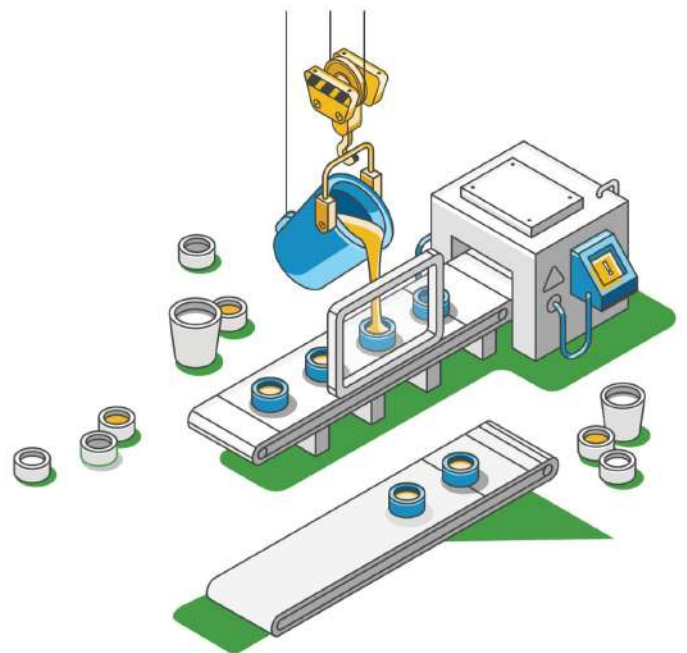
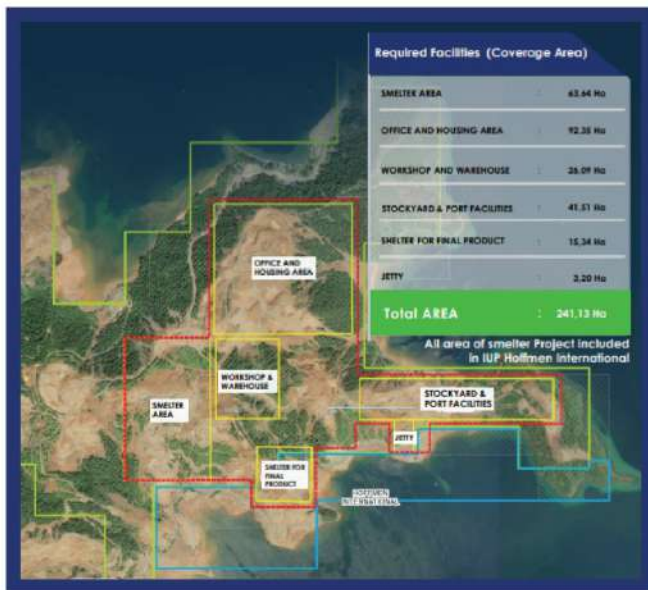


