



**-75%**

target reduction of SO<sub>2</sub> emissions in the Norilsk Industrial District by 2023

**-50%**

target reduction of SO<sub>2</sub> emissions in the settlement of Nickel (Kola MMC) by 2019

## Environmental programme

The integrated environmental programme expected to receive ca. USD 2.5 bn in investments by 2023 is one of the priority focus areas of Nornickel's strategy. The programme is designed to decrease SO<sub>2</sub> emissions by 75% in the Norilsk Industrial District and by 50% on the Kola Peninsula.



We are launching the second stage of our environmental programme, the Sulphur Project, on a scale that is unprecedented not only in Russia but worldwide."

**Vladimir Potanin**

# Improvement of environmental conditions across Russian operations and globally

# Environmental programme 2.0

## Kola Peninsula Kola MMC

### Objective

Cut emissions in the Kola Peninsula by 50%

### Goal

Optimise the smelting shop capacity utilisation rates in the settlement of Nickel by separating the concentrate produced at Kola Concentrator

## Taimyr Peninsula, Polar Division

Sulphur Project

### Objective

Cut sulphur dioxide emissions by 75% (as compared to 2015) by 2023 leveraging the most effective technological solution

#### The programme includes two stages

Stage 1 was completed in 2016 as a part of the downstream reconfiguration programme that included upgrade of concentrating and smelting capacities as well as the shutdown of Nickel Plant, the oldest and least environmentally friendly site in the Polar Division, to substantially reduce emissions in the residential area of Norilsk. At present, the Company is working to achieve Stage 2 goals.

### Goals (Stage 2)

#### Copper plant

- Reconstruct copper production chain, including the shutdown of environmentally harmful conversion operations
- Expand and upgrade the existing sulphur production

#### Nadezhda Metallurgical Plant

- Launch a new continuous copper matte converting facility
- Implement a comprehensive SO<sub>2</sub> capture solution including production of sulphuric acid and its subsequent neutralisation with natural limestone

More details on the Sulphur Project

 p. 90

# Investing in pure metal



Providing the growing electric vehicle industry with critically important metals

Ni, Cu, Co

More details

 p. 34



Providing catalyst producers with critically important metals

Pt, Pd

More details

 p. 44