

Industry Sector Industry Solutions Division

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PetroChina selects Siemens wet air oxidation technology for wastewater treatment at new ethylene facility

Siemens Water Technologies will provide Zimpro wet air oxidation technology to treat wastewater at PetroChina Company Limited's (PetroChina) Daqing ethylene plant projects in Heilongjiang Province, China. The system 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 Daqing system will treat approximately 22.7 m³/h of wastewater.

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.

PetroChina Company Limited is the largest oil and gas producer and distributor in China and one of the largest oil companies in the world. The company engages in a wide range of activities related to oil and natural gas, including: the exploration, development, production and marketing of crude oil and natural gas; the refining, transportation, storage and marketing of crude oil and oil products; the production and marketing of primary petrochemical products, derivative chemicals and other chemicals; the transportation of natural gas, crude oil and refined oil, and marketing of natural gas. China National Petroleum Corporation (CNPC) is the sole sponsor and controlling shareholder of PetroChina. www.petrochina.com.cn

The PetroChina project marks the eighth spent caustic WAO system installed in China by Siemens Water Technologies.

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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/IIS201005378.jpg>



Zimpro wet air oxidation system for spent caustic treatment.

Zimpro is a trademark of Siemens Water Technologies and its affiliates in some countries.

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