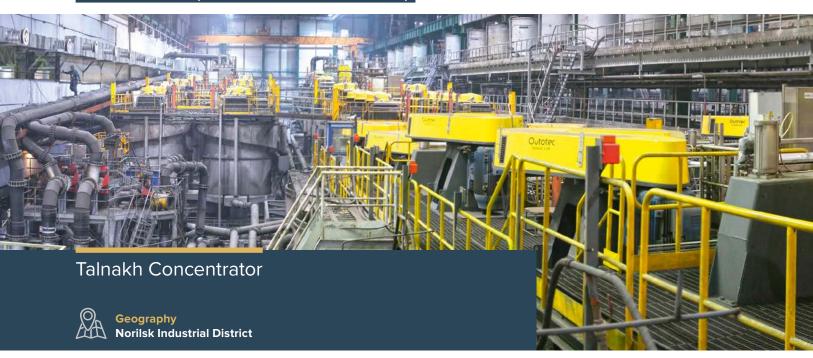
/ Business Overview /

Key investment projects

TAIMYR PENINSULA (NORILSK NICKEL'S POLAR DIVISION)



HIGHLIGHTS

Stage 2

- Design ore processing capacity of 10,2 mtpa
- Increased nickel content in nickel concentrates from 8.6% to 13.5%
- Reduced smelting costs due to a 12% decrease in sulphide mass in the concentrate received (starting from 2016)
- Increased sulphur disposal to tailings by 16%
- 2016 CAPEX of ca. RUB 10 bn (USD 148 mln)
- Outstanding CAPEX of ca. RUB 4 bn (USD 69 mln)
- IRR (Stages 1-2) > 40%

Project overview

The main phase of a major Talnakh Concentrator reconstruction project was launched in April 2014. Stage 1 was commissioned in January 2015. Talnakh Concentrator's Stage 2 involved expansion of the main building, reconstruction of the reagent preparation building, and construction of several new facilities. In fact, Stage 2 was equivalent to constructing a new concentrator capable of processing all ores from the Talnakhskoye Field.

Environmental effect

Sulphur emissions per tonne of produced non-ferrous metals were reduced due to a 12% decrease in sulphide content in the concentrate.

PROJECT STATUS

Stage 2: Phase 1 of the new tailings pit fully commissioned in September 2016; processing equipment installation completed in October 2016.

Project schedule



Launch and commissioning of Stage 1



Launch of processing capacity at Stage 2



Commissioning of Talnakh Concentrator's new tailings pit



Full commissioning of Stage 2

Q1 2015 (completed)

October 2016 (completed)

Q4 2016 (completed)

Q1-Q2 2017



HIGHLIGHTS

- Gradual increase in the annual ore output to 0.95 mln t by 2018 and 2.4 mln t by 2024
- Ore reserves of 58 mln t
- 2016 CAPEX of ca. RUB 10 bn (USD 153 mln)
- Outstanding CAPEX for 2017–2024 of ca. RUB 80 bn
- IRR > 30%

Project overview

The project is aimed at boosting the existing annual ore output by stripping rich cuprous ore reserves of the Talnakhskoye and Oktyabrskoye Fields and preparing them for extraction.

PROJECT STATUS

Commissioned in 2016: Stage 1 and Stage 4 of the production facility with an annual capacity of 300 kt of rich ore.

Sinking in 2016: 420 metres of ventilation shaft–10 (1.8 out of 2.1 km completed) and 455 metres of skip-cage shaft–1 (1.3 out of 2.1 km completed); drifting of over 2.3 km.

