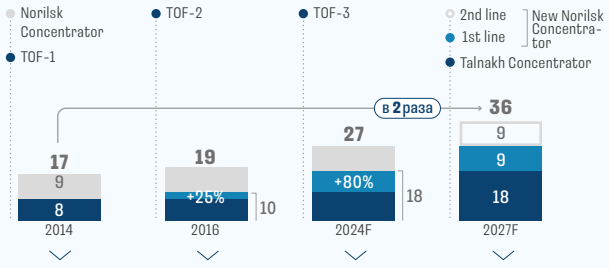
Production growth and comprehensive infrastructure upgrades

PRODUCTION CONFIGURATION ROADMAP

CONCENTRATOR CAPACITY UPGRADES

Concentration capacity (Mtpa)



Talnakh Concentrator upgrades

Phase 1:

Increased and optimised operating rate

Improved nickel recovery rate (+1%)

Upgraded facilities

Phase 2:

Capacity increased to 10.2 Mtpa

New technology adopted

Phase 3:

Under construction

Target capacity: 18 Mtpa

Improved recovery rate (+4%–7%)

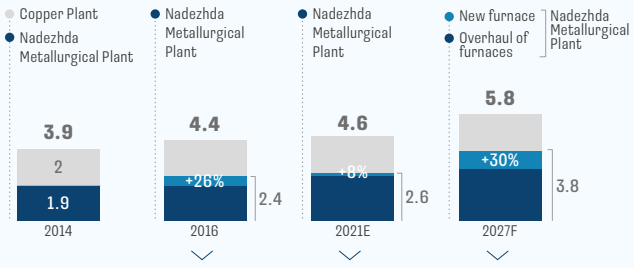
New Norilsk Concentrator

Targeted capacity addition: up to 18 Mtpa

New production facility based on proven modern technology

SMELTING CAPACITY UPGRADES

Smelting facilities throughput (Mtpa)



