CASE STUDY

EDF Building at Le Defence, Paris (France)

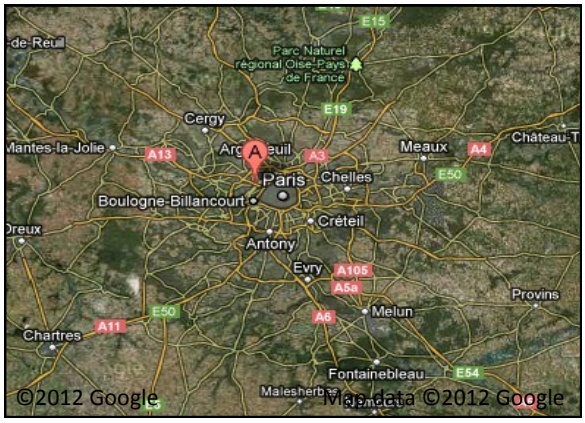
Client: EDF

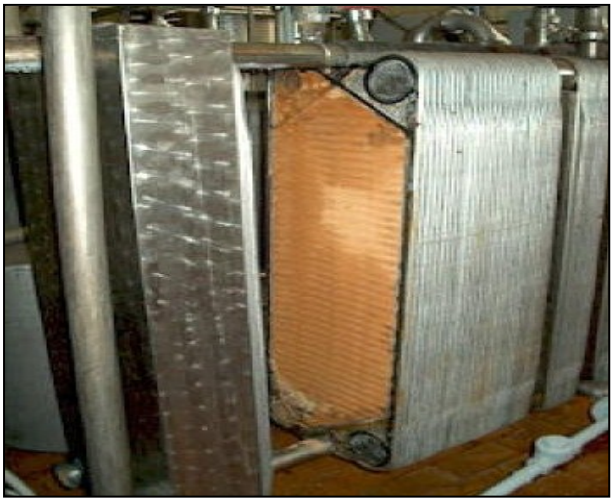
Location: Paris, France

Product: BoreSaver Ultra C

Project Description: Heat Exchangers servicing the EDF building at Le Defence were clogged with iron oxide residues, affecting the water flow rate and pump efficiency

Keywords: BoreSaver Ultra C, heat exchangers, extraction wells, iron oxide residues, geothermal heating





Heat Exchangers servicing the EDF Building at Le Defence were found to be clogged with iron oxide residues, affecting the water flow rate and pump efficiency. The system comprises two injection wells, 300mm in diameter and 26m in depth, with two similar extraction wells, filtration and heat exchangers.

Iron oxide deposits had mostly formed on the water transfer surfaces. This resulted in flow-restricted zones within the system, reduced heat transfer causing degradation of plant thermal performance and flow blockages resulting in significantly reduced pressure.

"After treating the system, the M&E contractor reported increased flow, pressure and performance."

The first step was to clean the extraction wells, the water source, Then, the entire system through to the injection wells was treated. BoreSaver Ultra C was mixed with water and then pumped through the pipes and heat exchanger. This dissolved the iron oxide deposits allowing them to be safely pumped away to waste. The post treatment camera survey demonstrated that all iron oxide deposits had been removed. After treating the system, the M&E contractor reported increased flow, pressure and performance.

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