

PRESS RELEASE

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Paul Wurth to design and supply Coke Oven Gas Injection Systems for ROGESA's Blast Furnaces



Blast Furnace Rogesa 5 at night

ROGESA Roheisengesellschaft Saar mbH, a joint subsidiary of AG der Dillinger Hüttenwerke und Saarstahl AG, has awarded Paul Wurth with the order to design and supply coke oven gas injection systems for the company's blast furnaces No. 4 and No. 5 located in Dillingen/Saar, Germany.

With this new technology, coke oven gas will become a metallurgical process gas instead of being used for producing energy at low efficiency level. In its new role,

coke oven gas will partially replace both pulverized coal and metallurgical coke as reducing agents in the blast furnace process, thus contributing to reducing the carbon intensity in the blast furnace as well as the carbon footprint of the overall ironmaking operations. ROGESA, Dillinger and Saarstahl consider the application of this technology as a bold step toward the hydrogen based ironmaking of the future.

In preparation of the project, Paul Wurth accompanied the customer in research work and pilot plant trials. Now, the order is being executed on a turn-key basis and includes design and engineering for the two coke oven gas injection sub-plants, supply of technological key items like flow control and check valves, supply and erection of vessels, piping and supporting structure, automation of the plants and integration into the existing process technology and plant configuration.

As per the project schedule, coke oven gas injection shall start in summer 2020 at half of the number of hot blast tuyeres of No. 5 blast furnace with the aim to come to permanent injection at all tuyeres of both furnaces by the end of the same year.

Within Paul Wurth's strategy to come to a carbon neutral primary metallurgy, coke oven gas injection at tuyere level is a part of the company's portfolio of readily available solutions for stepwise CO₂ emission reduction for existing integrated steel plants.

About Paul Wurth

Headquartered in Luxembourg since its creation in 1870, the Paul Wurth Group is an established technology provider for the primary stage of integrated steelmaking. Paul Wurth is a leading market player for the design and construction of complete blast furnace and coke oven plants. Direct reduction plants, environmental protection solutions and recycling technologies complete Paul Wurth's product portfolio. With more than 1 500 employees and entities in around 20 countries, the Paul Wurth Group has a strong presence in the significant iron and steel regions of the world.

SMS group is a group of companies internationally active in plant construction and mechanical engineering for the steel and nonferrous metals industry. It has some 14,000 employees who generate worldwide sales of more than EUR 2.8 billion. The sole owner of the holding company SMS GmbH is the Familie Weiss Foundation.