



1H 2019 Financial Results Presentation August 20, 2019

Moscow

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1H 2019 Financial Performance Highlights

Consolidated Revenue

\$6.3bn

- Production volume: Ni, Cu, Pd, Pt
 - Realized Pd price
 - Ni, Cu, Pt realized prices



Completion of Bystrinsky Project (Chita) and a number of mining projects in the Polar division

Optimization of investment schedules

Depreciation of RUB against USD

EBITDA

up 8% vs 1H2018



Metal revenue

- Depreciation of RUB against USD
- Ramp up of Bystrinsky Project (Chita)
- Domestic inflation

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Free Cash Flow

\$2.2bn

- EBITDA increase
- Increase of working capital
- Higher income tax payments on higher taxable income

EBITDA margin

59% up 6 p.p. vs 1H2018 Leading positon among global diversified mining majors

Net Debt/EBITDA ratio

0.8×

Below mid-cycle level

Investment grade credit ratings from all three major international rating agencies confirmed

Net Working Capital



Temporary increase is driven by amortization of cash advances from customers

Dividends



- Final dividend for 2018 in the amount of USD 12.56 per share⁽¹⁾ paid in July 2019
- The BoD recommended interim 1H 2019 dividend in the amount of USD 13.27 per share



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Health & Safety: Delivering Steady Results



- LTIFR remains below the global mining industry average
- Personnel and process safety across all operations remains the key focus
- Commitment to create strong safety culture at all levels of the organization
- Integral score ⁽¹⁾ based on independent assessment of occupational safety culture improved to 2.8 (out of 4) as of May 2019 from 2.6 in 2017 (1.4 in 2014)

Accident Statistics Materially Improved since 2015



- Total recordable fatal accidents and lost time injury rates, unfortunately, increased by 19% y-o-y
- 44 internal audits of Occupational Safety and Health management system were conducted in 1H 2019
- 70 employees were fired for the violation of cardinal safety rules (vs 33 in 1H 2018)



Nornickel Approach to Climate Change

Nornickel is committed to the principles set out in the UN Sustainable Development Goals

Leading global supplier of materials critical to building a low-carbon economy



GHG Emissions

10 mt of CO₂ emissions ⁽¹⁾

The lowest level of emissions among global mining diversified majors





Energy efficiency

44% electric power generated from renewable sources

USD800 mln

investments into energy infrastructure in 5 years





86%

reused and recycled water of total water consumed by the Group

Access to abundant water resources



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Note: 1. Scope-1, 2. Peer group includes BHP Billiton, Glencore, Rio Tinto and Vale

ESG Performance Highlights

Recognition of Norilsk Nickel ESG Efforts



Signatory to UN Global Compact since 2016



Reiterated as an index constituent in June 2019 Score of **3.0/5** ⁽¹⁾ vs. 2.5 sector average (up from 2.3 in 2017)



Rating updated in July 2019 Governance score 4/10 ⁽²⁾ Environmental score 2/10 Social score 2/10



Ranked #65/300 out of global metals and mining companies ESG score 58/100



Ranked in the top 100 Best EM performers in July 2019 one of the three Russian companies in the ranking

Gradual Improvement of Independent ESG Assessment

Sustainalytics ESG Score: 69 points (out of 100), Rated «Average Performer» since 2017



MSCI ESG Score: Rated «B» since 2017





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Markets Update



Weakening Macro, Strong Dollar and Trade War Sentiment – Negative Backdrop for Commodities





Metal Markets Outlook – View on Fundamentals



Source: Company estimates

Note: 1. Assuming that Indonesian ore ban brought forward from the scheduled deadline,

2. Excluding ETFs, investment demand and industry stocks movement. Numbers are rounded separately



Nickel Exchange Stocks Reached 7-years Lows



Drawdown of Exchange Inventories Continues

Inventories Declined by Over 70% from Peak Levels, Approaching Normal Levels

Days of consumption



Global NPI Production Volumes Continue to Set Records

Total NPI Production Adding Almost 300Kt of Nickel Units in 2019-2020

Chinese NPI Growth Dependent on Ore Availability +25kt Ni in Ore Imported to China in Jan-Jun 2019

Jan-Jun 2019: Indonesia +28% Y-o-Y

Kt, Ni units

Ore, MIn wmt



- In April 2017, Indonesia relaxed the ban on export of unprocessed nickel ore for 5 years until 2022
- Indonesian government is reportedly considering to bring forward the ban
- In the long-term, up to 40% of the feed (220kt of Ni or 10% of global supply) for Chinese NPI could be at risk



