



Resources for a changing world

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

300



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 protects the environment by constantly keeping emissions and energy consumption low.



The heat from the waste gas is transformed to steam which generates over 50% of the electrical power demand of the site. The input materials are processed sustainably within the entire Nyrstar Stolberg plant. They are homogenized and afterwards smelted in QSL. Liquid lead at a temperature of nearly 1000°C is tapped continuously from the QSL-oxidation zone and is pre-decopperized in cooling kettles.

Further treatment is carried out in the refining process. Lead is processed in 29 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.

In Stolberg, in the Aachen city region of North Rhine–Westphalia, Nyrstar operates one of the largest primary lead smelters in the world and is the second-largest silver doré producer in Germany.

The plant is one of only two remaining primary multi-metal lead smelters in Germany.

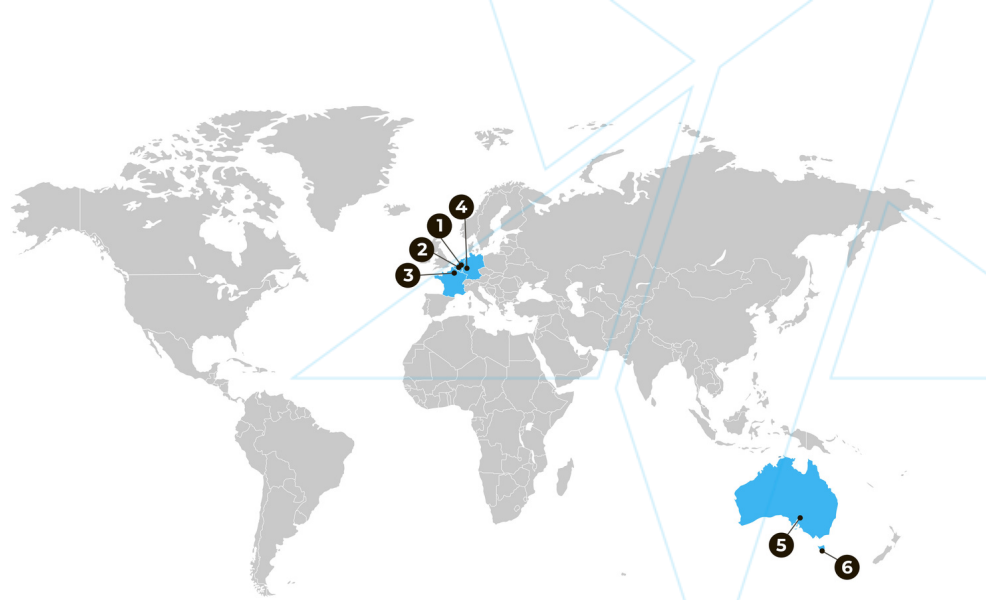
The site anchors industrial value creation and skilled employment while pursuing a decarbonisation pathway with the potential to further reduce CO₂ emissions.



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SMELTING HEADQUARTERS

- 1 BUDEL Zinc Smelter & Corporate Office, The Netherlands
- 2 BALEN / PELT Zinc Smelter and Oxide Washing Plant, Belgium
- 3 AUBRY Zinc Smelter, France
- 4 STOLBERG Lead / Multi-Metals Smelter, Germany
- 5 PORT PIRIE Lead / Multi- Metals Smelter, Australia
- 6 HOBART Zinc Smelter, Australia

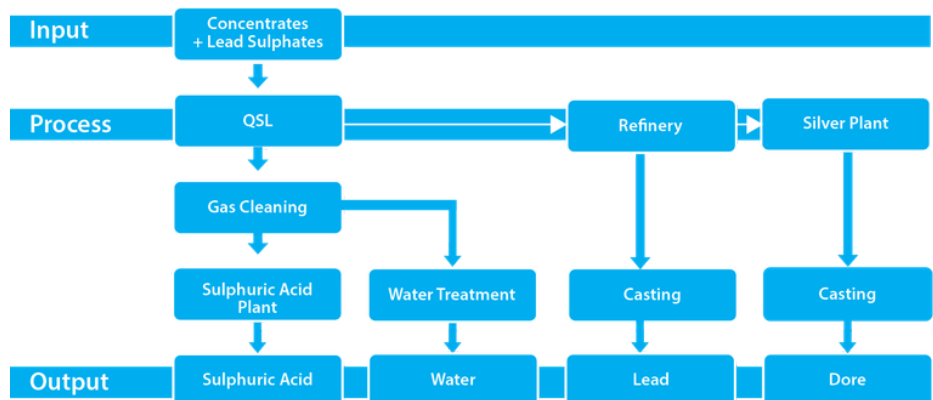
HISTORY

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.

Since 2000, Stolberg has continuously invested in environmental sustainability and process technology, steadily reducing emissions and effluents while operating alongside surrounding protected natural areas. In 2016 the new silver plant was put into operation, increasing the annual silver production capacity.

STOLBERG PRODUCTION PROCESS



NYRSTAR

Nyrstar, headquartered in the Netherlands, is a leading international producer of industrial and critical minerals and metals essential to the energy transition, high-technology applications and regional security.

With a market-leading position in Zinc and Lead, the company operates interlinked smelting and related facilities across Europe and Australia, employing more than 3,000 people.

Nyrstar's operating business is wholly owned by Trafigura, a leading global commodities group providing critical resources to the world. Visit www.nyrstar.com.



Stolberg
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