

## South Arne (135,000 BWPD)

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Process:	<b>Sulphate Removal</b>
Client:	<b>Amerada Hess</b>
Country:	<b>Denmark</b>
Contract Description:	<b>Turnkey supply of membrane plant for sulphate removal</b>
Contract Date:	<b>2000</b>
Contract Completion Date:	<b>2001 (Operating since 2001)</b>
Capacity:	<b>3 x 40,000 barrels/day (Upgraded to combined capacity of 135,000 BPD)</b>
Sea Water Conversion:	<b>75%</b>
Sea Water Feed Quality:	<b>35,000 mg/l (tds)</b>
Fresh Water Output Quality:	<b>≤ 40 mg/l sulphate</b>



### **Project Description:**

Turnkey supply and initial operation of the largest sulphate removal plant in the North Sea oil industry, and the first installation of this technology in the Danish Sector. Phase 1 of 40,000bpd was delivered in 17 weeks from receipt of order.

### **Process Description:**

Seawater is treated by a media filter package prior to the membrane arrays using Dow Filmtec SR90-400 membranes. Pumps, Valves and Zeron 100 Super Duplex piping were all provided by Weir Group companies.