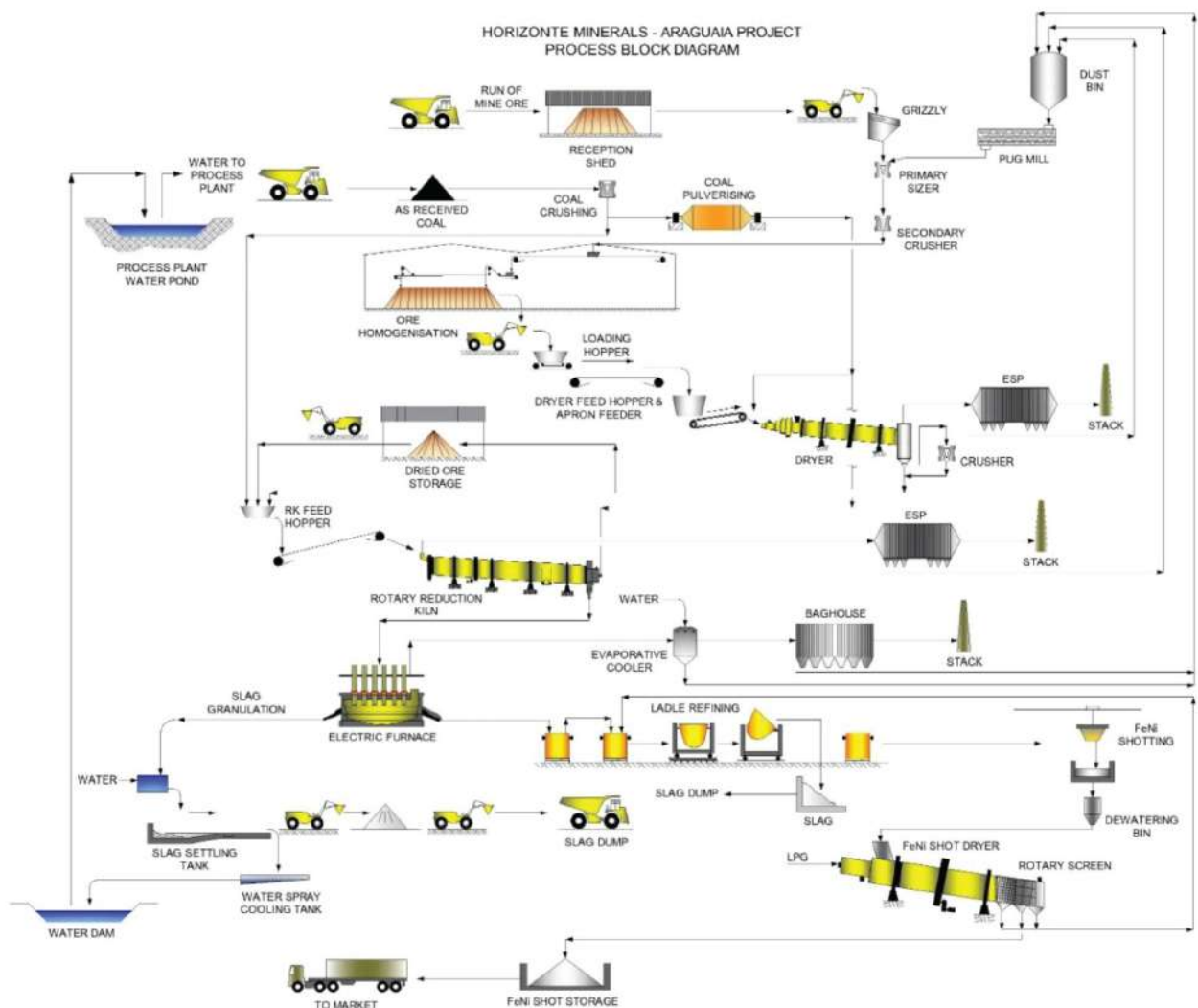
SITE MAP

NORTH MOROWALI SMELTER FERRONICKEL



RKEF PROCESS

(ROTARY KILN ELECTRIC FURNACE)



