Chandra Asri

COMPANY OVERVIEW

Chandra Asri – *Your Growth Partner*

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Chandra Asri

Company Profile

1

About Us

Chandra Asri Group (or “Chandra Asri”) is a **Southeast Asia’s leading energy, chemicals and infrastructure solutions company**. Currently, having the **largest integrated petrochemical complex** in Indonesia and operates the country’s only Naphtha Cracker, Styrene Monomer, Butadiene, MTBE and Butene-1 plants, **supported by core infrastructure** assets encompassing energy, water, storage, and logistics, with a new Chlor-Alkali – Ethylene Dichloride (CA-EDC) plant development on the horizon.

VISION

Southeast Asia’s leading energy, chemicals and infrastructure solutions company.

MISSION

Creating value and fostering partnership for a sustainable future.

Chandra Asri Group Business Pillars

Chandra Asri

"Southeast Asia's leading energy, chemicals and infrastructure solutions company"

Energy (11 MTPA)

- **Bukom Refinery**

  Capacity: 237 kilo barrels per day (KBD)

  Product capacity: 8.5 MTPA[1]

- **Condensate Splitter Unit (CSU)**

  Capacity: 70 kilo barrels per day (KBD)

  Product capacity: 2.5 MTPA

  Being Rejuvenated

Chemical (10 MTPA)

- **Ethylene Cracking Complex (ECC)**

  Cracker Capacity: 2 MTPA
  (Bukom 1.1 MTPA, Cilegon 0.9 MTPA)

  Other Products Capacity: 2.5 MTPA
  (Bukom 1.3 MTPA, Cilegon 1.2 MTPA)

- **Downstream Chemical Complex**

  Capacity: 4.7 MTPA
  (Jurong 2 MTPA + ***Newly acquired*** High-density Polyethylene Unit 0.4 MTPA, Cilegon 2.3 MTPA)

- **Chlor-Alkali (CA) & Ethylene Dichloride (EDC) Unit** ***Under Construction COD 2027***

  Capacity: 0.9 MTPA
  (CA 0.4 MTPA, EDC 0.5 MTPA)

Infrastructure

- **Power**

  320 MW combined cycle power plant

  2.2 MWp Solar

  Up to 150kV transmission & distribution

- **Water**

  2,400 Litre per second water treatment plants

  2,800 Litre per second river water source

  5.4 Mn m^3 water reservoir

- **Port & Storage**

  638K m^3 tank storage

  2 jetties with 200 meters length overall

- **Logistics**

  9 multipurpose gas and chemical vessels

Mission: ***Creating value and fostering partnerships for a sustainable future***

1. Million tonnes per annum
2. Plants: Mono-ethylene Glycol (MEG), Styrene Monomer & Propylene Oxide Derivatives
3. Plants: Olefins, Polyolefins, Styrene Monomer, Butadiene, MTBE& Butene-1
4. Kilo tonnes per annum

Operational area located in Cilegon, the leading industrial area in Java, and Singapore

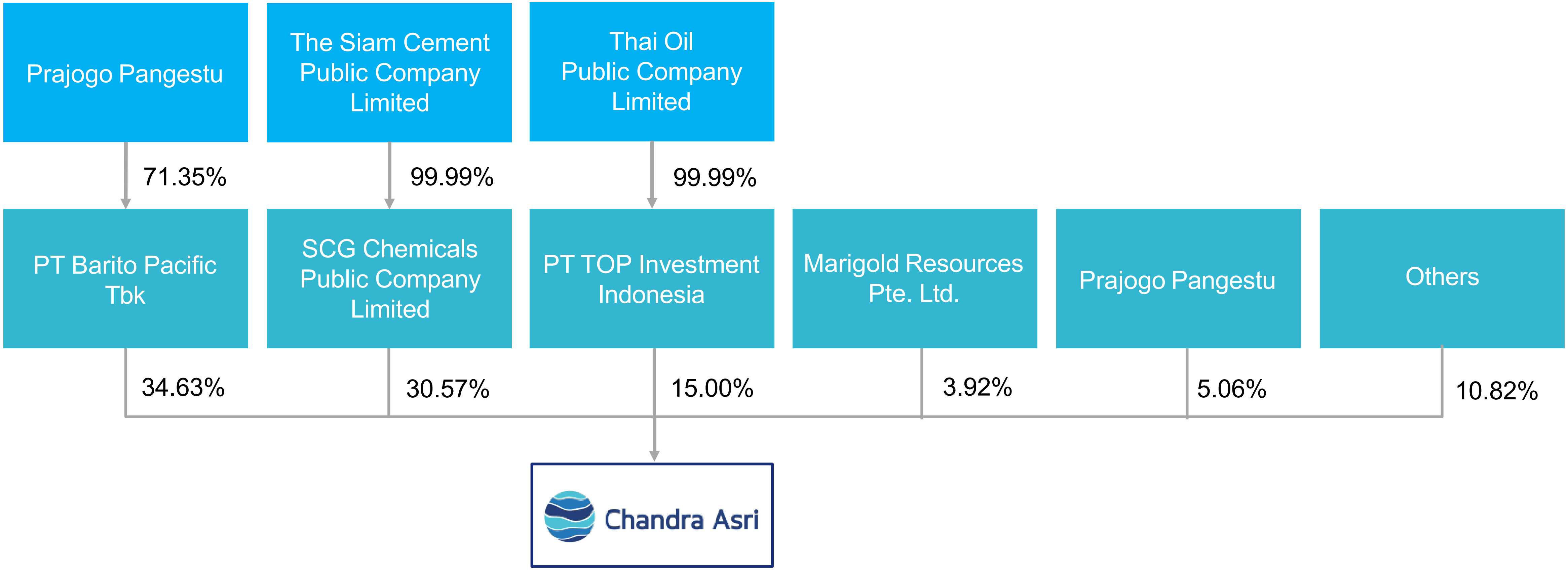
1. Chandra Asri PP Plant
2. Chandra Asri OPE Plant
3. Chandra Pelabuhan Nusantara
4. Nippon Shokubai Indonesia
5. Asahimas Chemical
6. Pelindo II Port
7. Krakatau Bandar Samudera Port
8. Cabot Indonesia
9. Lotte Chemical Titan
10. Indonesia Power (PLTU Suralaya)
11. Sulfindo Adiusaha
12. SMI Plant
13. RPU
14. Gajah Tunggal
15. Polychem Indonesia
16. Arbe Styrindo
17. KCE and CA-EDC plant (coming soon)
18. Aster Chemicals and Energy Pte. Ltd. (Aster)

