

Long-term Price Forecast of Nickel Industry



OBJECTIVES

The client is a stainless steel production company that is highly concerned about the price of NPI, a raw material. At the same time, As NPI gradually develops overcapacity, the client wants to know the price trend of NPI in the next few years.

PROCESS

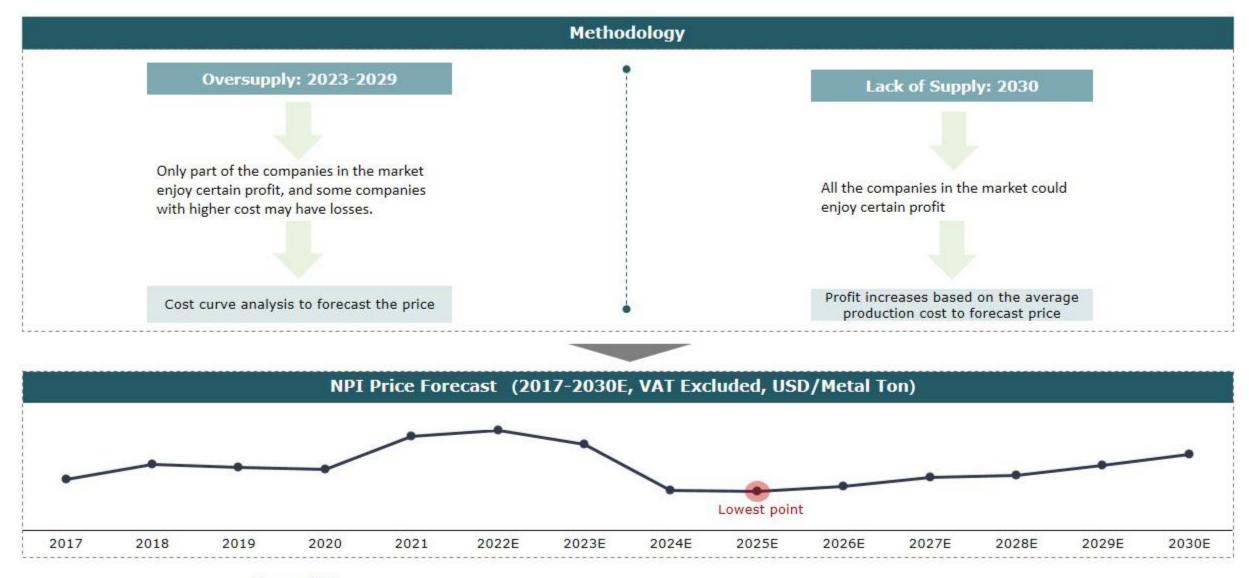
- Methodology
 - Using the NPI supply/demand balance to determine the overall trend
 - Plotting future cost curves for major NPI companies to finalize accurate pricing through demand
- Sample Size
 - ► NPI (30), Stainless Steel (10)
- Project Time
 - ▶ 8 weeks

DELIVERABLES

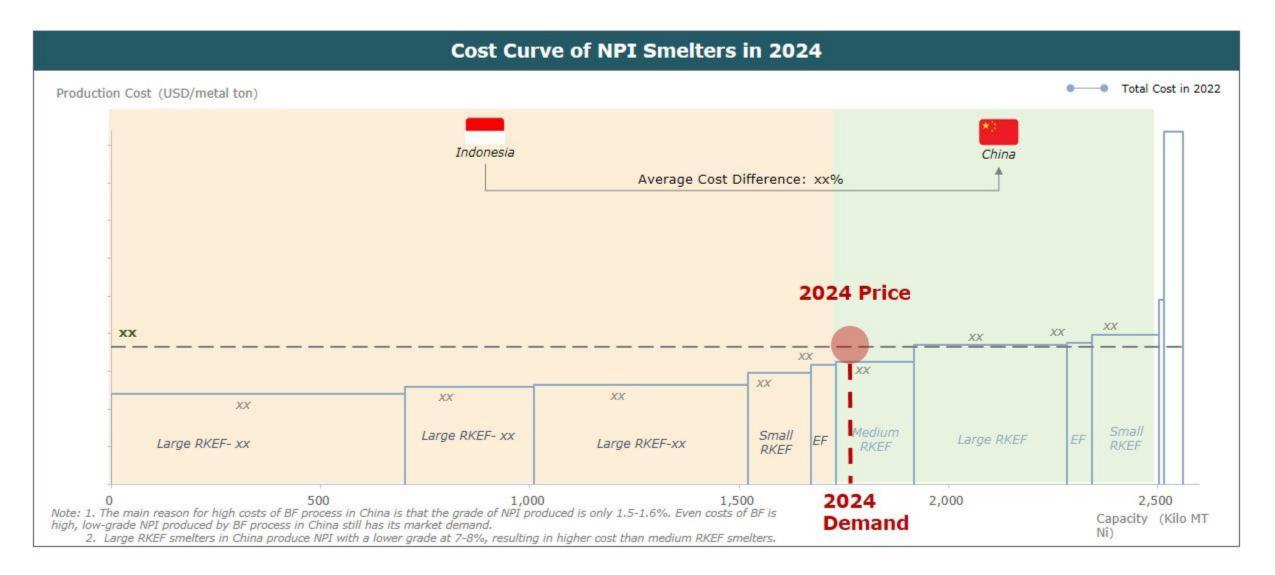
- Global supply and demand balance of NPI, 2017-2030E
 - Forecast of NPI capacity and production, 2017-2030E
 - Forecast of NPI demand, 2017-2030E
- NPI Price Forecast, 2017-2030E
 - Supply and demand
 - Policy
 - Macro economy
- Cost Curve of NPI Smelters, 2017-2030E
- Gross Profit Forecast, 2023-2030E

