

GE Provides Mobile Water Scarcity Solution for POSCO Pohang Iron and Steel in Korea

Challenge

The mill experienced a forced curtailment of fresh water during an extended drought period. Left without ample water for cooling, steam production, and clean and rinse operations, the plant faced a reduction in production capacity.

Solution

GE helped by providing a temporary mobile treatment system that allowed the mill to convert and reuse some of its plant wastewater for critical production requirements. The system consisted of MobileFlow* filtration trailers for removal of suspended solids, MobileRO* reverse osmosis to remove dissolved solids, and a force draft aerator to remove corrosive gases. The system reduced the total dissolved solids and hardness in the wastewater from over 3,000 and 1,400 ppm, to less than 800 ppm and 100 ppm, respectively.

Results

Over a three-month operating period, the GE system reclaimed 88 million gallons (332,000 m³) of wastewater for use in mill processes, allowing the mill to continue full production throughout the curtailment period.



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