

Industry Sector Industry Solutions Division

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Sinopec selects Siemens wet air oxidation technology for wastewater treatment at two new ethylene facilities

Siemens Water Technologies will provide Zimpro wet air oxidation technology to treat wastewater at Sinopec's Zhenhai and Tianjin ethylene plant projects in the Zhenhai District, Ningbo, Zhejiang Province, and in Tianjin, China. The systems will be used to treat sulfidic spent caustic wastewater streams generated in the production of ethylene. The energy-efficient wet air oxidation systems will destroy odorous sulfide pollutants and generate a biodegradable effluent that can be discharged to conventional biological wastewater treatment. The Zhenhai system will treat approximately 18.2 m³/hr of wastewater; the Tianjin system will treat 14.5 m³/hr.

Wet oxidation is the oxidation of soluble or suspended components in an aqueous environment using oxygen as the oxidizing agent. When air is used as the source of oxygen, the process is referred to as wet air oxidation (WAO). The process will oxidize odorous reduced sulfur species such as sulfides and mercaptides. The system will also break down complex organic contaminants, such as phenols, to either carbon dioxide and water, or biodegradable organics.

The two Sinopec projects are the sixth and seventh spent caustic WAO systems installed in China by Siemens Water Technologies.

Sinopec Tianjin Company (TPCC) is a petrochemical complex of oil refining, ethylene, chemical and chemical fiber production. It is located in the District of Tianjin and has 13 oil refining units, eight chemical production units and five chemical fiber units. Annual crude oil handling capability is about 18 million tons. Sinopec Zhenhai Refining & Chemical Company (ZRCC) is the largest base for crude oil processing, for imported crude oil processing and sour crude oil processing, an oil products export base as well as one of the major crude oil distribution bases in China.

Zimpro WAO systems are a component of the Siemens environmental portfolio. The environmental portfolio earned Siemens revenues of nearly EUR19 billion in fiscal 2008 – roughly a quarter of Siemens' total revenues.

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/IIS200910902.jpg>



Zimpro wet air oxidation system installed in China.

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Contact USA:

Karole Colangelo
Corporate Public Relations Manager
Siemens Water Technologies Corp.
2501 N. Barrington Road
Hoffman Estates, IL 60192
847-713-8458 phone
847-713-8469 fax
847-687-9630 cell
E-mail address karole.colangelo@siemens.com

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