

Sulzer brings water to the Sahara desert

The Algerian Ministry of Water Resources took up a project to create a reliable supply of water to the city and area of Tamanrasset in the Sahara Desert. This water supply is important to the region as the 740 km (660 miles) pipeline and six pump stations are expected to encourage development of an urban city with agricultural perimeters. The water will come from aquifers near the city of In Salah and will be transported through a pipeline with a capacity of 100'000 m³ per day.



The challenge

The Algerian Government awarded the contract for the execution of the project to a Chinese contracting company, which approached one of Sulzer's customers to tender the entire order for pumping units. With only limited experience in water pipelines, the Finland-based engine manufacturer contacted Sulzer for tendering support. Based on the successful execution of joint projects for oil pipelines in the past, our Finnish customer was confident we could work together to meet the challenges of the Sahara project.

The solution

For each of the six pump stations, Sulzer proposed three axially split HPDM pumps – two in constant operation and one in stand-by – a supply of 18 pumps in total. Sulzer has the experience and know-how to deliver a reliable and competitive solution. Led by engineers from the Sulzer Water & Wastewater segment based in Winterthur, we worked with the customer from the beginning to develop technically optimal solutions, and worked closely with our manufacturing site in Brazil to coordinate production timing and delivery. 3D design has been used throughout the project to enable better arrangement of all accessories on the skid. Such full and fast support helped to win and fulfill the project.

Customer benefits

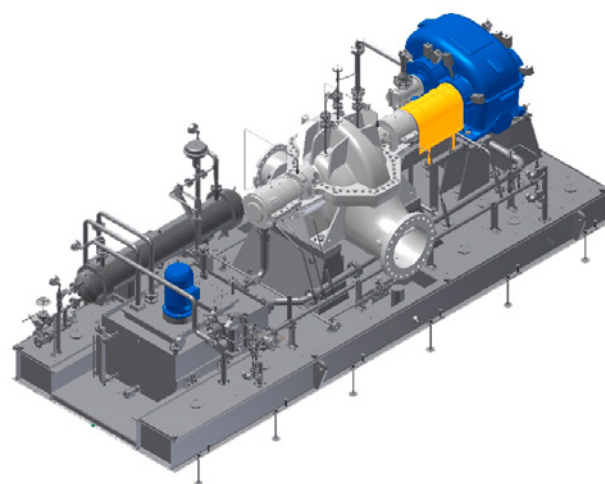
Our customer received intensive engineering and tendering support from the beginning of the project. The end-user received the best hydraulic fit for the requirements, with efficient, cost-effective solutions that are easy to operate and maintain for reliable water pipeline operations.

Product data

Product type	HPDM 350-850-1d/13
Capacities	2'088 m ³ /h (9'187 USgpm)
Heads	329 m (1'079 ft.)



HPDM pump in final inspection before shipment



The complete package design has been performed in 3D

For more information please visit

[sulzer.com](https://www.sulzer.com)

A10016 en 11.2025, Copyright © Sulzer Ltd 2025

This case study is a general product presentation. It does not provide a warranty or guarantee of any kind. Please contact us for a description of the warranties and guarantees offered with our products. Directions for use and safety will be given separately. All information herein is subject to change without notice.