







Wastewater Reuse Treatment Project of Rizhao Steel Boutique Base of SD Steel

	Location	Rizhao, Shangdong, China
	Raw water	Comprehensive wastewater
	Commissioning Date	September, 2019
	Design Capacity	30,000 m ³ /d
	Module No.	SMT600-P50

Process

Comprehensive wastewater

-  Efficient clarifier
-  V-type Filter
-  UF
-  First stage RO
-  Second stage RO
-  EDI

Project Highlights

The project is the first in the world to use UF-RO-EDI to treat wastewater from more than 20 different production processes in steel mills producing 8 million tons of steel a year, including concentrated brine from cold rolling and coking processes. Through the application of a series of innovative technologies, a new model of treating industrial wastewater as a water supply was created. The successful operation not only prevented water pollution, but also greatly reduced the steel plant's demand for fresh water resources. The project has played a demonstrable role in sewage treatment and reuse, water resource protection, zero-discharge engineering construction and operation management for steel enterprises and similar industrial enterprises in the world and has significant promotional value.