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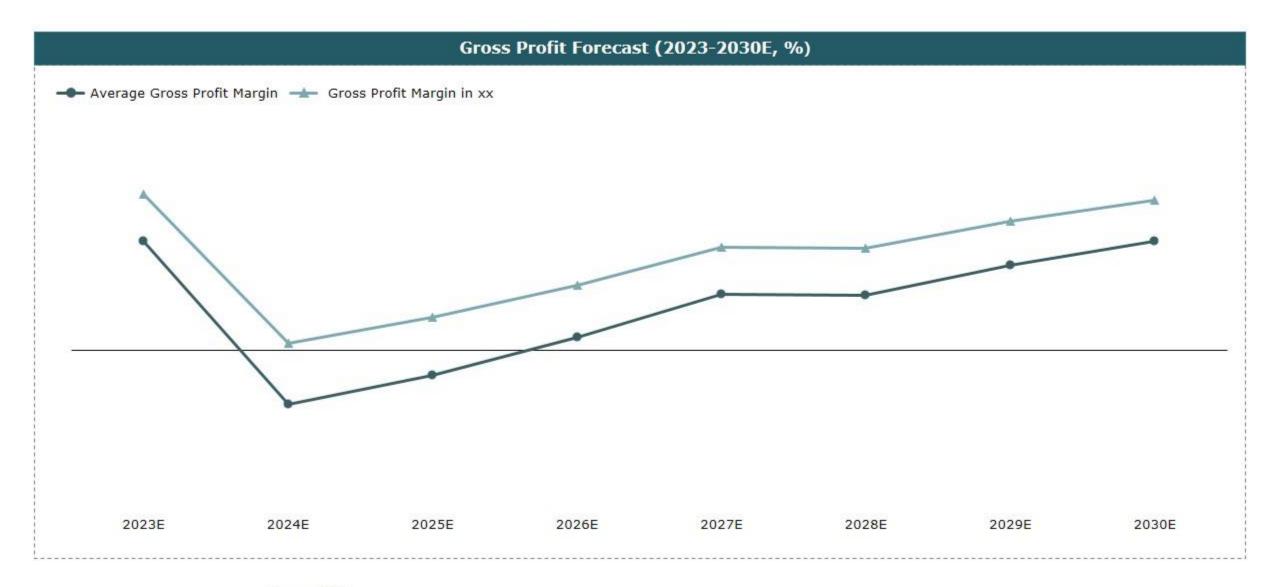
NPI Price Forecast



