

FAST FACTS

Stolberg Germany



Technology

Most energy-efficient lead smelter in Europe (QSL-technology), Bayqik-process for waste gas treatment and state-of-the-art silver plant.



Products

Lead and lead alloys, doré silver, sulphuric acid, copper by-products.



Employees

290



OUR LOCATION

The Nyrstar Stolberg smelter is located centrally in Europe. Its position in Germany is close to Aachen and the borders with The Netherlands and Belgium. Input materials reach the plant from all over the world through the overseas harbour by train and truck.

ENERGY EFFICIENT

The Nyrstar Stolberg Smelter is one of the world's most advanced, clean and energy efficient lead smelters. The encapsulated single-step process conserves the environment by constantly keeping emissions and energy consumption low.



The hot flue gases steam turns a turbine generating enough electricity to cover 50 per cent of the energy requirements of the site. The input materials are processed sustainably within the Nyrstar Stolberg plant. They are homogenized and then smelted in QSL. Liquid lead at a temperature of more than 1000°C is siphoned off continuously from the front end of the QSL-oxidation zone into cooling kettles where it is de-copperised.

Further treatment is carried out in the refining process. Lead is processed in 30 kettles, in which the individual impurities of the lead bullion are removed selectively in up to 9 steps. The produced lead and lead alloys are made to specific customer requests. In the silver plant doré silver anodes are produced in 3 consecutive refining steps. They are sold to gold and silver refineries for further processing.



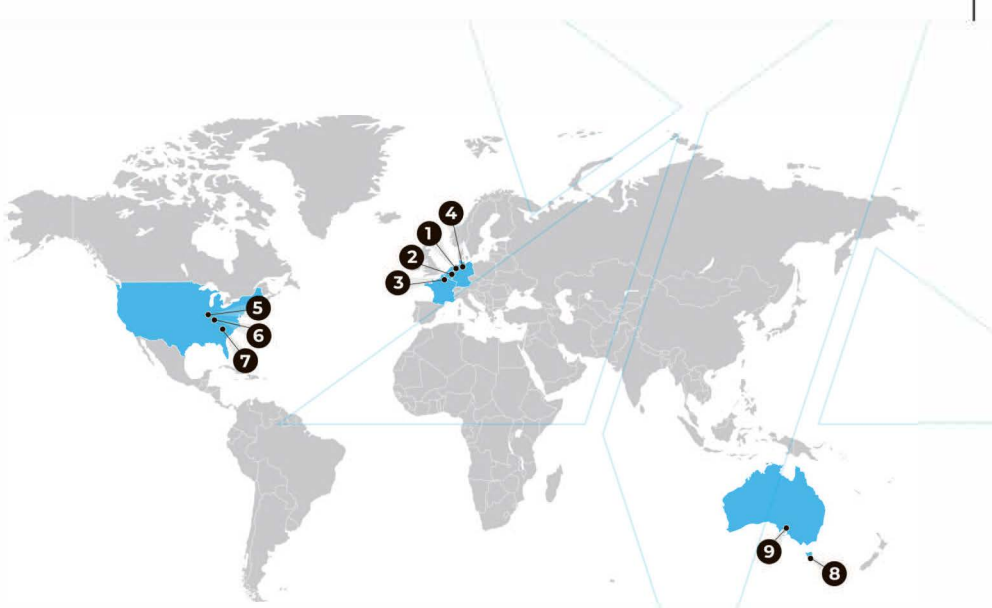
Stolberg is part of Nyrstar, an international producer of critical minerals and metals essential for a low carbon future.

Nyrstar's operating business is wholly owned by Trafigura, one of the world's leading, independent commodity trading and supply chain logistics companies.





Resources for a changing world



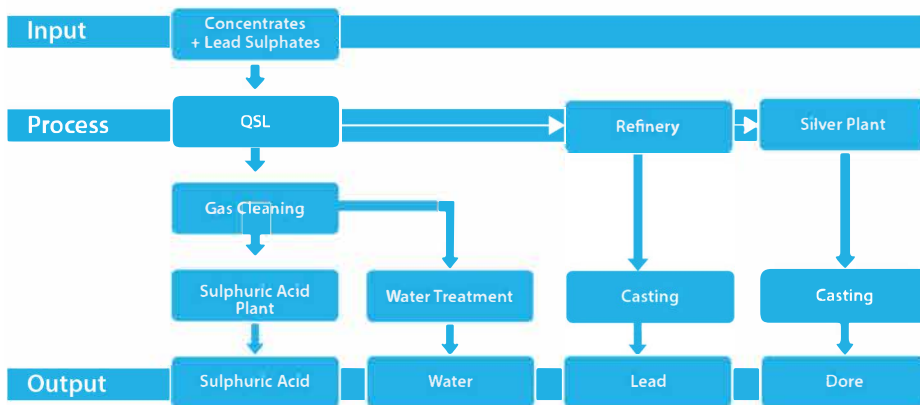
MINING SMELTING HEADQUARTERS

- 1 BUDEL Smelter & Corporate Office, The Netherlands
- 2 BALEN / PELT Smelter & Oxide Washing Plant, Belgium
- 3 AUBY Smelter, France
- 4 STOLBERG Smelter, Germany
- 5 CLARKSVILLE Smelter, USA
- 6 EAST TENNESSEE Mine Complex, USA
- 7 MID TENNESSEE Mine Complex, USA
- 8 HOBART Smelter, Australia
- 9 PORT PIRIE Multi-metals Processing Facility, Australia

HISTORY

The Stolberg site has been in lead-smelting operation since 1848. In 1990 the QSL technology was introduced to the site and technological leadership in the multi-metal smelting from lead concentrates and secondary raw materials was gained. QSL technology makes it possible to extract lead, silver, gold and copper within a single encapsulated aggregate with significantly lower specific energy consumption compared to conventional technology. Stolberg has continuously invested high amounts in environmental protection and process technology since 2000 and continuous to reduce emissions and effluents of all kinds as a neighbour to the surrounding environmental protected areas. In 2016 the new silver plant was put into operation, increasing the annual silver production capacity. After the devastating flooding of July 2021 the plant is successfully back into production since March 2023.

STOLBERG PRODUCTION PROCESS



NYRSTAR

With a market leading position in zinc and lead, Nyrstar has mining, smelting and other operations located in Europe, the United States and Australia and employs approximately 4,000 people. Its Corporate Office is based in Budel-Dorplein, the Netherlands. The company's operations are located close to key customers and major transport hubs to facilitate reliable and efficient delivery of raw materials and distribution of finished products.



Stolberg
Germany
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