned and isolated from the circuit to provide a back-up.



### The Result

ICS Cool Energy said: "With potential reductions in energy costs of up to 70%, the new cooling system promises to benefit this customer's business in the face of future environmental pressures and ever-increasing overheads. It's the perfect example of how new technologies help businesses deliver their ethical promises and it makes good business sense too."

ICS Cool Energy also provides planned preventative maintenance through a comprehensive three year plan, ensuring the equipment is regularly inspected, tested and maintained by one of our expert engineers, providing peace of mind for production managers in the knowledge that the equipment is looked after.



Date code: 12/16

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