Located close to and connected with customer facilities

Designated as a National Vital Object

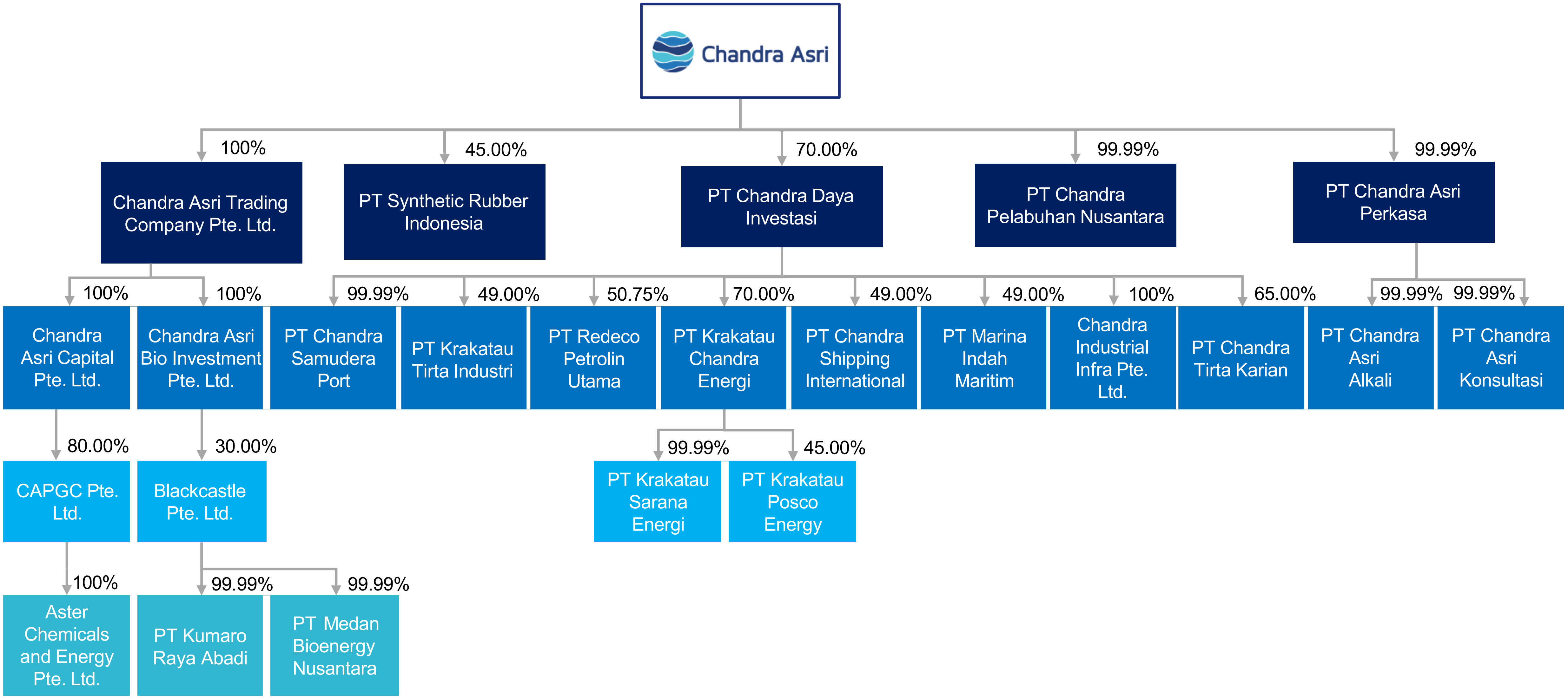
Chandra Asri's Shareholders

Per 08 April 2025



Chandra Asri's Subsidiaries

Per 08 April 2025



Chandra Asri

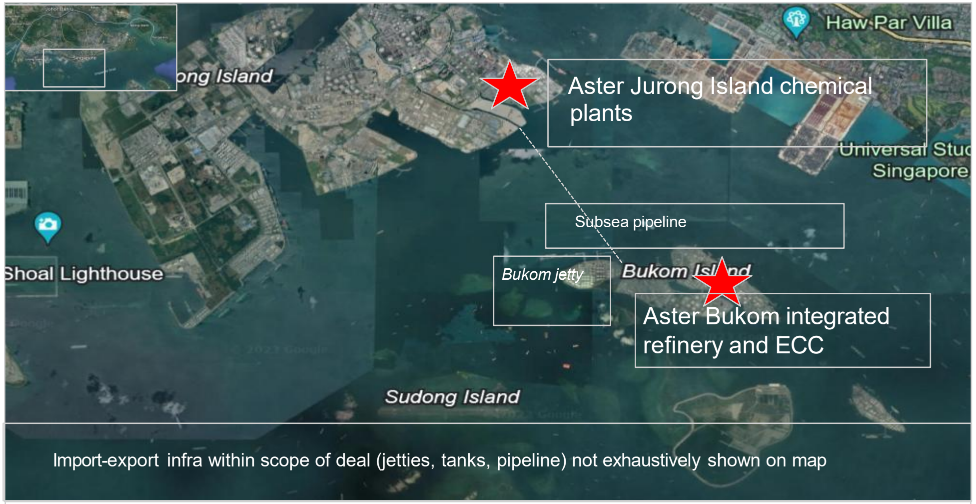
Energy Business

2

Asset Overview

Aster is an integrated refining and chemical asset located on Pulau Bukom and Jurong Island in Singapore

Asset Snapshot



Aster Chemicals and Energy Pte Ltd

- Previously known as Shell Energy and Chemicals Park (SECP)
- Integrated refining and chemical operations in Pulau Bukom and Jurong Island in Singapore
- Includes existing workforce and infra (jetties, tankage, pipeline)
- Approved under Singapore’s Significant Investments Review Act (SIRA), the acquisition underscores strong government support for this high-value strategic asset

Aster's Plant and Infrastructure Overview

Aster is an integrated refining and chemical asset located on Pulau Bukom and Jurong Island in Singapore

