

KEY INVESTMENT PROJECTS

MINING PROJECTS



Skalisty mine forms part of Nornickel's Polar Division and produces ore from the Talnakhskiye and Oktyabrskoye deposits. In 2018, the mine extracted 2.0 mt of rich ore.

Skalisty Mine

Location

Norilsk Industrial District, Krasnoyarsk Territory (Polar Division).

Project overview

Increasing ore production to 2.4 mtpa by 2023 by stripping rich and cupriferous ores at the Talnakhskiye and Oktyabrskoye deposits.

Highlights

Ore reserves: **57** mt

Average metal content:

- Ni – 3.1%
- Cu – 3.6%
- PGM – 9.7 g/t¹

2018

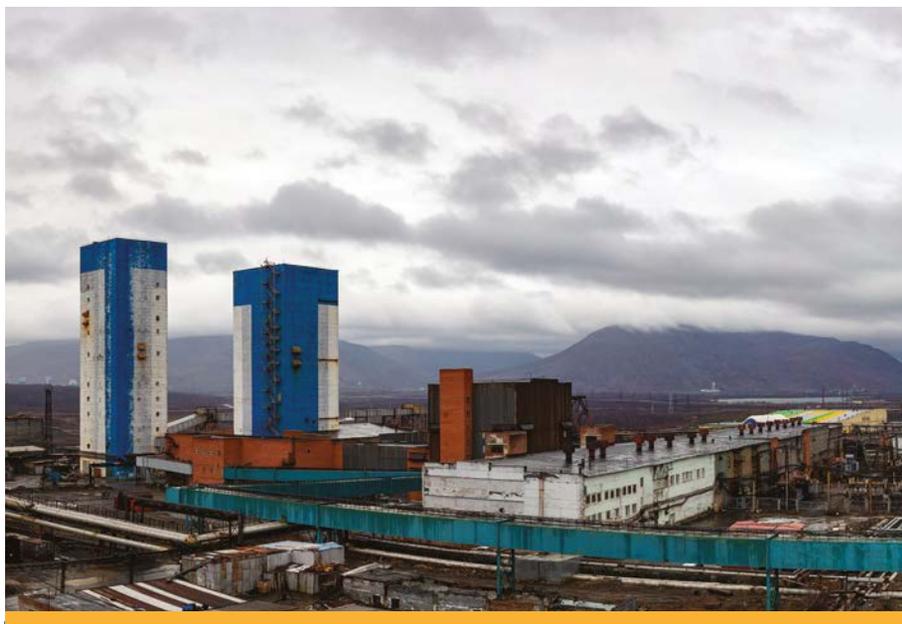
- CAPEX – RUB 13.9 bn (USD 218 mln)
- Ore production reached 2 mtpa
- Sinking of ventilation shaft-10 completed (total of 2.1 km)
- 206 m sinking of skip-cage shaft-1 (total of 1.9 km out of 2.1 km)

2019

- Completion of ventilation shaft-10 construction
- Completion of skip-cage shaft-1 sinking

2023

- Reaching design capacity



Taimyrsky Mine forms part of Nornickel's Polar Division and produces ore from the Oktyabrskoye Deposit. In 2018, the mine extracted ca. 3.8 mt of rich ore.

Taimyrsky Mine

Location

Norilsk Industrial District, Krasnoyarsk Territory (Polar Division).

Project overview

Increasing ore production to 4.1 mtpa by 2021 by stripping rich copper-nickel ores at the Oktyabrskoye Deposit.