GOVERNMENT SUPPORT



INVESTMENT POLICY



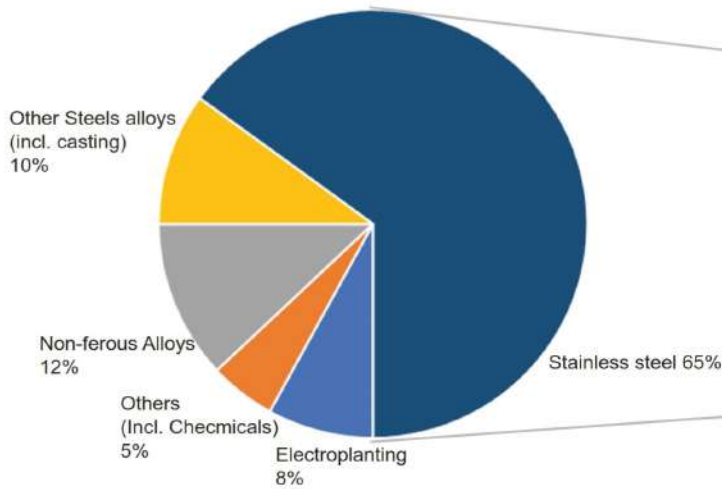
SMELTER FERRONICKEL PROJECT CONTRIBUTION



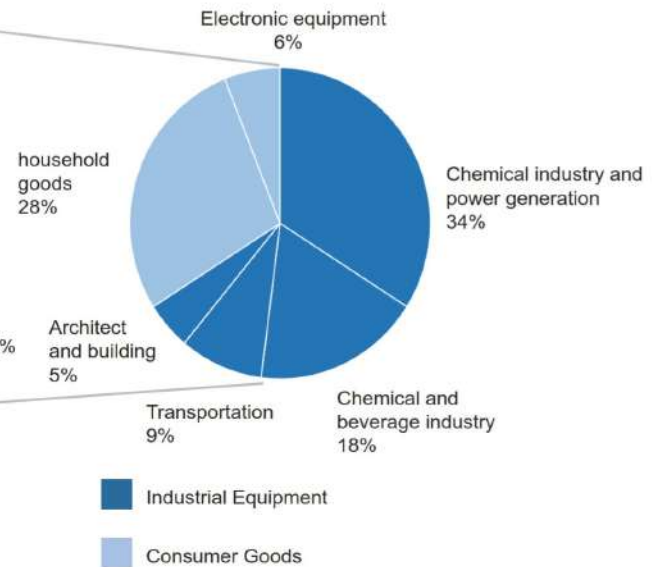
MARKET ASPECT

(FERRONICKEL/STAINLESS STEEL)