Plant overview

Pulau Bukom

Refinery

237 kbd
Crude Processing Capacity

Ethylene Cracker/ECC

1.1 mtpa
Ethylene Production Capacity

Aster Jurong Island (AJI)

Downstream chemicals

SMPO: SM, PO, MPG, Polyols, Differentiated Polyols

MEG: MEG, HPEO, Ethoxylates

Inventory stock value

1.4 kt
Inventory volume of feedstock and products at completion

Infrastructure overview

A **Energy**

174 MW
of electricity generation capacity through cogen and turbines

B **Land**

60 ha of freehold land, debt free

C **Tankage**

192 tanks with total capacity of **~3.2 cbm**

D **Water**

10 special water treatment facilities inc. effluent treatment, waste water treatment, biotreaters and reverse osmosis (RO) waste water recycle

E **Jetties**

13 wharves and **1** SBM

F **Pipeline**

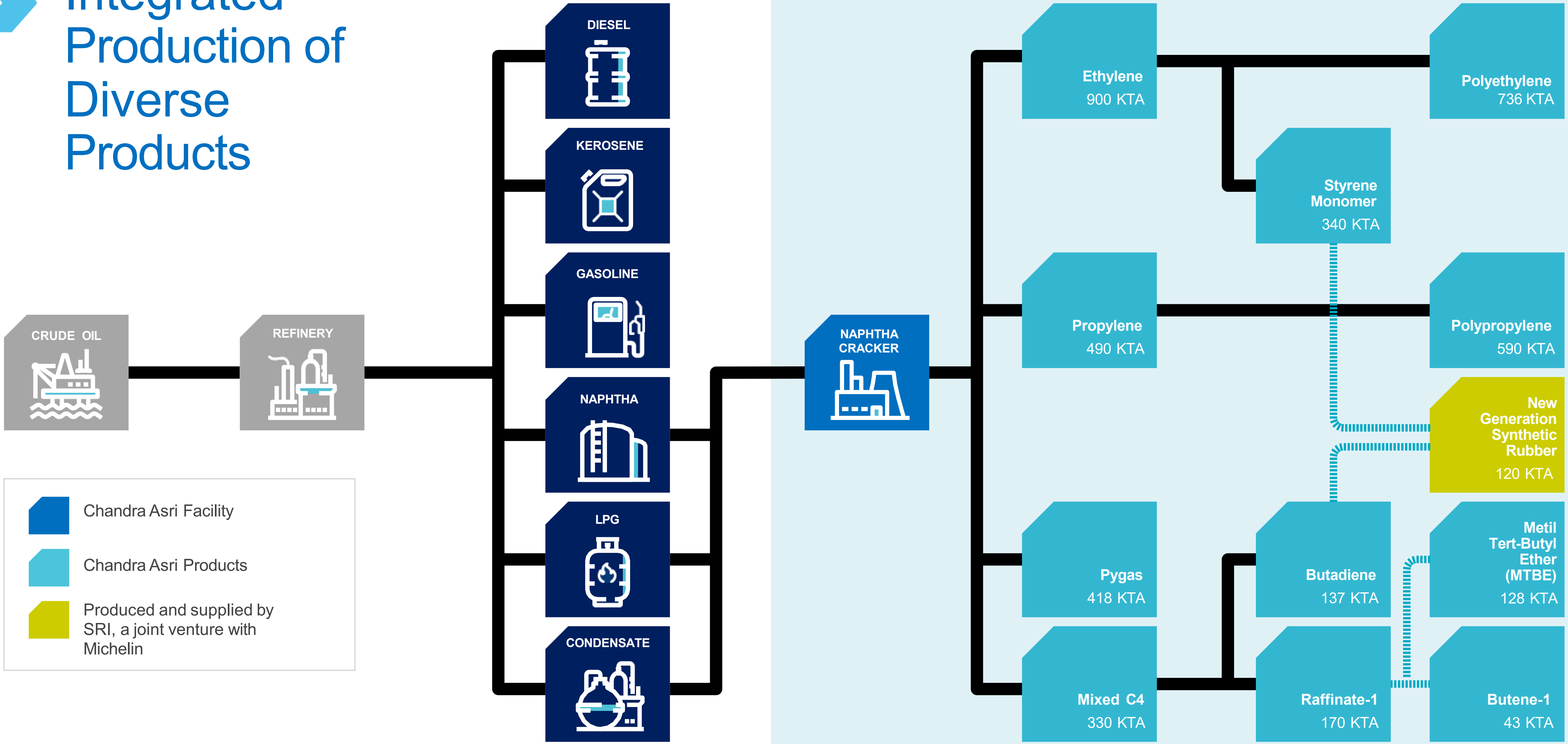
20 subsea pipelines with 7 pipelines to external terminals

Chandra Asri

Chemicals Business

3

Integrated Production of Diverse Products



Supporting Facilities

Co-generation plants

Utilities & facilities

Water facilities

Jetty facilities

Petrochemical Producers in Indonesia

Capacity ('000 tons per year)	Chandra Asri	LOTTE CHEMICAL TITAN	PERTAMINA	Masplene PT POLYTAMA PROPINDO	ASC AGC Group PT Asahimas Chemical	PT SULFINDO ADIUSAHA	TPPI	Others	Total
Ethylene	900	-	-	-	-	-	-	-	**900**
Propylene	490	-	625	-	-	-	-	-	**1,115**
LLDPE	400	200	-	-	-	-	-	-	**600**
HDPE	336	250	-	-	-	-	-	-	**586**
Polypropylene	590	-	45	300	-	-	-	-	**935**
Ethylene Dichloride	-	-	-	-	1,140	420	-	-	**1,560**
Vinyl Chloride Monomer	-	-	-	-	900	125	-	-	**1,025**
Polyvinyl Chloride	-	-	-	-	750	95	-	202	**1,047**
Ethylene Oxide	-	-	-	-	-	-	-	240	**240**
Mono Ethylene Glycol	-	-	-	-	-	-	-	220	**220**
Acrylic Acid	-	-	-	-	-	-	-	140	**140**
Butanol	-	-	-	-	-	-	-	20	**20**
2-Ethylhexanol	-	-	-	-	-	-	-	140	**140**
Pygas	418	-	-	-	-	-	-	-	**418**
Crude C4	330	-	-	-	-	-	-	-	**330**
Butadiene	137	-	-	-	-	-	-	-	**137**
Benzene	-	-	100	-	-	-	207	-	**307**
Para-Xylene	-	-	270	-	-	-	500	-	**770**
Styrene Monomer	340	-	-	-	-	-	-	-	**340**
Synthetic Rubber	120	-	-	-	-	-		75	**195**
Methyl Tert-butyl Ether	128								**128**
Butene-1	43								**43**
Total	**4,232**	**450**	**1,040**	**300**	**2,790**	**640**	**707**	**1,037**	**11,196**

Chandra Asri offers the most diverse product range and is a dominant producer with market share of approximately 50%, 40%, and 32% of the domestic market (including imports) in Olefins, Polyethylene and Polypropylene, respectively.