Average metal content



2.7%



3.1%



8.0 g/t

Project schedule



Capacity commissioning (500 kt) Capacity commissioning (300 kt)



Production ramp-up (to 1.75 mln t)



Completion of ventilation shaft-10 construction



Completion of skip-cage shaft-1 construction



Production ramp-up (to 2.4 mln t)

2015 (completed)

2016 (completed)

2017

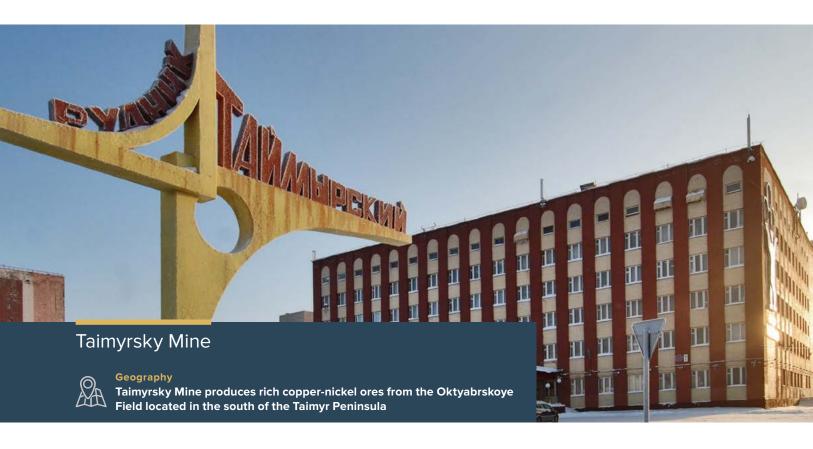
2018

2019

2024

68 Group Profile Strategic Report Corporate Governance

/ Business Overview / Key investment projects



HIGHLIGHTS

- Ore reserves of 63.0 mln t
- 2016 CAPEX of ca. RUB 4 bn (USD 68 mln)
- Outstanding CAPEX for 2017–2022 of over RUB 30 bn
- IRR > 60%

Project overview

The project is aimed at increasing rich ore production from $3.5\,\mathrm{mln}\,\mathrm{t}$ to $3.9\,\mathrm{mln}\,\mathrm{t}$ by 2020 through improved performance.

PROJECT STATUS

Over $5.9~\mathrm{km}$ of underground workings completed and $0.2~\mathrm{mtpa}$ of new capacity commissioned in 2016.

Average metal content



2.3%



3.5%



7.3 g/f

Project schedule



Capacity commissioning (300 kt)



Capacity commissioning (100 kt of rich ore)



Capacity commissioning (800 kt of rich ore)



Capacity commissioning (200 kt of rich ore)



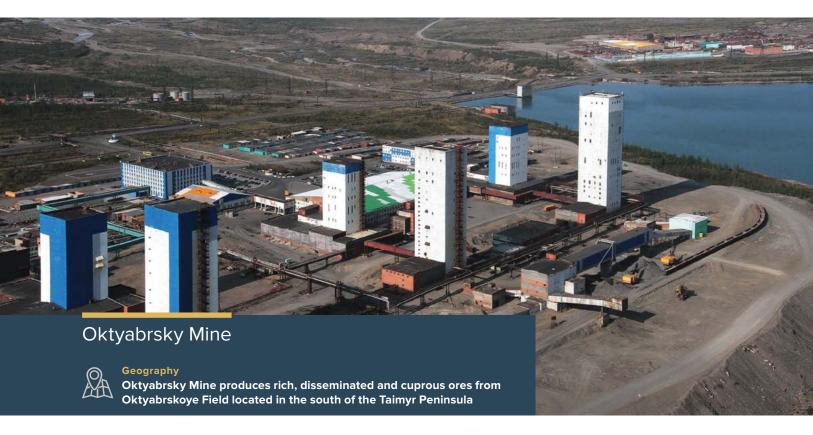
2016 (completed)

Q3 2017

Q4 2018

Q4 2019

(to 3.9 mln t)



HIGHLIGHTS

- Ore reserves of 59 mln t
- 2016 CAPEX of ca. RUB 4 bn (USD 59 mln)
- Outstanding CAPEX for 2017–2022 of ca. RUB 11 bn
- IRR > 75%

Project overview

The project is aimed at maintaining the current annual production level at 5.2 mln t until 2023.

PROJECT STATUS

In 2016, 6 km of underground workings were completed and Stage 4 commissioned to maintain cuprous ore output at 3.0 mtpa.