Potential Supply Impact if Indonesian Ore Ban is Brought Forward





China Stainless Growth Loses Steam

Strong Stainless Production Growth in China in 2019YTD



Increase of Nickel Imports to China in 1H 2019



Growth of Ni Demand in Stainless Steel Supported by Indonesia



China (300s) Indonesia (300s)



Source: Company data, Nieba, SMM

Nickel Consumption in Batteries – Small But Rapidly Rising

Market Share of Ni-intensive NCM/NCA Cathodes Expected to Reach 80% in 2019



Electric Vehicles Maintain Stable Growth Rates



Breakdown of Global PCAM Production by Type, 2019E

Towards Higher Ni Loadings

Within NCM Cathodes Chemistry Shifting



Ni Demand in EV Li-ion Batteries Rising Fast, But Still Small at 4% of Global Consumption



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Source: Company data, Chinese customs trade statistics

Nickel Expected to be a Balanced Market in 2019-2020



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Copper: Demand Concerns Prevail in 2019

Copper Supply Disruptions in 2019: Running Below Historical Average



 In 2019, no potential major supply disruption events anticipated so far

Moderating China's Copper Demand Still the Main Driver of Global Consumption Growth in 2019



Copper Imports to China Decreased in 1H 2019





Source: Company data, Wood Mackenzie

Copper Market is Developing Small Deficit, Inventories Have Been Trending Lower



Inventories Running Tight At Historical Lows

Copper Market Balance: Marginal Deficits to Reduce in 2020



- Exchange inventories running near historical lows
- Supply disruption rate is running below expectations in 2019
- Outcome of trade dispute between USA/China the main driver of investors' sentiment

- Growth of Chinese demand normalizing
- Global economy is slowing
- No major potential supply disruption events (e.g. negotiations with labour unions) in sight



Palladium Market Remains in Structural Deficit

Global Palladium Market Balance: Major Apparent Deficit⁽¹⁾ Holds

A Recovery of Supply is Expected in 2019 as a Result of Work-in-Progress Inventories Release





Tightening Emission Standards Pushing Demand Higher Despite the Slowdown in Automotive Sales



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Source: Company data Note: 1. Excluding ETFs, investment demand and industry stocks movement. Numbers are rounded separately

Platinum: Market Surplus is Absorbed by Strong Investment Demand

Platinum Market Balance⁽¹⁾: Surplus is Expanding in 2019, but Strong Investment Demand Should Absorb Some Excess Supply



Increase in Supply in 2019 Driven by Release of Workin-Progress Inventories



Demand is Expected to Stabilize in 2019 and Marginally Improve in 2020





Palladium: Spot Market Tightness Softening but Fundamentals Remain Strong





Automotive Sales Decline but PGM Loadings Increase

Global Automotive Sales ⁽¹⁾ Decreased by 7% in H1 2019 Y-o-Y

Expected Increase in Pd Loadings in 2019 due to Stricter Emission Regulations and Introduction of RDE Despite Engine Downsizing



Average PGM loadings per vehicle, change in 2019, (%)

xx%) Change in H1 2019, Y-o-Y

H1 2019



Fleet Electrification Targets Imply Active Hybridization

Major Automakers' Plans: Hybrids and Internal Combustion Engines to Dominate



Industry Expectations: Hybrids to Dominate in the Electric Vehicles Mix in the Long-term





Long-term Palladium Demand to Remain Strong

Significant Uncertainty in the LT Outlook for Electric Vehicles Results in a Wide Range of Expectations

CAGR 2017-2025E



2025 Scenarios of Global Light Vehicles Mix: Gasoline and Hybrids to Dominate Market Share



Key uncertainties for battery electric vehicles (BEVs):

- Cost of ownership
- Deployment of sufficient charging infrastructure
- Sustainability of government incentives



Premium of Palladium to Platinum is Sustainable in the Mid-Term

Palladium Established a Sustainable Premium to Platinum on Stronger Fundamentals...