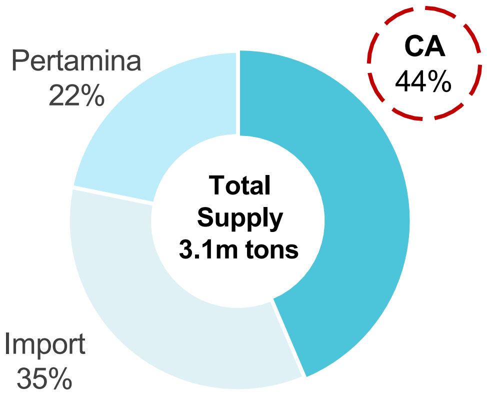
Sources: Company, ICIS, Nexant

Chandra Asri is the Country's Market Leader for its Product Portfolio

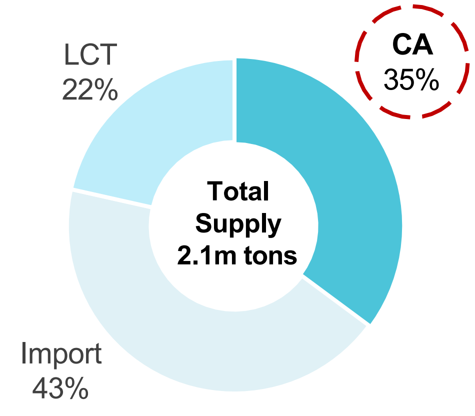
Focus is domestic market as Indonesia is still a net importer for petrochemical products

Largest Petrochemical Company in Indonesia[1]

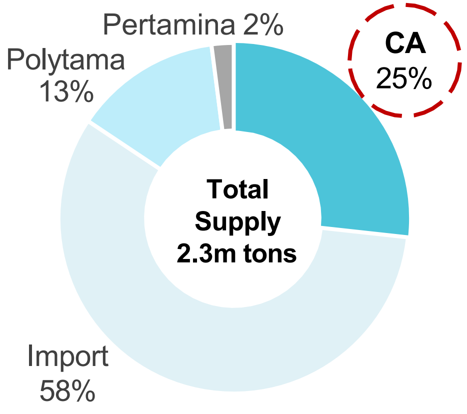
Olefins



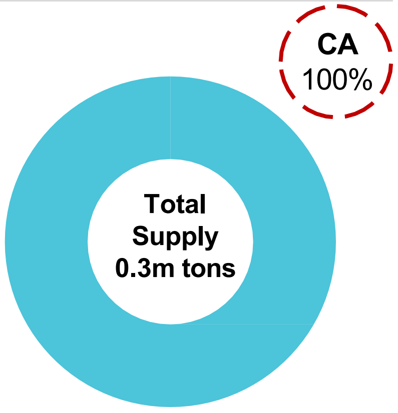
Polyethylene



Polypropylene



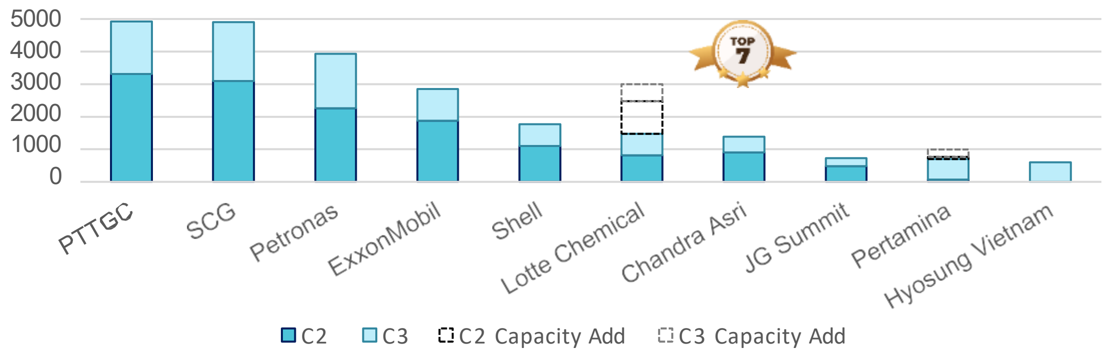
Styrene Monomer



Note:
[1] By production excluding fertiliser producers and including imports

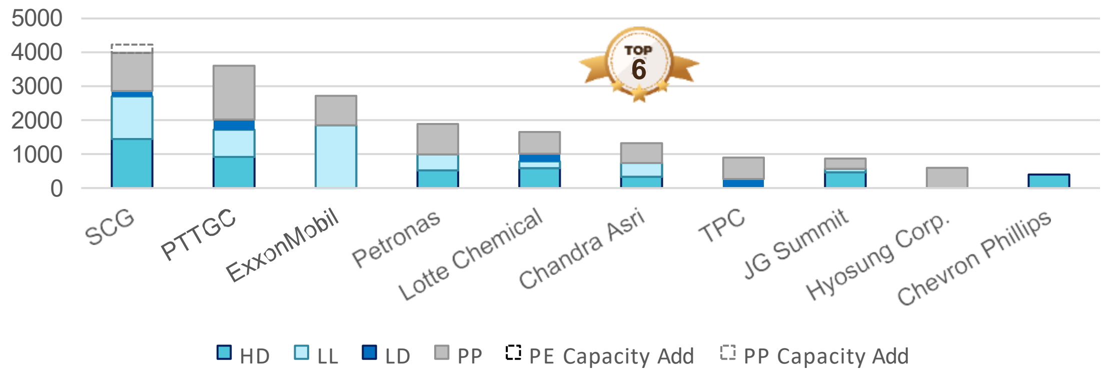
Olefins Top 10 Southeast Asia Producers

('000 tons per year)