Nadezhda Metallurgical Plant

Phase 1

Upgrade of flash smelting furnaces to expand throughput to 2.4 Mtpa

Smelting, concentrate drying and filtering facilities upgraded

Phase 2

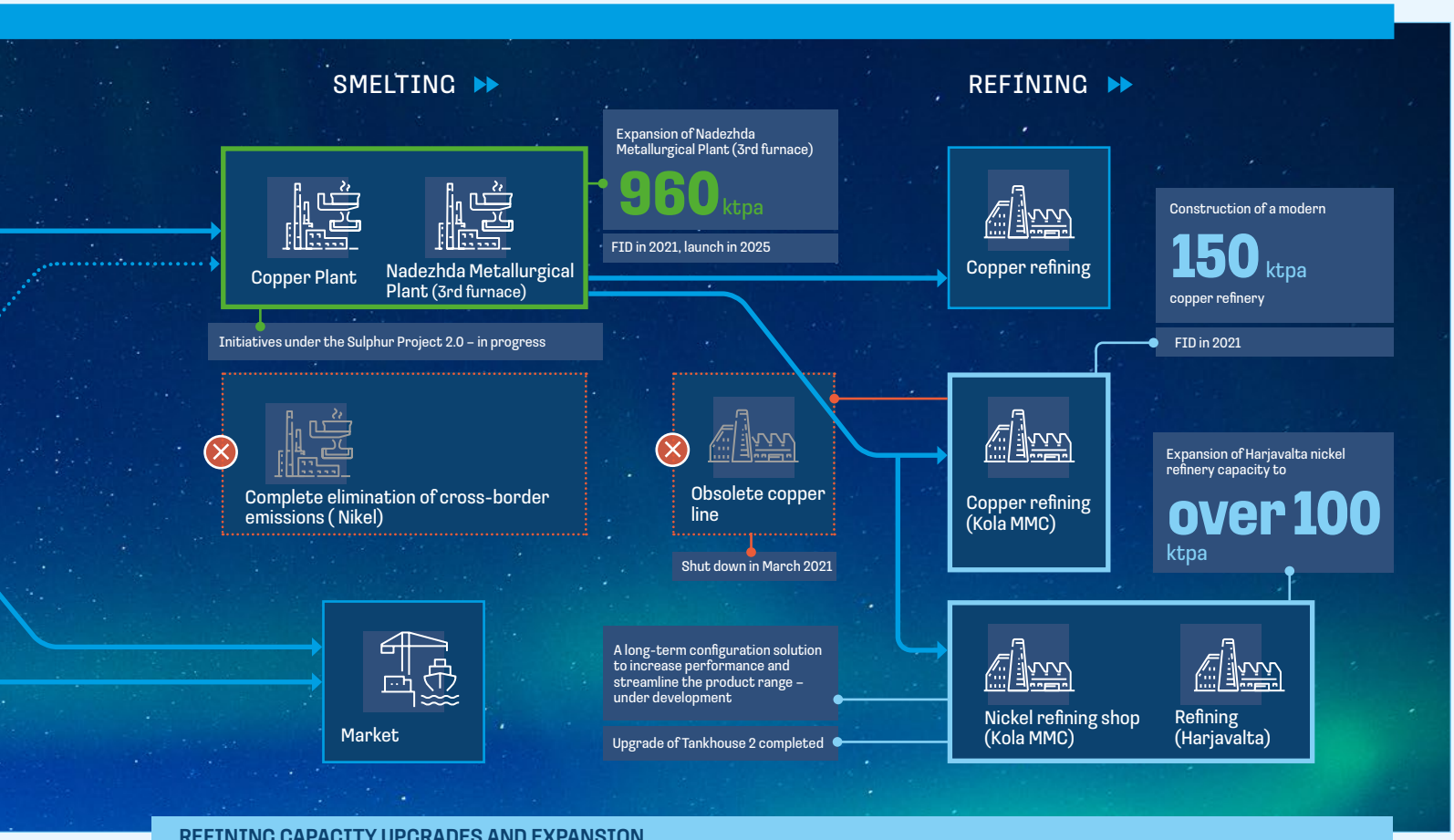
Debottlenecking initiatives

Throughput increased to 2.6 Mtpa

Maintenance of flash smelting furnaces at Nadezhda Metallurgical Plant in 2022–2024

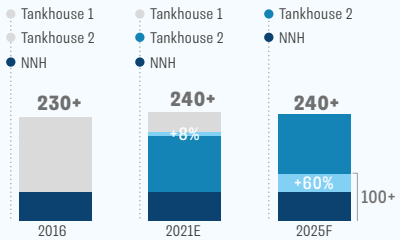
3rd furnace at Nadezhda Metallurgical Plant

Continuous converting complex at Copper Plant

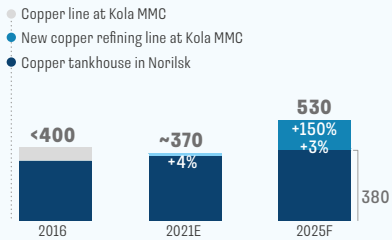


REFINING CAPACITY UPGRADES AND EXPANSION

Nickel refining (ktpa)



Copper refining (ktpa)



Kola Division

Tankhouse 2: Technological upgrade and capacity expansion

Harjavalta (NNH) capacity expansion to 100+ ktpa of high-quality nickel products

Kola Division

Obsolete copper line in Monchegorsk shut down (March 2021)

Construction of a new 150 ktpa copper refining line using the roasting, leaching and electrowinning technology

Norilsk Division

Incremental capacity expansion of the copper tankhouse in Norilsk

HARJAVALTA NICKEL REFINERY: EXPANSION

Project overview

- Capacity expansion to boost the output of high-quality nickel products
- Capturing operational synergies from existing infrastructures

Project rationale

The decision to increase capacity is driven by a growing European market demand for the Company's high-quality battery materials with the industry's lowest carbon footprint

Project timeline

2023: Phase 1

75

kt Ni[1]

2026: Phase 2

>100

kt Ni[1]

1 Total capacity