

thyssenkrupp Uhde awarded with contract for low-emission coke oven battery in South Korea

- **Pad-up rebuild of existing battery including environmentally friendly EnviBAT® technology**
- **Modernization of the gas treatment plant through revamping of the tar separation unit and construction of a new MonoClaus® plant**

thyssenkrupp Uhde has been awarded a major contract by POSCO E&C to design and supply a new low-emission, top-charge coke oven battery for the POSCO Pohang Steelworks in South Korea. The new unit will replace the existing Battery #3A at the Pohang site. The design incorporates thyssenkrupp Uhde's proprietary EnviBAT® technology, ensuring significantly reduced emissions during the coking process. The contract also includes engineering and supply of a state-of-the-art MonoClaus® plant to replace the outdated two-stage Claus units, as well as a new emission-free tar separation plant to modernize the existing facility.

"With this state-of-the-art, low-emission facility, POSCO E&C and thyssenkrupp Uhde are making a meaningful contribution to enhancing the environmental performance of the POSCO Pohang Steelworks," says Michael Petzinna, Executive Director of the Coke Plant Operating Unit. "We are pleased to continue our long-standing partnership with POSCO and POSCO E&C, which dates back to the 1970s, and are proud to contribute our decades of plant engineering and process expertise to this project."

The project is part of POSCO's broader modernization program for its coke plants. As part of this initiative, the original Battery #3A from the 1980s will be shut down and replaced by new, low-emission, state-of-the-art systems. The order covers technology provision, engineering, equipment procurement, site supervision services, and commissioning support. POSCO E&C and thyssenkrupp Uhde are acting as reliable partners for this EP pad-up project, combining extensive plant engineering experience with highly efficient technologies designed to meet – and exceed – stringent environmental standards.

EnviBAT®: intelligent single-chamber pressure regulation for minimized emissions

thyssenkrupp Uhde's EnviBAT® single-chamber pressure regulation system is already successfully operating in more than 30 batteries and over 2,100 ovens worldwide. Continuous, intelligent pressure monitoring and adjustment throughout the coking cycle optimizes raw material use while drastically reducing emissions. By preventing pressure peaks at the initial stages of the coking process, EnviBAT® virtually eliminates emissions through oven doors and the battery roof. Additional emission-reducing design features – such as flexible, spring-loaded door systems and water-filled rising pipe covers – further enhance environmental performance.

About POSCO

POSCO is one of the world's largest steel producers. Founded in 1968 and headquartered in Pohang, South Korea, the company plays a vital role in global steel production and has contributed significantly to South Korea's industrial and economic development. Its steel products serve key sectors including construction, automobiles, and infrastructure.

About POSCO E&C

POSCO E&C, is a leading engineering and construction company and a subsidiary of POSCO Holdings. Renamed in 2023, the company's identity reflects a strong commitment to eco-friendly technologies and innovation. Its portfolio spans steel plants, power plants, infrastructure, residential buildings, green energy, smart cities, and sustainable construction solutions.

About thyssenkrupp Uhde

thyssenkrupp Uhde combines unique technological expertise and decades of global experience in the engineering, procurement, construction and service of chemical plants. We develop innovative processes and products for a more sustainable future and thus contribute to the long-term success of our customers in almost all areas of the chemical industry. Our portfolio includes leading technologies for the production of base chemicals, fertilizers and polymers as well as complete value-chains for green hydrogen and sustainable chemicals. www.thyssenkrupp-uhde.com

Contact

thyssenkrupp Uhde
Christian Dill
Press Spokesperson
Phone: +49 231 547 3334
E-mail: christian.dill@thyssenkrupp.com