Polyolefin Top 10 Southeast Asia Producers

('000 tons per year)



Strong Demand Growth for Petrochemical Products in Indonesia

End Market

Polyethylene

- Plastic Films
- Containers
- Bottles
- Plastic Bags

Polypropylene

- Packaging
- Films & Sheets
- Fibers & Filaments
- Toys
- Automotive Parts

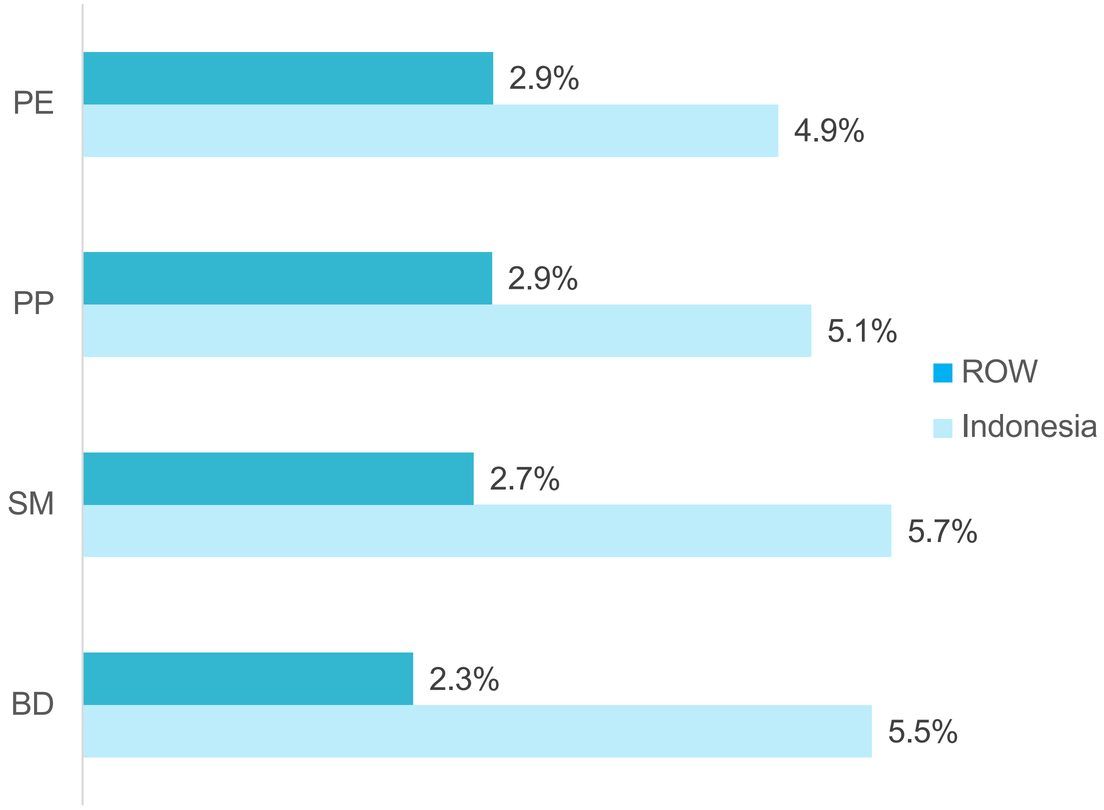
Styrene Monomer

- Drink Cups
- Food Containers
- Car Interiors
- Helmet Padding

Butadiene

- Vehicle Tires
- Synthetic Rubber
- Gloves & Footwear

Total Demand Growth (2024 – 2038F CAGR)



Source: Nexant

Petrochemical products are fundamentals to the production of a wide variety of consumer and industrial applications, such as for packaging, containers, automotive and construction materials.

Expansion to Serve Region's Caustic Soda & EDC Short Market

World-scale CA-EDC plant, aimed to support nickel downstreaming / value chain – a critical component for the growing electric vehicle industry

Chandra Asri through its wholly-owned subsidiary, Chandra Asri Alkali ("CAA"), is developing the CA-EDC plant, which will produce more than 400 KTA of caustic soda and 500 KTA of ethylene dichloride (EDC) to serve the region's short market.

1

Caustic Soda Plant
400 KTA
→ **100%** Domestic →
- Soap & detergent, alumina, nickel (HPAL process)
- Alumina and water treatment industry

2

EDC Plant
500 KTA
→ **100%** Export → VCM-PVC plant (end use application incl. construction & packaging industry)

Current Progress

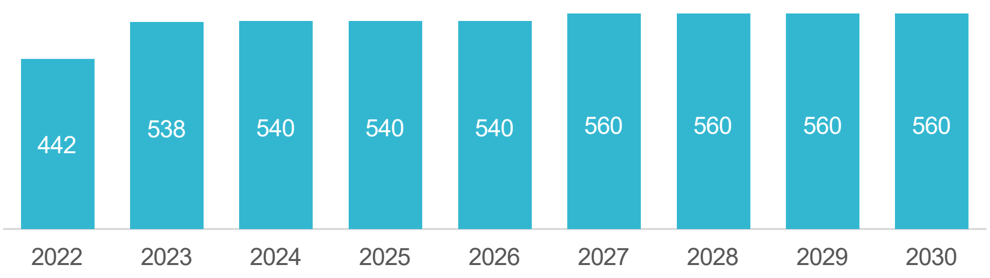
INA Indonesia Investment Authority	AsahiKASEI		Inalum	BCI Minerals
Join forces with INA, Indonesia's sovereign wealth fund, as Chandra Asri embarks on strategic partnership	Appointed Asahi Kasei Corporation (AKC), a world-class Japanese licensor of advanced chlor-alkali technology	Appointed a leading USA vinyl technology licensor to develop an EDC plant	Signed a Letter of Intent (LoI) for potential caustic soda supply to INALUM and possible equity contribution in CAA	Signed a Salt Offtake Agreement with BCI Minerals Ltd

Caustic Soda & EDC Import Balance Overview

Source : IHS Markit, 2024

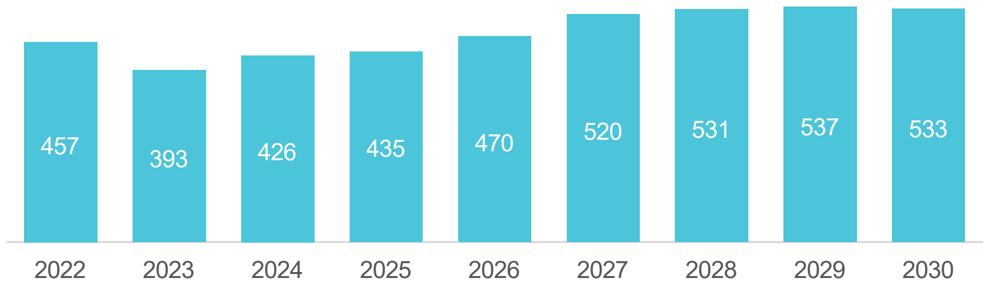
Caustic soda is **short throughout Southeast Asia**, with the Indonesian market short by 540 KTA in 2026.

