

Hitachi Plant Technologies, Ltd.

Saudi Aramco awards eight compressors to Hitachi Plant Technologies

Tokyo, Japan, September 26, 2008 --- Hitachi Plant Technologies, Ltd. has won a contract to supply eight large centrifugal compressors for Saudi Aramco's Manifa Central Processing Facilities 900 MBCD. The award was made by Foster Wheeler on behalf of Saudi Aramco for the GOSP and gas treatment plant which will handle associated gasses from Manifa offshore oil field located in the Arabian Gulf. This order will bring the cumulative number of compressors supplied by our company to the Kingdom to 54 units.

The Manifa Project is the large offshore project undertaken by Saudi Aramco and aims at adding 900,000 b/d of Arabian Heavy crude to production by the end of 2011. This is part of Saudi Arabia's commitment to boost crude oil output and meet an ever increasing global demand. Construction of the facility began in February 2008, and Manifa Oil Field production is expected to increase significantly when the facility comes into service in the fourth quarter of 2011.

The compressor package, at the heart of the plant, consists of three sets of ATM compressors, three sets of HP compressors, and two sets of propane gas compressors (all motor driven). The gas, handled by the ATM compressors and HP gas compressors, is highly corrosive due to the presence of H₂S and CO₂. To cope with the severe environmental conditions, Hitachi Plant Technologies will employ special anticorrosion materials developed from past experience with CO₂ compressor for urea plants, together with advanced high flow coefficient 3D impellers.

Saudi Aramco, the Dhahran based oil and gas company, who became Hitachi Plant Technologies' customer only several years ago, has rapidly emerged as one of Hitachi Plant Technologies' most important clients in the Middle East. During this year, Hitachi Plant Technologies has supplied six compressors, including high-pressure gas re-injection(*1) compressors for Aramco's Shaybah GOSP-4 Project.

Hitachi Plant Technologies Ltd. continues to strengthen this relationship with Saudi Aramco through investing in new technologies with a view to supporting, and making a success of more and more projects in the Kingdom of Saudi Arabia.

(*1)Re-injection: The re-injection of natural gas into an underground reservoir, typically one already containing both natural gas and crude oil, to increase the pressure within the reservoir and thus induce the flow of crude oil or else sequester gas that cannot be exported. For this service, high pressure compressors are needed to retrieve the pressure.

■ Main specifications of compressors for Manifa Central Processing Facilities 900MBCD – Saudi Arabia

	ATM Compressor	HP Compressor	Propane Compressor
Weight Flow (Nm ³ /h)	59,756	104,953	46,878
Gas Handle	Associated Gas	Associated Gas	Propane Gas
Inlet Pressure (Mpa abs)	0.106	0.378	0.546
Discharge Pressure (Mpa abs)	0.549	3.342	2.032
Drive Rating (kW)	6,500	12,000	2,500
Rotating speed (rpm)	5,012	6,634	7,512

■ About Saudi Aramco

Saudi Aramco is a fully-integrated, global petroleum enterprise, and a world leader in exploration and producing, refining, distribution, shipping and marketing. The company manages proven reserves of 260 billion barrels of oil and manages the fourth-largest gas reserves in the world.

■ Photo: Same type of ATM compressors that we have been awarded to supply



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