

## Sur desalination project – marine works, Sultanate of Oman

Seawater as a source of drinking water for the people of Oman's Sharqiyah region: the desalination plant in Sur provides the region's 350,000 residents with 80,000 cubic metres of fresh water each day. Most of the seawater is drawn from some 20 wells sunk along the coast with additional water taken directly from the sea. This complementary supply method improves flexibility in terms of the flow of water produced and increases plant safety, especially in summer when algae proliferate.

BAM International's contribution to the desalination plant was to provide the seawater intake and outfall pipelines.



**Location** Sur, Sharqiyah region, Oman

**Client** OTV SA (Veolia Water Solutions & Systems)

**Contractor** BAM International bv

**Contract period** June 2007 – October 2008

**Contract sum** € 12 million

*'The project will supply drinking water to 350,000 people in the area'*

### Securing water supply

In this exposed part of Oman's coastline, the design of the pipeline required an offshore trench (5 metres wide and 2.5 metres deep) with pipe ballast and pipe protection.

Explosives were used to create the offshore and onshore trenches. A jack-up barge and drilling tower drilled the offshore blast holes, which extended some 3 metres below the final trench depth and were charged by a team of expert divers.



Onshore blasting



Jack-up barge with drilling tower

Double pipe launch



Over a length of 700 metres, the two pipelines were launched and sunken in two phases, the first 500 metres in one dual launch. The pipes were placed on a gravel bed and covered with 16-ton pre-cast concrete slabs and rock backfill.

Seawater intake under construction



### BAM International bv

P.O. Box 414  
H.J. Nederhorststraat 1  
2800 AK Gouda  
The Netherlands  
T +31 (0)182 59 06 30  
F +31 (0)182 59 08 70  
E [info@baminternational.nl](mailto:info@baminternational.nl)  
I [www.baminternational.nl](http://www.baminternational.nl)