Average metal content



1.0%

Capacity commissioning (250 kt of disseminated ore)



3.1%



7.6 g/t

Project schedule



2

Capacity commissioning (100 kt of rich ore)





Capacity commissioning (50 kt of rich ore and 700 kt of cuprous and disseminated ore)



Capacity commissioning (300 kt of cuprous and disseminated ore)

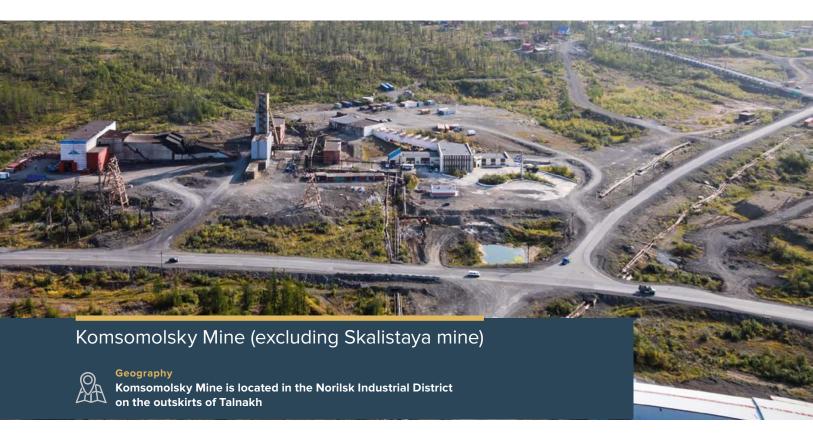
Q2 2020

2020-2025

Q2 201

70 Group Profile Strategic Report Corporate Governance

/ Business Overview / Key investment projects



HIGHLIGHTS

- Ore reserves of 24.9 mln t
- 2016 CAPEX of ca. RUB 3 bn (USD 40 mln)
- Outstanding CAPEX for 2017–2020 of over RUB 16 bn
- IRR > 43%

Project overview

The project is aimed at maintaining the current annual production level at $3.8-4.1\,\mathrm{mln}$ t until 2020.

PROJECT STATUS

In 2016, ca. 3 km of underground workings were completed and 100 ktpa of new capacity commissioned.

Average metal content



1.5%



1.8%



5.5 g/t

Project schedule



Capacity commissioning (100 kt of rich ore)



Completion of the western backfilling shaft Capacity commissioning (800 kt)



Capacity commissioning (200 kt of rich ore)



Capacity commissioning (100 kt of rich ore)



Capacity commissioning (200 kt of rich ore)

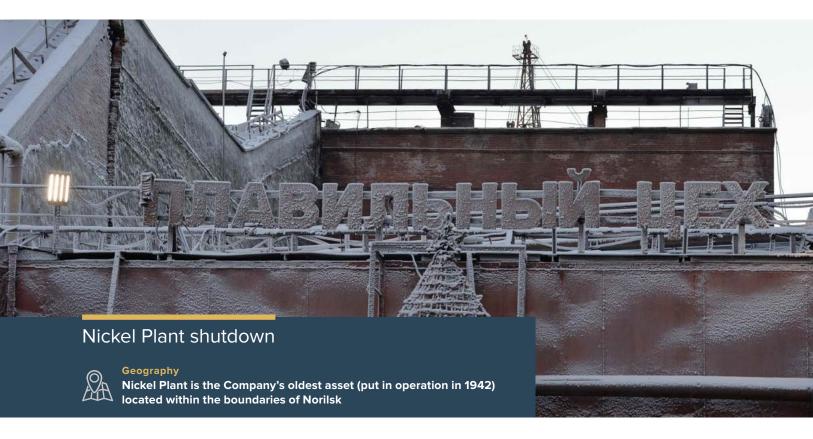
2016 (completed)

2017

2018

2019

2020



Project overview

All operations at Nickel Plant were shut down on 1 September 2016, with pyrometallurgical capacity at Nadezhda Metallurgical Plant expanded to process all nickel feedstock of Polar Division. Refining operations are being moved to Kola MMC and Norilsk Nickel Harjavalta.

