



Sulphur Programme 2.0, Nornickel's new comprehensive environmental protection programme, aims to achieve world-class performance in sulphur capture and zero emissions within the cross-border zone affected by Kola MMC.

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 Enabling the Transition to a Greener World  
4.1 Mb

**Related News**

-  Nornickel signed contract on sulphur project for Nadezhda Metallurgical Plant
-  Vladimir Potanin kick starts the Sulphur Project at Copper Plant in Norilsk

**Video**



Sulphur programme



**Nornickel is committed to environmentally responsible production of metals and for many years has invested substantial resources in a bid to cut hazardous emissions at its facilities. A big part of this effort is the Sulphur Project – Nornickel's largest and most significant environmental endeavor that will allow us to cut sulphur dioxide emissions in Norilsk by 90% in five years. We are fully committed to completing this project on time.**

*Sergey Dubovitsky,  
Senior Vice President Strategy,  
Strategic Projects, Logistics & Procurement*

**01 STEP**



**900** mln USD

**shutdown of the Nickel Plant, upgrade of the Talnakh Concentrator, refurbishment and ramp-up of smelting capacities at the downstream reconfiguration projects.**

**Status:** completed

**Timeline:** 2014-2016

**Target:** reduction of sulphur dioxide emissions in residential areas in Norilsk by 30-35%

## 02 STEP



**3.6** bn USD (Phase 1+2)

**Status:** in progress

**Timeline:**

2019-2030 for Polar Division,

2019-2022 for Kola Division

**The introduction of a new comprehensive environmental protection programme, conventionally called “Sulphur Programme 2.0”, an unprecedented that covers our key geographies. The launch of sulphur projects at the Nadezhda smelter and the Copper Plant to capture emissions. Completed operations in Nickel town and the Copper line at the Kola Refinery. Implementation of the Sulphur Programme will help our Polar Division (Nor SO2 emissions, while bringing the Kolar Division in line with global peers.**

### Polar Division

**-45% ↓**

reduction of SO2 emissions at the Polar Division by 2023 (vs. 2015)

**-90% ↓**

reduction of SO2 emissions at the Polar Division by 2025 (vs. 2015)

**-95% ↓**

reduction of SO2 emissions at the Polar Division beyond 2030+ (vs. 2015)

**3.6** USD bn (Phase 1+2)

for comprehensive environmental solution for Polar Division

### Kola Division

**-50% ↓**

reduction of SO2 emissions in Nickel town and the city of Zapolyarny by the end of 2020 (vs. 2015)

**-85% ↓**

reduction of SO2 emissions in the Kola Division (vs. 2015)

### Sulphur Programme (Polar division)

This is a large-scale environmental project designed to capture sulphur dioxide emissions at the Nadezhda Metallurgical Plant and the Copper Plant (both part of Nornickel's Polar Division), dramatically reducing emissions.

**Location:** Norilsk Industrial District, Krasnoyarsk Region (Polar Division)

**Project overview:** The project will be phased in at Nornickel's two core downstream facilities in the Norilsk Industrial District as follows:

#### 1. Nadezhda Metallurgical Plant

- **Phase 1:** The recovery of gases at Nadezhda and the establishment of acid neutralisation facilities (including gypsum storage and related infrastructure) —to be completed by 2023
- **Phase 2:** The expansion of neutralisation infrastructure (for sulphuric acid from Cu stream) — to be completed by 2025

#### 2. Copper Plant

- **Phase 1:** Preparatory work and retrofitting of the gas-cleaning unit — to be completed by 2023
- **Phase 2:** Recovery of sulphur dioxide from rich off-gases at sulphuric facilities, reduction of Copper Plant's emissions to the maximum allowable limits, and the discontinuing of converter operations with sulphur-poor gases — to be completed by 2025

### Sulphur Programme (Kola Division)

The Sulphur Programme at Kola MMC focuses on the closure of the obsolete production shop in Nickel town (near the Norwegian border) and downstream modernization in Monchegorsk. These activities will completely eliminate sulphur dioxide emissions in the Russia-Norway border area and significantly reduce adverse environment impact in Monchegorsk.

**Location:** Nickel settlement, Murmansk Region

**Project overview:** The project envisages the construction of a 200 kt dry concentrate loading point, the upgrade of the flotation circuit at the Zapolyarny Concentrator to allow for production of two types of copper nickel concentrate, and the complete shutdown of smelting operations in Nickel. The new facility will separate high-grade concentrate and low-grade concentrate, ready to be shipped to third-party consumers. After all smelting operations are shut down, the employees will be offered jobs at other Nornickel enterprises.