

# PROJECT DETAILS

**Customer:** Rioglass Solar - Rioglass I factory

**Location:** Lena, Asturias, Spain

**Year:** 2007

**Sector:** Glass, Ceramics, Cement and other materials

**Division:** Industrial wastewater / Air



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## PROJECT DESCRIPTION

Rioglass Solar is a multinational company in the solar energy field, specializing in the manufacture of key optical components for concentrated solar power (CSP) and concentrated photovoltaic (CPV) applications. Rioglass Solar is a world leader in CSP technologies. With 6 million mirrors supplied worldwide and 20 years of experience in supplying receiver tubes, Rioglass Solar is the largest supplier of CSP (HCE) tubes and tempered glass mirrors in the world.

Other projects for RIOGLASS:

- Water and wastewater treatment for RIOGLASS II (Asturias, Spain) - 2009.

- Water and wastewater treatment for RIOGLASS USA - 2014.



**Request:** Water treatment: Production plant of 6 m<sup>3</sup>/h of ultrapure water with quality (<1 μS/cm) for processing.

Effluent treatment: Wastewater treatment plant to discharge 6 m<sup>3</sup>/h of wastewater from the mirror manufacturing process.

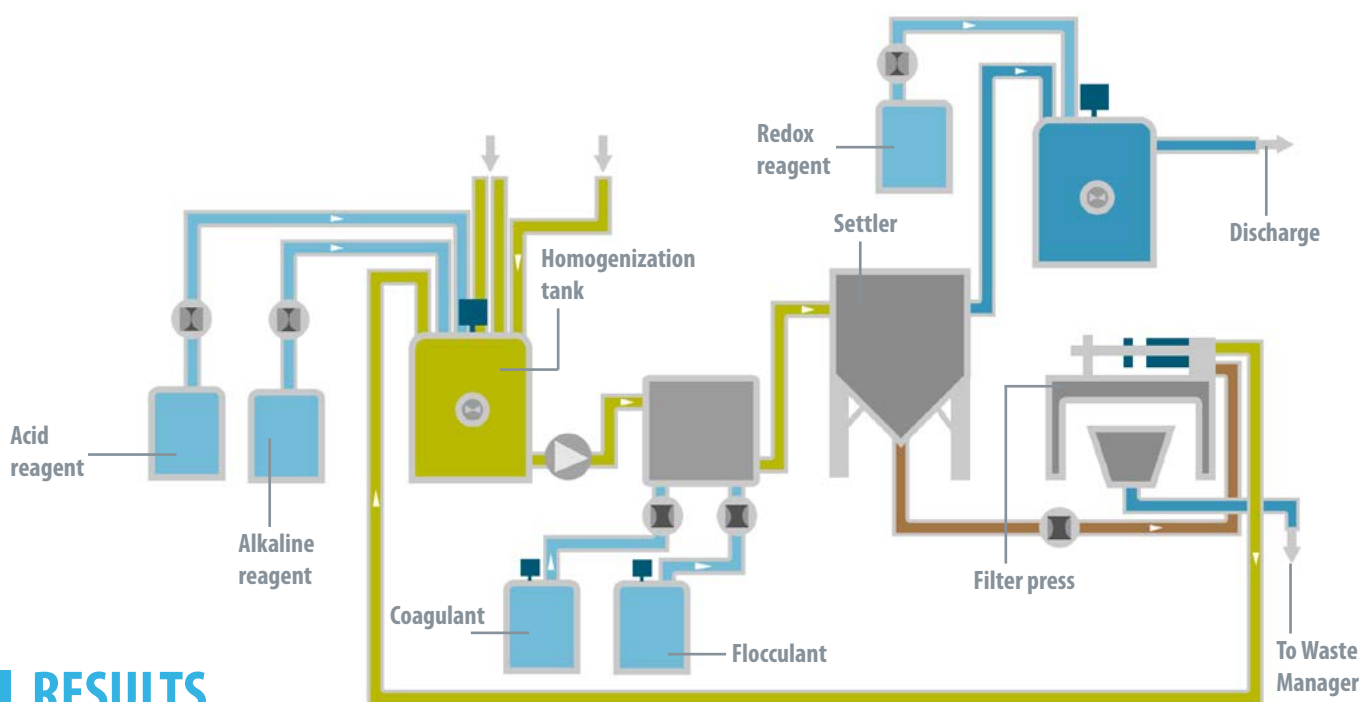
Air treatment: Treatment plant for 10,000 Nm<sup>3</sup>/h of VOC contaminated emissions + treatment plant for 1,000 Nm<sup>3</sup>/h of air with ammonia from the mirror line; so that emissions are acceptable for venting to the atmosphere.

**Solution:** Complete water treatment plant using AQO-6000 (double stage) Reverse Osmosis + descaler + mixed bed resins + peripherals.

Complete plant for the purification of wastewater by the CONDORDEPUR-6000 physicochemical system + peripherals.

Air purification plant with COV abatement by RTO-3, regenerative thermal oxidizer, 3 chambers.

Air cleaning plant with NH<sub>3</sub> abatement by scrubber or washing tower.



## RESULTS

- Production of ultrapure water below 1 μS/cm for process line.
- Waste effluents discharged to the collector to be within the limits required.
- Treatment and abatement of COVs and NH<sub>3</sub> to below the legally required limit.

# CONTACT INFORMATION

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