Indonesia Caustic Soda Import Balance (in KTA)



Southeast Asia EDC production is well under the regional demand, which was equal to ~80% of regional EDC demand and is predicted to become ~90% in the upcoming years.

Southeast Asia EDC Import Balance (in KTA)



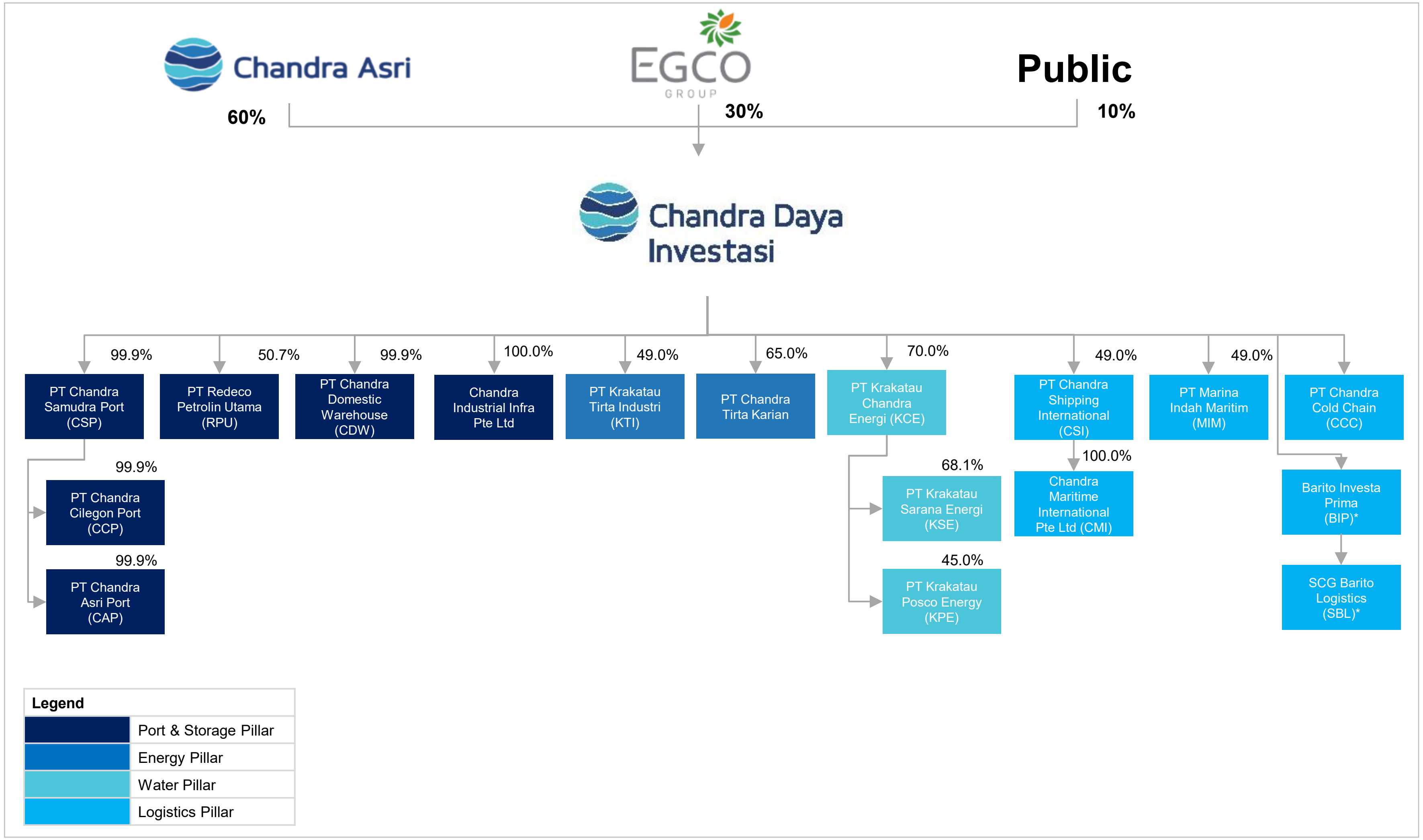
Chandra Asri

Infrastructure Business

4

Chandra Daya Investasi (CDI), the Infrastructure Arm of Chandra Asri Group

Company Structure



Description

- **PT Chandra Daya Investasi (the "Company" or "CDI")** is an infrastructure investment arm of PT Chandra Asri Pacific Tbk, an Indonesian blue-chip market leader in the energy, chemical, and infrastructure industry, and **EGCO**, a leading Power Company listed in Thailand
- Located in Cilegon, Indonesia, CDI was established to **invest in infrastructure business including energy, water, port and storage, and logistics solutions**
- **Cilegon is an industrial hub for chemical and steel production with the highest numbers of existing and upcoming global projects** in Indonesia with the most well-equipped infrastructure

4 Pillars of Chandra Daya Investasi

Chandra Daya Investasi

Energy Pillar

Power generation, distribution, and renewable energy development

A sole distributor of electricity within 2,666 ha in Cilegon, Banten

Water Solution Pillar

Clean and special water treatment with more than 40 years of operation

The largest and only integrated facilities in Indonesia

Port and Storage Pillar

Jetty and tank service for chemical and refined petroleum products

Serving reputable multinational clients

Logistics Pillar

Maritime & land logistics including specialised vessels, trucking, and warehouse management

