

PROJECT DETAILS

Customer: Abengoa Solar Plant (Castile - La Mancha Solar Platform)

Location: Ciudad Real, Spain

Year: 2012

Sector: Energy

Division: Industrial wastewater / Waste recovery



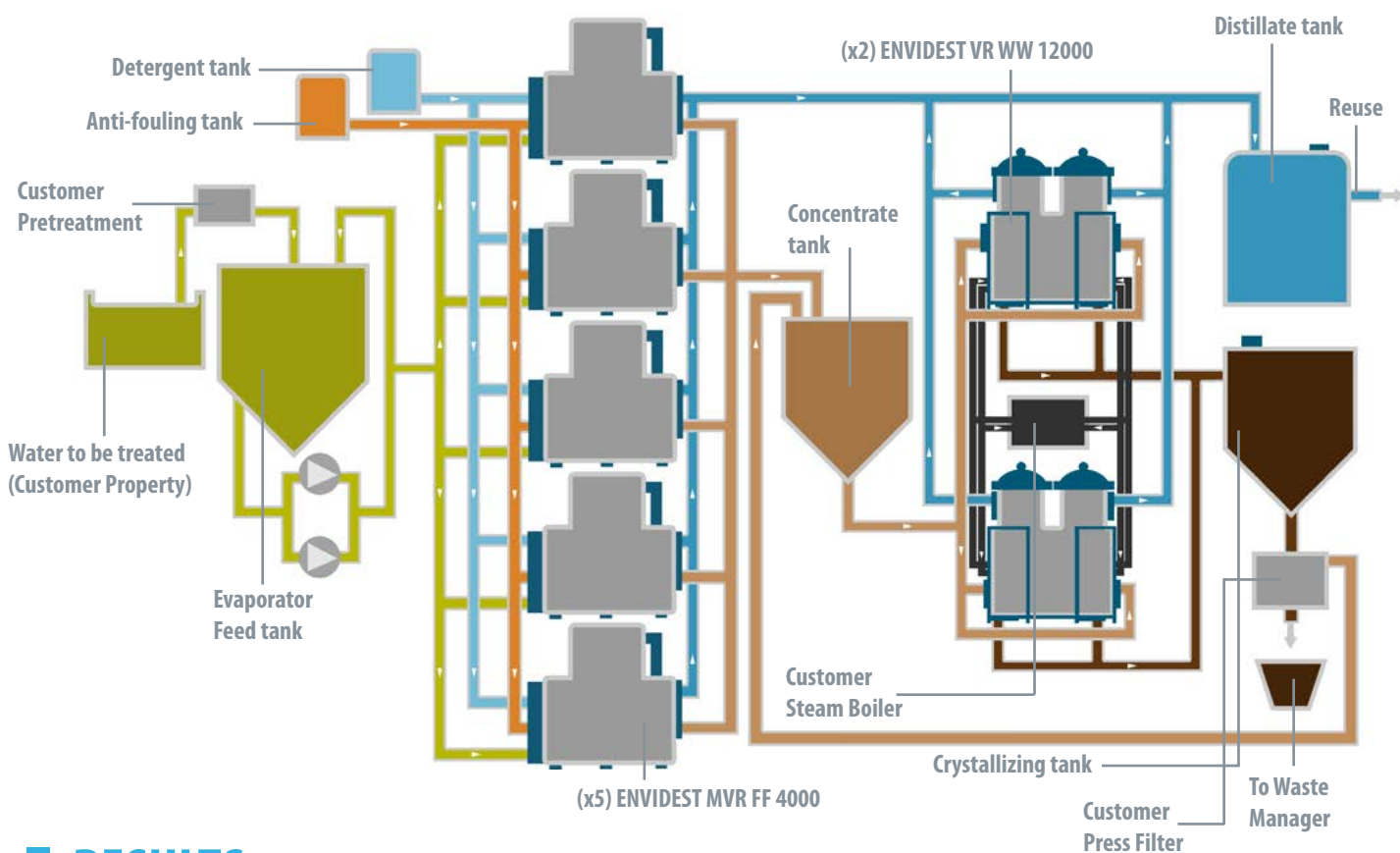
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PROJECT DESCRIPTION

The Castile-La Mancha Solar Platform consists of two 50MW solar thermal plants each with parabolic trough technology. The two plants, Helios 1 and Helios 2 came into operation in the summer of 2012.

Request: Single WWTP, by evaporation and vacuum crystallization, to treat 20 m³/h of wastewater from the two Helios 1 + Helios 2 WTPs (demineralizer and reverse osmosis reject solutions), obtaining a minimum of 70% to be reused.

Solution: 5 ENVIDEST MVR FF-4,000 vacuum evaporators + 2 DESALT VRWW 12,000 vacuum crystallizers + peripherals.



RESULTS

- Zero discharge is achieved with recovery of up to 95% distilled water for reuse in the WTP.
- The emission of 31,400 tons of CO₂ per year is avoided.

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