

Phone: +49 211 881-4449  
Fax: +49 211 881-774449  
Mobile: +49 151 40226502  
E-Mail: [thilo.sagermann@sms-group.com](mailto:thilo.sagermann@sms-group.com)  
Thilo Sagermann

**PRESS RELEASE**

Düsseldorf, March 16, 2015

Innovative dedusting concept from SMS group  
to reduce dust emissions in steelworks

**Shougang Qian'An to employ new fine dust extraction  
technology developed by SMS group**

Shougang Qian'An Iron and Steel Co., Ltd. has placed an order with the SMS group ([www.sms-group.com](http://www.sms-group.com)) to retrofit their steelworks with three hydro-hybrid filter systems. The steelworks is located in the city of Qian'An in the northeast of the Chinese Hebei Province. With this Ecoplants technology, Shougang will be able to significantly reduce their dust emissions. This order from China is also the first to include the installation of the newly developed SMS filter system.

Commissioning of the first unit is scheduled to take place before the end of this year.

The modernization of the primary dedusting systems of the three BOF converters will include the installation of hydro-hybrid filter systems and their integration into the exhaust duct downstream of the existing wet scrubbers. The scope of equipment to be supplied by SMS Siemag China covers the complete wet-type filter system (from inlet to outlet, including the steel structures), electrics and automation system as well as assembly. This concept minimizes the time required for the reconstruction work.

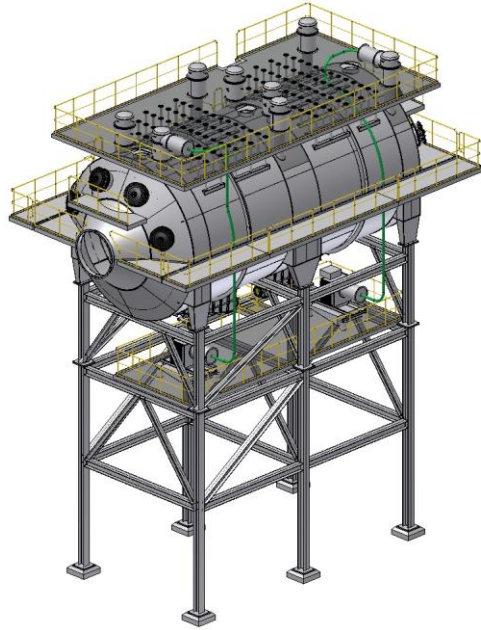
Thanks to the innovative solution of combining the existing wet scrubber and the electrostatic precipitators, clean gas dust contents down to 10 mg/Nm<sup>3</sup> can be achieved. While the main dust load will be separated in the existing wet scrubber, removal of the fine dust, which has not taken place in the past, will from now on be handled by the new unit. The separation of fine dust particles from the off-gas is based on the principle of electrostatic precipitation.

Compliance with what are probably the most stringent environmental standards in terms of clean-gas dust content will make Shougang a shining example for competitors all over the world.

According to the Ecoplants principle, this technology is not only a solution of how to cope with ecological challenges but will also provide an economic return. While reducing the pressure loss, the hydro-hybrid filter system provides the possibility of reducing electricity consumption by up to 45 percent.

The Ecoplants trademark characterizes SMS group technologies which offer the customers both ecological and economic benefits. In line with the SMS group's commitment to environmental responsibility, the Ecoplants technologies fulfill or even exceed current environmental regulations while providing cost-efficient sustainability. With the hydro-hybrid filter system, a further technology covered by this trademark has successfully taken the step from innovation to market maturity.

(44 lines of max. 65 characters per line)



With an innovative filter system, the SMS group sets new standards in China.

The SMS group is, under the roof of SMS Holding GmbH, a group of companies internationally active in plant construction and mechanical engineering for the steel and nonferrous metals industry. Its 13,800 employees generate sales of over EUR 3,5 bn.