... as Pd Loadings in Gasoline Vehicles are Supported by Higher Fair Value-in-Use



- Palladium performs better than platinum in gasoline vehicles
- Introduction of Real Driving Emission tests incentivises «over engineering» and higher palladium loadings
- Long-term stability/reliability of supply is supportive of palladium demand
- Progress in the development of prospective mining projects should mitigate structural deficit in the medium-term

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Technical Challenged in Substituting Palladium

Catalyst Installation in a Vehicle



- Timeline for substitution 18-24 months
- Technical challenges in testing new catalysts in RDE world
- Small cost incentive to substitution (~ USD100 per car)
- Consumer confidence in sourcing metal

Source: Company data



Auto Driven Metal Demand Growth in 2025E vs. 2018

Metal



Source: Company estimates

Note: 1. Incremental annual demand 2025 vs. 2018, 2. Ni consumption in batteries shown at the precursor material basis

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Nornickel's Metal Basket Content by Light Vehicle Type



Source: Company estimates, LMC Automotive, Bloomberg;

Note: 1. CAGR for 2018-2025E, 2. Expected market share in 2025 based on production; 3. Excluding additional infrastructure demand of 1-8 kg per charger; 4. Metal values calculated at spot prices as of July, 2019



1H 2019 Financial Results

Metal Sales Volumes and Realized Prices

Increase of Base Metals Sales: on Higher Production Volumes



Realized Prices: Macro Headwinds for All Metals But Palladium

PGM Sales: Strong Growth of Platinum on Higher Production Volumes





Sales Breakdown by Metals: Palladium Reached 40%



Note 1. Excluding sales of metals purchased from third parties, 2. Metal volumes represent metals contained in semi-products, 3. Copper metal sales excludes the sale of copper in concentrate produced by Bystrinsky GOK (Chita)

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Metals Revenue: Up on Strong Sales Volumes and Palladium Rally

Nickel Revenue: Almost Unchanged as Lower Prices Copper Revenue: Down 1% on Lower Prices, With Were Offset by Higher Sales Volumes



Palladium Revenue: Up 22% on Strong Market **Prices**



Some Offset from Higher Sales Volumes



Platinum Revenue: Down 1% on Lower Prices





Consolidated Metal Revenue

Metal Revenue Up Mainly on Increased Sales Volumes

[USD mln]

Macro

factors



12% 15%

North and South

America



→ Europe remains the single largest market accounting for 56% of metal sales

Europe

- \rightarrow Sales to Asia (25%) and Russian Federation and CIS (4%) remain by and large unchanged
- \rightarrow Increase of sales to Americas to 15% of total mainly owing to higher palladium sales to this region
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26% 25%

Asia

- Stronger palladium prices
- Higher metal sales as result of increase in production volumes
- One-off release of work-in-process inventory
- Re-sale of palladium

EBITDA and EBITDA Margin

Industry Leading EBITDA Margin

Output Growth and RUB Depreciation [USD mln] [USD mln] Operating Macro factors factors 59% +291 +349 54% 53% ٦Г 6p.p. 46% 3,719 41% 105 173 3,719 155 171 3,079 3,152 21% 245 3,079 -142 -67 2,251 1,744 Production One-off 2H2017 1H2018 2H2018 1H2019 1H2018 Metal FOREX Domestic Chita Other 1H2019 1H2017 Release of Inflation Project factors prices WIP

1H2019 EBITDA: Up on Strong Palladium Performance,

- Higher palladium prices (+USD245 mln)
- Depreciation of RUB against USD (+USD171 mln)
- Domestic inflation (-USD67 mln)
- Ramp up of Bystrinsky Project (Chita) (+USD155 mln)
- Productivity gains (+USD173 mln)
- One-off release of work-in-process inventory (+USD105 mln)



Operating Cash Costs: Withstanding Inflation Pressure



Reported Operating Cash Costs: Down Due to RUB depreciation

Adjusted Operating Cash Costs for FX, Metal and Semi-product⁽¹⁾ Purchase - Below Domestic Inflation

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1H2019 Cash Costs Breakdown

Note 1. Including Rostec and Nkomati

Net Working Capital in 1H2019

[USD mln]





Allocation of Capital Investments



CAPEX⁽¹⁾ Allocation: Commercial and Stay-in-Business

Note: 1. CAPEX in Cash flow statement. net of VAT



Financial Results Sensitivity to USD/RUB Exchange Rate





Free Cash Flow Decreased to USD 2.2bn on Working Capital Increase and Income Tax Payments Partially Offset by EBITDA Growth

[USD mln]