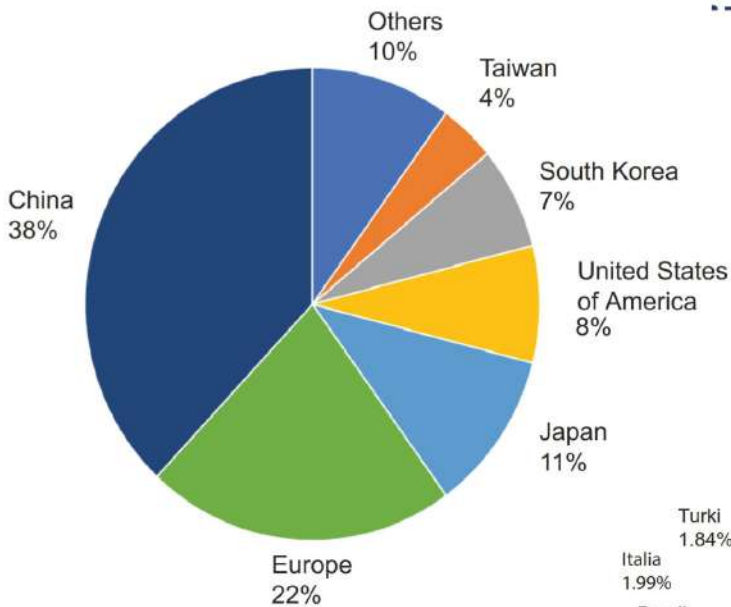
Nickel Metal Usage



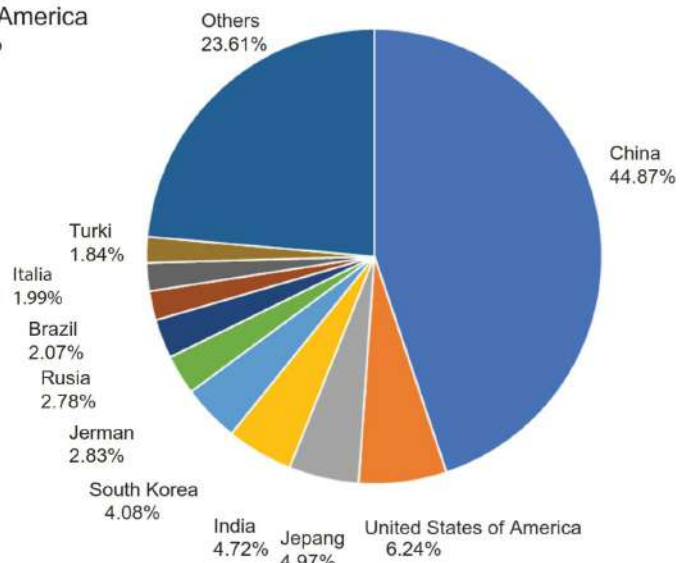
Utilization of Stainless Steel



Ferronickel Market Demand Aspects



Aspects of Stainless Steel Market Demand



LOCATION



CENTRAL SULAWESI

AVAILABILITY OF RESOURCES AND RESERVES OF NICKEL ORE

244.035.149 MT

MEASURED (FROM 8 IUP)

67.804.742 MT

SHOWED

55.102.929 MT

BOUGHT

121.127.478 MT

NUM	POTENTIAL SUPPLIERS	AREA (HA)	%
1	Sumber Swarna Pratama	2,641	23 %
2	Cocoman	190	2 %
3	Integra Technology Nusantara	637	6 %
4	Cahaya Murni Sejahtera	5,482	48 %
5	Cipta Utama Maranti	199	2 %
6	Bintang Fajar Global	1,209	11 %
7	Gema Ripah Pratama	145	1 %
8	Bintang Fajar Global	756	7 %
TOTAL		11,259	100 %

Source: RKAB Data 2020, Central Sulawesi Province ESDM

Description:

*Some nickel mining companies are not operating due to export restriction regulations based on Law No. 3 Year 2020

SMELTER FERRONICKEL UNTUK INDUSTRI BAJA STAINLESS MOROWALI UTARA - PROVINSI SULAWESI TENGGARA

WHY INVEST ?

PROFILE PROYEK MOROWALI UTARA

PROFIL PROYEK

ROTARY KILN ELECTRIC FURNA

INVESTASI PROYEK
USD 360.350.000

NPV : USD 150.184.867
IRR : 15,29%
PBP : 8,26 tahun

PROYEK

PENGOLAHAN FERRONICKEL (FENI)
KAPASITAS 350.000 MT/TAHUN

Feed Stock : 3,5 juta ton bijih nikel /tahun
Kebutuhan Energi Listrik : 150MW
Fasilitas Pelabuhan : 3,2Ha

LOKASI PROYEK

Desa Ganda-Ganda, Kecamatan Petasia,
Kabupaten Morowali Utara
Kontak: DPMPPTSP Morowali Utara / (0451) 4017 755

LUAS KAWASAN

242,13 Ha

STATUS LAHAN

Area Penggunaan Lain
Berada di Area Peruntukan Pertambangan
Elevasi 20 - 100 mdp



AKSESIBILITAS

± 2 km from the nearest mine to the Jetty port
± 20 km to the capital city of North Morowali
± 100 Km from Capital city of North Morowali to Morowali airport
± 1 Hour From Nearest Public Port in Capital City.
± 6,8 Nautical Miles to Main Port
± 7,9 Nautical Miles to PERTAMINA Gas Station Port
± 26,8 km to Kolondale Diesel Power Plant (4,5 MW)



Jakarta (Soekarno-Hatta) - Morowali (Bandara Morowali) 4-5 Jam
(Transit Makassar) - Bandara Morowali - Lokasi Proyek 4-5 Jam Jalur Darat
(Transit Palu) - Bandara Morowali - Lokasi Proyek

