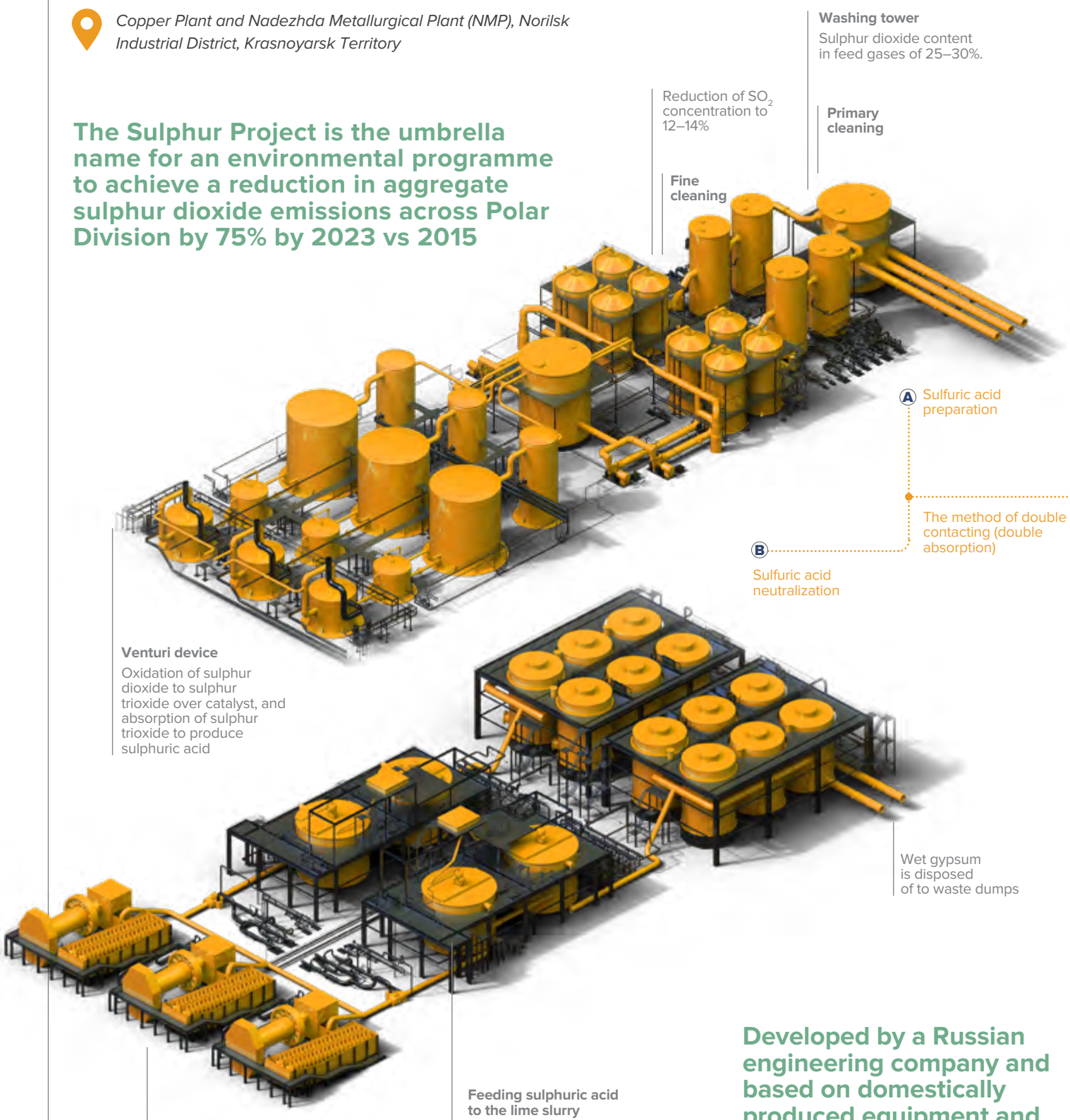
SULPHUR PROJECT

Copper Plant and Nadezhda Metallurgical Plant (NMP), Norilsk Industrial District, Krasnoyarsk Territory

The Sulphur Project is the umbrella name for an environmental programme to achieve a reduction in aggregate sulphur dioxide emissions across Polar Division by 75% by 2023 vs 2015



Developed by a Russian engineering company and based on domestically produced equipment and technologies

1 Nadezhda Metallurgical Plant

Nadezhda Metallurgical Plant will have new facilities capturing sulphur-rich gases, while sulphur acid will be neutralised with natural limestone, with waste gypsum produced as a result. In addition, a revolutionary continuous copper matte converting unit will be built. Its emissions will also be used to produce sulphur acid.

2 Copper Plant

Meanwhile, Copper Plant will see its elemental sulphur production capacities ramped up and the entire converter section shut down.

Highlights

2017 CAPEX of ca.	RUB 2.2 bn (ca. USD 37 mln)
Less sulphur dioxide emissions	75% by 2023
Estimated project costs of ca. (according to the feasibility study)	USD 2.6 bn
Completion scheduled for	2022

Video about the Sulphur Project

PROJECT STATUS

2016–2017

Nadezhda Metallurgical Plant:
- design specifications developed and approved, feasibility study prepared and approved;
- first long lead equipment arrangements made;
- design documents developed under a contract with Kazgiprotsvetmet

Copper Plant:
- design specifications developed, feasibility study prepared;
- engineering surveys required to develop key technical solutions to bring project up to date completed.

New volume of the Maximum Permissible Emission Rates for the period until 2023 approved. Project approved and presented at Strategy Day in November 2017.

2018 targets:

Nadezhda Metallurgical Plant:
- launching the Implementation stage to prepare engineering documents;
- obtaining the State Expert Review Board's approval for the project;
- start tender procedures for long lead equipment and select an EPC contractor for the project.

Copper Plant:
- Gipronickel Institute preparing engineering documents for non-standardised equipment;
- launching the Implementation stage to prepare engineering documents;
- arranging a tender to select a contractor for further implementation of the project, with on-site preparations.

Continuous copper converting facility:
- Obtaining the State Expert Review Board's approval for the NMP project; launching the Implementation stage to prepare engineering documents, start tender procedures for long lead equipment and select an EPC contractor for the NMP project.