Balance Sheet Management

Historical Leverage: ND/EBITDA Back to Mid-Cycle Average



Liquidity and Debt Repayment Schedule

Proactive Debt Management

- In February 2019, Moody's upgraded the Company's credit rating from Baa3/Positive outlook to Baa2/Stable outlook
- The Company holds investment grade credit ratings from all three major international rating agencies
- In 2Q 2019 Nornickel revised terms of a number of bilateral loans, which allowed to extend the duration of the debt totalling USD 637 million by more than 2.5 years, while keeping average cost of debt portfolio unchanged
- Optimization of debt portfolio enabled to reduce interest paid by 23% to USD 202 mln in 1H 2019 (vs 1H 2018)

[USD bn] 8.1 4.6 2.9 2.2 2.0 3.5 1.5 0.1 2019 2020 2021 2022 2023 +Liquidity position Available credit lines Cash Debt repayments

Changes in Debt Structure



Note: 1. RUB loans with currency swap applied disclosed as USD loans



On Target to Reduce Annual Cash Finance Costs by Almost USD200 mln

Dynamics of Gross Debt (1)



Almost USD200 mln Since 2017



Reduction of Cash Finance Costs...

- ... despite growth in base interest rates (LIBOR) in 2017-2018
- ... despite an increase in the average gross debt
- ... owing to successful restructuring of debt portfolio and improvements of terms with main debt providers

Note: 1. In 2017-2018, gross debt includes only financial lease liabilities , starting from 2019 it additionally includes other lease liabilities recognized under IAS 16

Projects Update



Key Upstream Project of Polar Division – Skalisty Mine Development



Project Description

- Total production capacity: 2.4 Mtpa by 2024
- Ore reserves: 66 Mt
- Capex for 2019: US\$0.1 mln
- Remaining Capex for 2019-2023 of US\$0.8 bn
- Total Capex of US\$2.2 bn



Project Timeline

- Commissioned mining capacity in 2016-2018 1.4 mtpa
- Expected ore production in 2019 of 2.3 mtpa
- Completion of ventilation shaft #10 construction and supporting infrastructure scheduled in 2019
- Completion of skip-cage shaft #1 sinking and supporting infrastructure scheduled in 2020
- Pre-feasibility study for autonomous mining at 2km deep



Kola Nickel Refinery Upgrade – Status Update

Gas Compression Line



Copper Separation Line



Project Description

- Project target: increase the nickel refining capacity from 165 ktpa to 190 ktpa by 2020
- Modernization of Tankhouse-2 with 20% capacity increase (from 120ktpa to 145 ktpa)
- Project other effects:
 - increase in nickel recovery from high-grade matte by over 1.0%
 - Optimization of the work-in-progress inventory
 - Reduction of environmental footprint
- Capex for 2019: ~ US\$100 mln
- Total Capex of US\$450 mln

Project Update

- Current status ~ construction at 100%
- Hot-commissioning launched (50% of cells at full capacity)
- Full design capacity and parameters by year-end 2019



Environmental Project at Kola: Optimization of Smelting Operations





Project Description 圜

- Target: reduction of Sulphur dioxide emissions at the Norwegian border by 50% by 2020 vs. 2015
- Shut down of ore-thermal furnace in the smelter shop
- Sales of low-grade concentrate to third parties
- Total Capex of US\$90 mln

Project Highlights

- Construction of flotation circuit to split ore concentrate into low-grade and high grade concentrates
- Construction of the copper-nickel concentrate loading point
- Decommission of smelting furnace #3

Project Timeline

- Production of concentrate and concentrator precommissioning launched in June
- Full construction completion



Current Status of the Sulphur Project at Polar Division







Project Description

- **Target:** reduction of Sulphur dioxide emissions in Norilsk industrial area at least by 75% by 2023 vs. 2015
- Nadezhda Smellter: construction of new converters replacing converter furnaces of Copper Smelter; construction of Sulphur Capture and sulphuric acid neutralization
- Copper Smelter: construction of Sulphur Capture and elementary sulphur production
- Total Capex of US\$2.5 bn

Project Highlights

- Preparation of engineering project documentation and application for the government regulator (Glavgosexpertisa) approval in 2019
- Start of construction and installation works in 4Q 2019
- Project completion in 2022



📆 Project Timeline

- Preparation of construction sites and dismantling of structures in progress at Copper Plant and Nadezhda Smelter
- Tender process to select construction contractors and technological equipment suppliers for the projects at Copper Plant and Nadezdha Smelter is under way