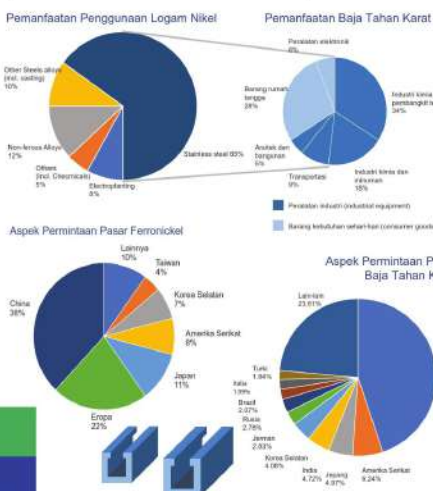
KEBIJAKAN BERINVESTASI



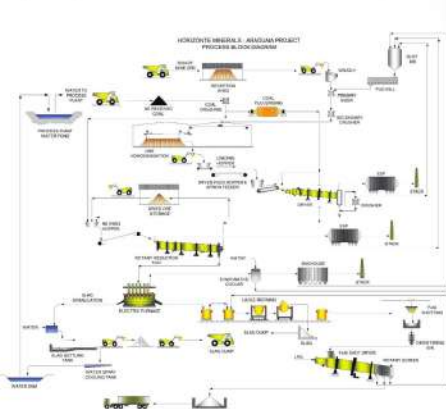
KONTRIBUSI PROYEK SMELTER FERRONICKEL



ASPEK PASAR (FERRONICKEL/STAINLESS STEEL)



RKEF PROCESS (ROTARY KILN ELECTRIC FURNACE)



DUKUNGAN PEMERINTAH



SULAWESI TENGAH		KETERSEDIAAN SUMBER DAYA DAN CADANGAN BIJAH NIKEL	244.035.149 MT
TERUKUR (DARI 8 IUP)			67.804.742 MT
TERUNJUK			55.102.929 MT
TEREKA			121.127.478 MT

NO	PEMASOK POTENSIAL	AREA (HA)	%
1	Sumber Swarna Pratama	2,641	23 %
2	Cocoman	190	2 %
3	Integra Technology Nusantara	637	6 %
4	Cahaya Murni Sejahtera	5,482	48 %
5	Cipta Utama Maranti	199	2 %
6	Bintang Fajar Global	1,209	11 %
7	Gema Ripah Pratama	145	1 %
8	Bintang Fajar Global	756	7 %
TOTAL		11,259	100 %

Sumber: Data RKAB 2020, ESDM Provinsi Sulawesi Tengah
Keterangan:
*Beberapa perusahaan pertambangan nikel tidak beroperasi dikarenakan regulasi pembatasan ekspor berdasarkan Undang-Undang No.3 Tahun

REGIONAL SMELTER
NORTH MOROWALI
SOUTH EAST SULAWESI PROVINCE

**SMELTER FERRONICKEL FOR
STAINLESS STEEL INDUSTRY**

INVESTMENT OPPORTUNITIES MAP
OF STRATEGIC PRIORITY PROJECT
REGIONAL SMELTER

NORTH MOROWALI PROFILE PROJECT

PROFILE PROJECT ROTARY KILN ELECTRIC FURNA

PROJECT INVESTMENT USD 360.350.000

NPV : USD 150.184.667
IRR : 15,29%
PBP : 8,26 tahun

PROJECT FERRONICKEL (FENI) TREATMENT CAPACITY 350.000 MT/YEAR

Feed Stock : 3,5 million ton nickel ore/year
Electrical Energy Needs : 150MW
Port Facility : 3.2Ha



DESCRIPTION :

- District Boundaries
- National Path
- Airport
- Port
- River Line
- Sea Line



PROJECT LOCATION

Ganda-Ganda Sub-District, Petasia District,
North Morowali Regency
Contact: DPMPTSP of North Morowali / (0451) 4017 755



AREA

242,13 Ha



LAND STATUS

Other Use Areas
Located in Mining Designated Area
Elevation 20 – 100 mdpl



ACCESSIBILITY

± 2 km from the nearest mine to the Jetty port
± 20 km to the capital city of North Morowali
± 100 Km from Capital city of North Morowali to Morowali Airport

± 1 Hour From Nearest Public Port in Capital City.
± 6,8 Nautical Miles to Main Port
± 7,9 Nautical Miles to PERTAMINA Gas Station Port
± 26,8 km to Kolonedale Diesel Power Plant (4,5 MW)



Jakarta (Soekarno-Hatta) - Morowali (Morowali Airport) 4-5 Hours
(Transit Makassar) - Morowali Airport - Project Location 4-5 Hours by Land Route
(Transit Palu) - Morowali Airport - Project Location