

### Industry Sector Industry Solutions Division

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#### **Siemens to equip Jeddah sewage treatment plant with one of largest odor control systems in Saudi Arabia**

**Siemens Water Technologies will supply a nine-piece odor control system at the 250,000 m<sup>3</sup>/d North Jeddah Sewage Treatment Plant (STP) in the Kingdom of Saudi Arabia. As the STP is located next to the King Abdullah Aziz Airport in Jeddah, the Ministry of Water and Electricity requested that odor control equipment be installed. Valued at more than US\$2 million, the system will consist of three different technologies located at five areas throughout the plant. Once completed by year's end, this will be one of the largest odor control installations in all of Saudi Arabia.**

The Ministry selected Siemens for its odor control experience and number of installations in the Kingdom. Siemens is one of the few bidding companies that was able to provide a multitude of odor control solutions, including a combination of biological, chemical, and activated carbon. Siemens will also guarantee the overall system's efficiency.

Two two-stage bio-trickling filters will remove the bulk of hydrogen sulfide (H<sub>2</sub>S) in the aerated grit chambers and bio-phosphorus tanks, followed by a LO/PRO two-stage chemical scrubber to reduce overall odors. A three-stage chemical scrubber will remove 99.9% of H<sub>2</sub>S and other odors in the sludge thickener and tanks area. Three additional scrubbers will be installed in the sludge dewatering building to treat ammonia and amines, H<sub>2</sub>S, and organic sulfur compounds in three separate stages. A ZABOCS biofiltration unit installed in the return and excess sludge pumping station will remove H<sub>2</sub>S and various other odorous compounds. A single-stage packed tower chemical scrubber in the aeration tanks rounds out the system, treating a high volume of air and a range of odors and concentrations in a small footprint.

For this project, Siemens again teamed up with Riyadh-headquartered project manager Aziz.

Siemens Water Technologies has a number of odor control installations in the Kingdom of Saudi Arabia, including a chemical scrubber in Wady Al Dawasir; six carbon systems in Riyadh; seven biological systems and four carbon systems in Dhahran; and two biological systems in Taif.

Further information about solutions for water treatment is available at

<http://www.siemens.com/water>

A photo supplements this press release. Please see:

<http://www.industry.siemens.com/data/presse/pics/IIS200910843.jpg>



Multiple technologies allow Siemens to offer the most efficient odor control solution

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