Serving both the group and external for Southeast Asia market and beyond

Chandra Daya Investasi Key Development Milestones

- Port & Storage
- Energy
- Water
- Logistics

Feb 2023
Establishment of CDI

Feb 2023
Acquisition of KCE and KTI

May 2023
Completion of RPU share transfer to CDI

Jun 2023
Increased shares of KCE in KPE to 45%

Aug 2023
Penetrate EV charging station outside Cilegon

Dec 2023
EGCO became one of CDI shareholders

2024

Feb 2024
Started a 3.2 MWp solar rooftop project in Chandra Asri

Mar 2024
Established CSI as the logistic arm of CDI

Apr 2024
Started KTI's 89 LPS of desal plant in Sumbawa

Jun 2024
CSI commenced vessel operation business (1 vessel)

Aug 2024
Acquisition of MIM

2025

Apr 2025
Established land logistic business through acquisition of BIP

Chandra Daya Investasi

Jul 2025
CDI listed in IDX (IDX: CDIA)

Note:
CAP: Chandra Asri Pacific | **CDI:** Chandra Daya Investasi
CSI: Chandra Shipping International | **KCE:** Krakatau Chandra Energi | **KPE:** Krakatau Posco Energy | **KTI:** Krakatau Tirta Industri | **RPU:** Redeco Petrolin Utama
IPO: Initial Public Offering | **LPS:** litre per second | **MIM:** Marina Indah Maritim

Chandra Daya Investasi Raises USD 145.6 Million with 564x Record IPO Oversubscription

USD 145.6 Mn
Total Offering Value

12.5 Bn shares @ IDR 190

IPO HIGHLIGHTS

430k orders from ~400k investors

564x
oversubscribed, a new IDX record

Asset Information – Energy

Krakatau Chandra Energi has exclusive arrangement underlines the potential for strong business continuity within Krakatau Industrial Area in Cilegon, Banten

Energy Key Businesses and Assets

1 Electricity Generation

- 120 MW CCPP (in operation)
- 200 MW of CCPP (in operation)
- 2.2 mWp Rooftop solar PV

2 Transmission & Distribution

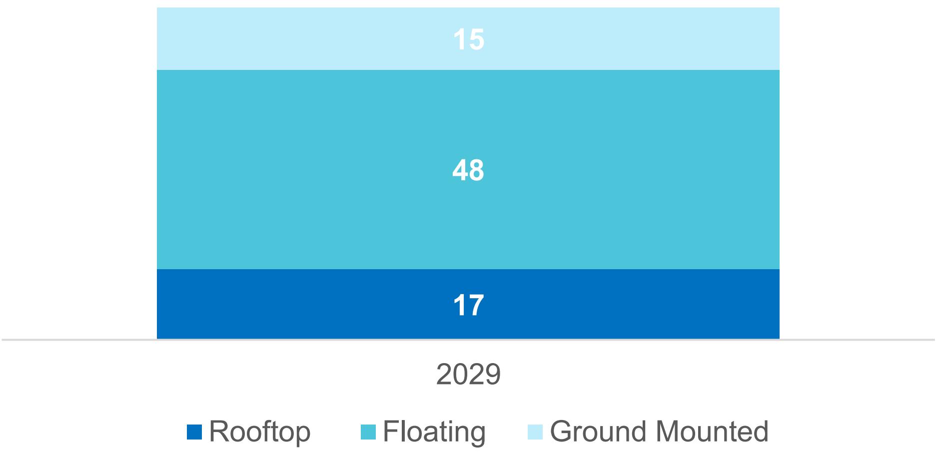
150kV, 30kV, 20kV, 6kV and 0.4kV network underground cable with high reliability

3 Electrical System Service Provider

- EPC solution for T&D, and power generation
- Energy management & monitoring solution
- Operating & Maintenance solution

4 Renewable Energy

Total Capacity in MW



KCE will aim to have a Renewable Energy Business consisting of:

- Rooftop Solar Panel
- Floating Solar Panel
- Ground Mounted Solar Panel

Reliability (hour of outage/customer/year)

KCE maintains 0.10 hour of outage / customer / year and is one of the best reliability performance compared with other players in the Industry. (Indonesia average: 16 hour/customer/year)

Asset Information – Water & Storage

Krakatau Tirta Industri, leading integrated water solutions provider in Cilegon; Redeco Petrolin Utama, integrated intermediary tank rental and jetty management specialist for chemical & petroleum products

Water Key Businesses and Assets

1 Industrial clean water treatment

Sources of Water

Krenceng Dam Capacity
5.4 million m^3

Cidanau River Capacity
5,040 – 25,200 m^3/h (1,400-7,000 lps)

Cipasauran River Capacity
2,880 m^3/h (800 lps)

Treatment Plants

WTP Krenceng
Capacity: 6,480 m^3/h (1,800 lps)

WTP Cidanau
Capacity: 2,160 m^3/h (600 lps)

2 Special water treatment plant

Demin Water
Capacity: 160 lps

Wastewater treatment
Capacity: 414 lps

Desal and Reuse Water
Capacity: 71 lps

Storage Key Businesses and Assets

1 Jetty

- 2 jetties with 200 meters LOA[1] each, suitable for 35,000 DWT vessel with 10 meters draft

2 Tank

- 72 tanks with total capacity of 130,000 m^3

3 Supporting assets

- Centralised Filling Station (CFS) suitable for various types and sizes of road tankers
- Customer Order Service (COS) system for tailored-made product pick-up plans

4 Safety

- International standards of fire and safety, including oil boom to handle any spillage

[1] Length overall

Asset Information – Logistics

Specialised vessels, trucking, and warehouse management for safe and efficient logistics

Maritime Logistics

1 **Entities**

- PT Chandra Shipping International ("CSI") and PT Marina Indah Maritim ("MIM") are shipping companies mainly to support Chandra Asri's business with target to serve external customers starting in 2025

2 **Assets**

- Currently, 11 vessels of chemical and LPG carriers. Aim to have a total of 15 vessels at least by 2026

3 **Future Plan**

- CDI has continuous plan to acquire additional vessels to capture demand from third-party
- In addition, CDI has plan to venture into shipping management business providing crew and other management services to vessel owners

Land Logistics

1 **Core Business**

- Inland Trucking
- Warehouse Management
- Logistics services including inter-island services, se-freight services, import-export services, and customs clearance

2 **Truck Fleet**

- Hundreds of truck fleet and to have a total of 155 trucks in 2025, including sliding box trucks, trailer container trucks, wing box trucks, flat deck trucks, ISO trucks, etc.