Environmental effect

Upgrade of Talnakh Concentrator and shutdown of Nickel Plant are expected to reduce sulphide emissions by 15% and significantly decrease ground-level concentrations of pollutants in adverse weather conditions.

PROJECT STATUS

Nadezhda Metallurgical Plant

March 2016: smelting operations launched to process all of the Polar Division's nickel concentrate by ramping up pyrometallurgical capacity to 2.4 mtpa of ore; 2016 CAPEX of ca. RUB 1.3 bn; outstanding CAPEX for 2017 of ca. RUB 0.8 bn.

Q1 2016: existing capacity upgraded to process 150 ktpa of nickel slag from Copper Plant; CAPEX of RUB 0.1 bn.

July 2016: all nickel feedstock transferred from Norilsk Concentrator; CAPEX of RUB 0.7 bn.

Copper Plant

Project launched to transfer sodium bisulfate production from Nickel Plant's sintering shop; CAPEX of RUB 0.7 bn.

Project schedule



Shutdown of Nickel Plant's sintering and smelting shops



Shutdown of all operations at Nickel Plant



Design documents for mothballing and decommissioning of the plant's production facilities

August 2016 (completed)

72 Group Profile Strategic Report Corporate Governance

/ Business Overview / Key investment projects



HIGHLIGHTS

- Sulphur output of up to 600 ktpa
- Sulphur dioxide recovery rate of at least 95%
- 2016 CAPEX of RUB 0.6 bn.

PROJECT STATUS

- SNC Lavalin began to develop engineering documents
- Estimation of power supply infrastructure costs in progress
- Engineering surveys for the Engineering Documents stage completed
- Preparation of the construction site in progress.

Project overview

The project aims to design and introduce new solutions and technology to extract elemental sulphur from waste gases of Nadezhda Metallurgical Plant's flash smelters, and reduce sulphur dioxide emissions down to the level prescribed by regulations.

Environmental effect

This project will have the strongest impact on improving environmental performance among other upgrade projects of the Company. Its goal is to reduce sulphur dioxide emissions with the most effective technology.

Project schedule

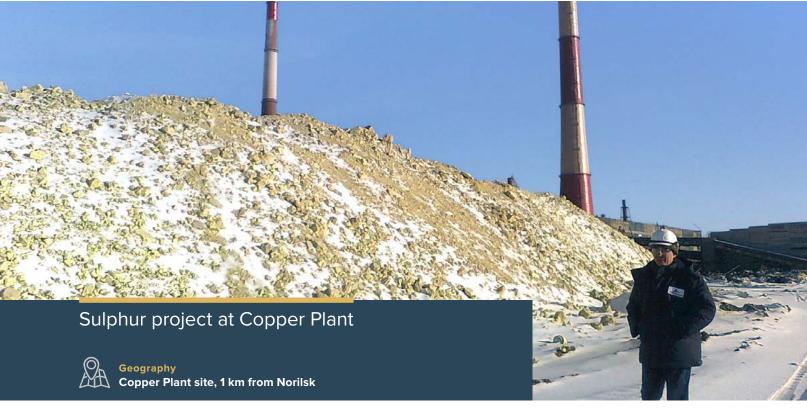


Sulphur project design documents; approval of design documents and results of engineering surveys and inspections by Russia's State Expert Review Board

5

Engaging SNC Lavalin (Canada) to develop engineering documents

Q4 2016 (completed)



HIGHLIGHTS

- Sulphur output of up to 280 ktpa
- Sulphur dioxide recovery rate of at least 90%
- 2016 CAPEX of ca. RUB 13 mln
- Estimated completion in 2021

Project overview

The project aims to design and introduce new solutions and technology to extract elemental sulphur from waste gases of Copper Plant's Vanyukov furnaces, and reduce sulphur dioxide emissions down to the maximum permitted level. The project is an alternative solution to high sulphur dioxide emissions and provides for sulphur production refurbishment at Copper Plant with technology developed by Gipronickel Institute with an option to use some of the existing buildings, structures, machinery and infrastructure.

PROJECT STATUS

Feasibility study and preparation of design specifications in progress; completion expected in Q1 2017.