3rd Stage of Talnakh Concentrator Upgrade

) Location



Project Rationale

- Unlocking Norilsk region resource potential requires concentrator capacity expansion
- Current Talnakh Concentrator design allows installation of additional equipment without construction of major new buildings
- New technology has been proven at 2nd Stage of the Concentrator Upgrade
- Reduction of transportation costs as all of Talnakh ores will be treated at Talnakh concentrator

Project Description

- Capacity increase to 18.0 Mtpa from 10.2Mtpa
- Capex in 2019-2022 of RUB40 bn (approximately US\$0.6 bn)

Project Timeline

- Start of construction in 2019
- Production launch in 2023

Droject Update

 Tenders for the selection of equipment suppliers and construction contractors are in progress



South Cluster Development Update



🔅 Project Rationale

• Large PGM asset at the bottom of the global PGM cost curve

Estimated resources for new development ⁽¹⁾:

Ore reserves: 165 Mt (of disseminated ore)

PGMs - >20 Moz

Cu – >447 kt

Ni – >365 kt

South Cluster on the global PGM cost curve, Operating Costs², US\$/4E oz





- Leverage existing infrastructure
- Open pit operations with potentially staged development

Project Description

- Mined ore: 9 Mtpa
- Additional annual production: 20t of PGMs (approximately 640 koz of PGMs)
- Capex in 2019-2022 of RUB45 bn (approximately US\$690 mln)

Project Timeline

- Ramp-up expected to start in 2021-2022
- Full production capacity by 2027

Project Highlights

- Stripping works commenced in May 2019 and is on schedule
- Feasibility study completion is scheduled for 1Q 2020

Source: SFA Oxford

Note: 1. Subject to audit, salable metal; 2. Cash costs reduced by revenue from co-products (ruthenium and iridium) and by-products (copper and nickel). Cost curve doesn't include Talnakh



Infrastructure Projects: Modernization of Power Generation

Norilsk Nickel is 100% self-sufficient in power generation in Norilsk, sourcing energy from captive plants, of which 44%⁽¹⁾ is renewable energy



Thermal



Hydro power plants



Total Capacity



Project Description

- Project target: maintain the share of renewable power generation at current levels
- Expansion of installed generating and transformer capacity
- Replacement of turbines and introduction of an automated dispatch system at Ust-Khantayskaya hydro power plant (HPP)
- Replacement of power units at a thermal plant (TPP)
- Total Capex for 2018-2022 of US\$800 mln



Project Timeline

- Capex for 2019: US\$200 mln
- 2019 progress: one turbine replaced at Ust-Khantayskaya hydro power plant (HPP) and one of power-generating units is being replaced at TPP-2



Bystrinsky Project Update



Project Description

- The concentrator was fully commissioned in August
- Supporting infrastructure expected to obtain government's approval (Rostechnadzor) by the year-end 2019
- The project is on track to reach full operating capacity in 2020
- Ore reserves: 341 Mt, grades: Cu ~0.7%; Fe ~21%; Au ~0.9 g/t ⁽¹⁾
- New jobs: 2,000 people



Operating Performance Outlook

| | | 2018 | 2019E | 2020E |
|-----|-----------------|------|---------|---------|
| Ore | Mt ³ | 4 | 8 | 10 |
| Cu | kt ² | 19 | 40-45 | 55-60 |
| Au | t ² | 3.0 | 6.0-6.5 | 7-7.5 |
| Fe | mt ² | 0.4 | 1.3-1.4 | 1.9-2.1 |

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Note: 1. According to the Russian classification (A+B+C1+C2), 2. Metals in concentrate : Cu (in concentrate), Au (in Cu, Au concentrate), Fe (magnetite concentrate), 3. Ore processed

Production Guidance for 2019-2020 ⁽¹⁾



Temporary decrease in Cu production is expected in 2021-2023 due to secondary feedstock depletion, with mined feedstock volumes expected to recover by ~2024-2025



Strategic Targets for 2025+ Metal Production ⁽¹⁾



Assuming the development of both Talnakh and South Cluster growth projects

Note: 1. Metals produced from own feedstock (including metals in saleable semi-products),), excluding production of Bystrinsky project and Nkomati



2019 Outlook



CAPEX

Annual capex 2019 is expected at up to USD2.2 billion⁽²⁾

Pt ↗

Pd 7

Market to remain in surplus, jewelry demand to stabilize, potential supply rationalization still feasible

major markets and flattish primary supply. No evidence of platinum

substitution due to technical barriers



646-670

Pt (koz)