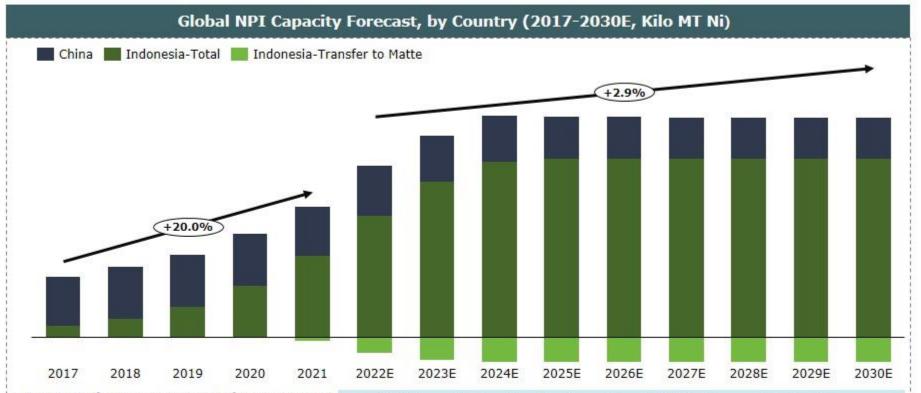
Cost & Price Forecast

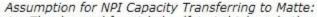


Profit Analysis



Supply Forecast





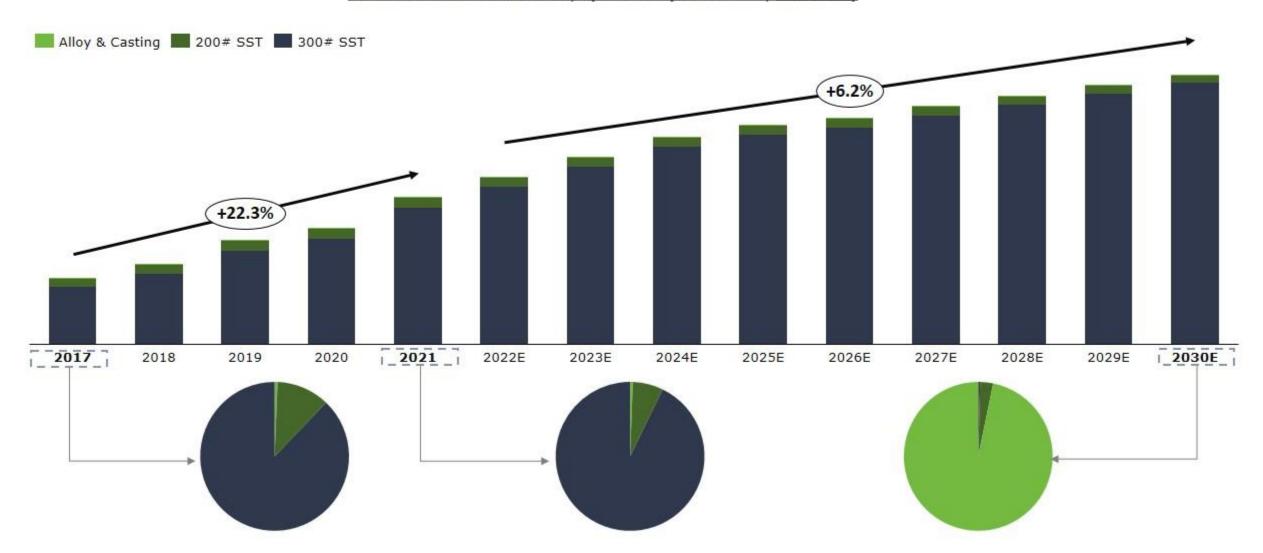
- The demand for nickel sulfate is high and other raw materials such as MHP is not enough for nickel sulfate demand
- Oxygen-Rich Side Blow processing technology is expected to be medium competitive comparing with the Tsingshan technology
- The transfer is not expected to turn back due to oversupply situation of NPI till 2030
- Both China and Indonesia will enter a plateau in 2025 after a period of rapid expansion in Indonesia from 2017 to 2024.
- Capacity in China is shrinking, while capacity in Indonesia is gradually expanding, mainly due to the guidance of Indonesia's mining ban policy.
- Due to lack of other raw materials of Nickel sulfate, such as MHP, in 2023 and 2024, the capacity transferring from NPI to nickel matte is expected to increase. Since 2025, the supply of other raw materials is expected to be enough for nickel sulfate, unless the demand of nickel sulfate increases beyond expectation.

Capacity Breakdown in Indonesia (2017,2021, 2030E) Company A Company B Company C 2017 2021 2030E

- From 2017 to 2021, the market structure has evolved from a monopoly by xx to oligopoly by xx and xx.
- Small players are also expected to take more market shares by 2030E, comparing with 2021.

Demand Forecast

Global Total Demand Forecast, by End Use (2017-2030E, Kilo MT Ni)



Cost Comparison