Highlights

Ore reserves:	139_{mt}
Average metal content:	Ni – 1.2%
	Cu – 1.9%
	PGM – 4.5 g/t ¹

2018

- CAPEX – RUB 4.6 bn (USD 71 mln)
- 6.1 km of underground workings completed and underground facilities upgraded

2019

- Production capacity commissioning: 130 kt of rich ore

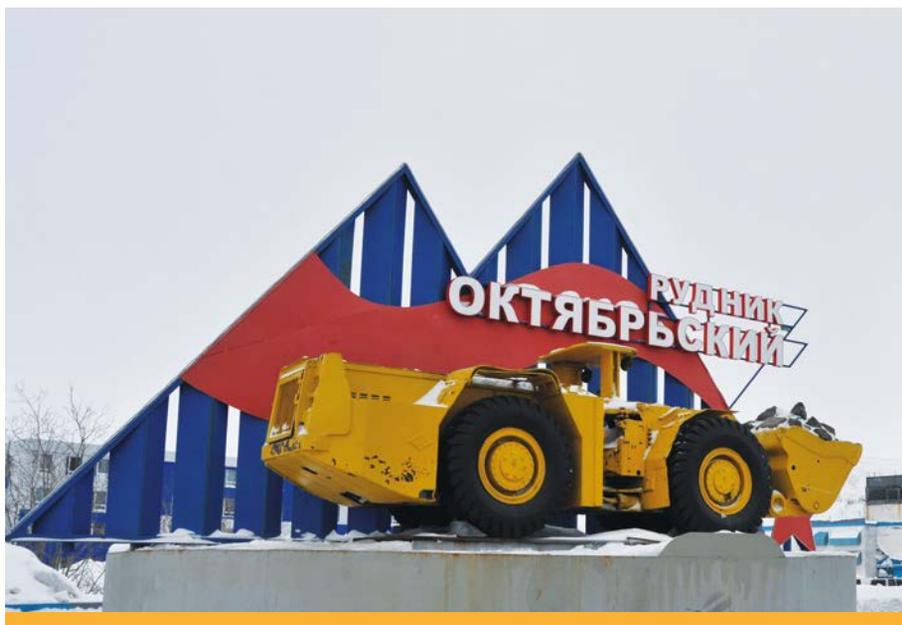
2020

- Production capacity commissioning: 720 kt of rich ore

2021

- Reaching design capacity

¹ According to JORC standards.



Oktyabrsky Mine forms part of Nornickel's Polar Division and produces ore from the Oktyabrskoye Deposit. In 2018, the mine extracted 5.2 mt of ore.

Oktyabrsky Mine

Location

Norilsk Industrial District, Krasnoyarsk Territory (Polar Division).

Project overview

Maintaining ore production at 5.2 mtpa until 2025 by stripping rich, disseminated and cupriferous ores at the Oktyabrskoye Deposit.

Highlights

Ore reserves: **219** mt

Average metal content: **Ni** – 0.7%
Cu – 2.1%
PGM – 5.9 g/t¹

2018

- CAPEX – RUB 2.6 bn (USD 40 mln)
- 4 km of underground workings completed
- Shared drainage of Taimyrsky and Oktyabrsky mines commissioned

2019

- Production capacity commissioning: 150 kt of rich ore and 700 kt of cupriferous disseminated ore

2020–2025

- Production capacity commissioning: 300 kt of cupriferous ore



Komsomolsky Mine forms part of Nornickel's Polar Division and produces ore from the Talnakhskoye and Oktyabrskoye deposits. In 2018, the mine extracted 3.8 mt of cupriferous ore.

Komsomolsky Mine

Location

Norilsk Industrial District, Krasnoyarsk Territory (Polar Division).

Project overview

Increasing ore production to 4 mtpa by 2021 by stripping rich, cupriferous and disseminated ores at the Talnakhskoye and Oktyabrskoye deposits.

Highlights

Ore reserves: **185_{mt}**

Average metal content: **Ni** – 0.6%
Cu – 2.6%
PGM – 4.8 g/t¹

2018

- CAPEX – RUB 2.8 bn (USD 44 mln)
- 4 km of underground workings completed

2019

- Production capacity commissioning: 200 kt of cupriferous ore and 226 kt of disseminated ore

2020

- Production capacity commissioning: 175 kt of rich ore

2021

- Production capacity commissioning: 225 kt of rich ore and 185 kt of disseminated ore
- Reaching design capacity

¹ According to JORC standards.