3 **Warehouse Management**

- Managing CAP's and other client's warehouse in Cilegon and West Java area

Sustainability

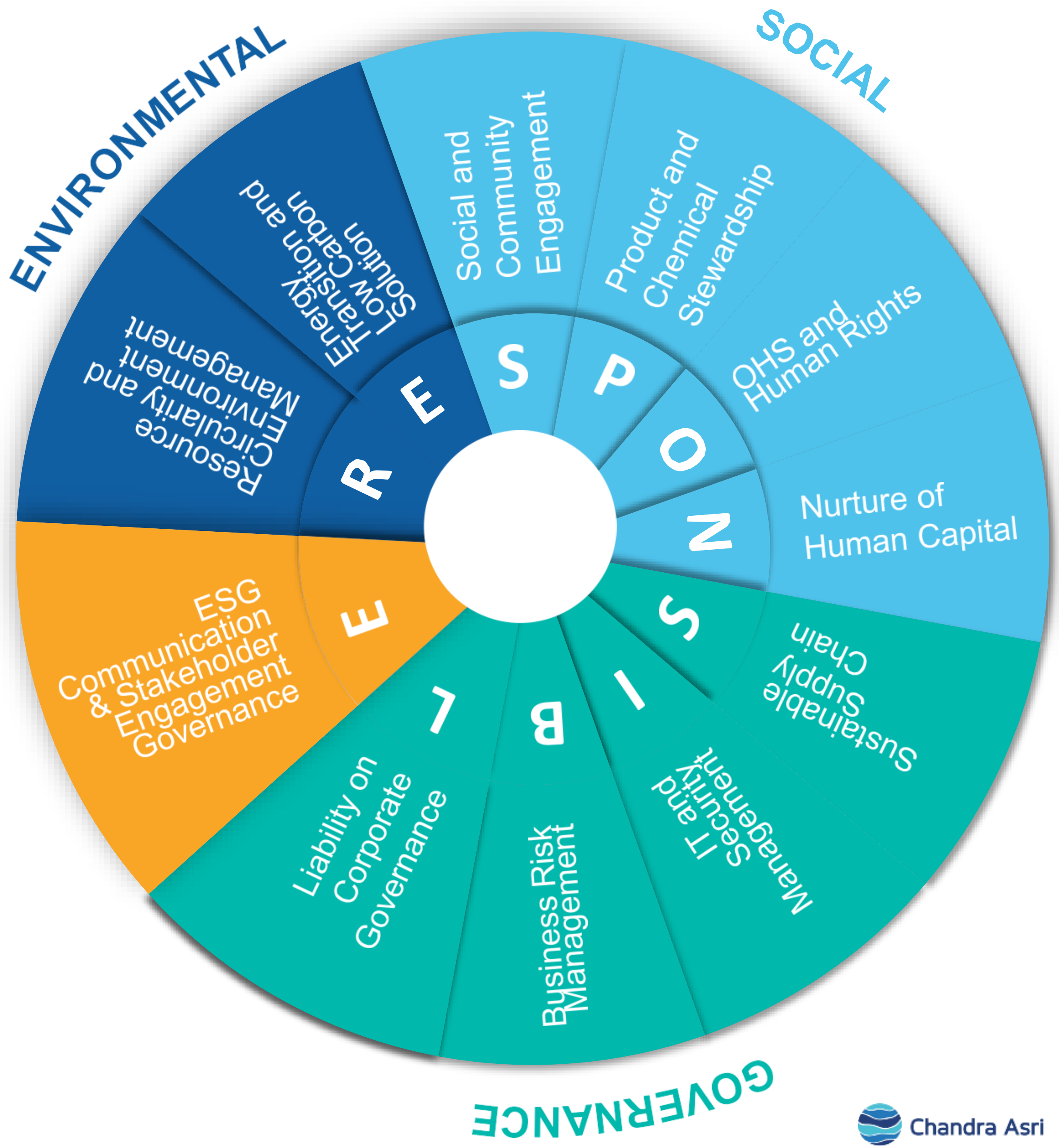
4

Creating Sustainable Future

We established our brand new Sustainability Framework to mitigate risks and seize opportunities from global megatrends in environment; climate change and resource scarcity, and to address the challenge on ranking prioritisation, stakeholder aspirations, and peer benchmarking.

Sustainability Framework

RESPONSIBLE



Our ESG Rating & Recognition

Recognised by leading ESG raters for Chandra Asri's strong commitment to sustainability

CDP DRIVING SUSTAINABLE ECONOMIES	MSCI	SUSTAINALYTICS
Score **B**	ESG Rating **BBB**	ESG Risk Rating **15.0**
B score (Management) means Chandra Asri Group has implemented specific actions to address the climate change issue	Places in the top 20-35% of companies in the commodity chemical sub-sector	Places in the 1st percentile globally in the commodity chemicals sub-industry

2024 Subroto Award in the Contribution to Emission Reduction

Katadata ESG Awards 2024, in the Chemicals sector

Wins 3 Awards at the Global CSR & ESG Summit and Awards 2024

Wins 3 Awards at the 17th Annual Global CSR & ESG Summit & Awards 2025

Strategy & Growth

5

Chandra Asri's Programmatic M&A Strategy Framework

Clear capital discipline under a clear framework

C

CHEMICALS

Aiming to support development of Chandra Asri as Indonesia's leading and preferred chemical company with track record of growth.

CILEGON

Strategically located in Cilegon, Chandra Asri's home base for the past 30 years with proximity to key customers, distribution and logistics networks.

D

DIVERSITY

Exploring different business lines that are tied with Chandra Asri's core competencies, for more varied source of income, to steer clear of dependency on single market dynamics.

DEPTH

Exploration of new opportunities for continuous improvement on efficiency, to strengthen margins and enhance Chandra Asri's overall business franchise with broad-based infrastructure networks.

I

INDONESIA

Initiatives that will benefit Chandra Asri—considering its strong position as the market leader in highly attractive Indonesian and Southeast Asian market.

INTEGRATION

New prospects to support Chandra Asri's existing largest integrated petrochemical complex in Indonesia, and future complex.

Chandra Asri as the Growth Partner of Choice

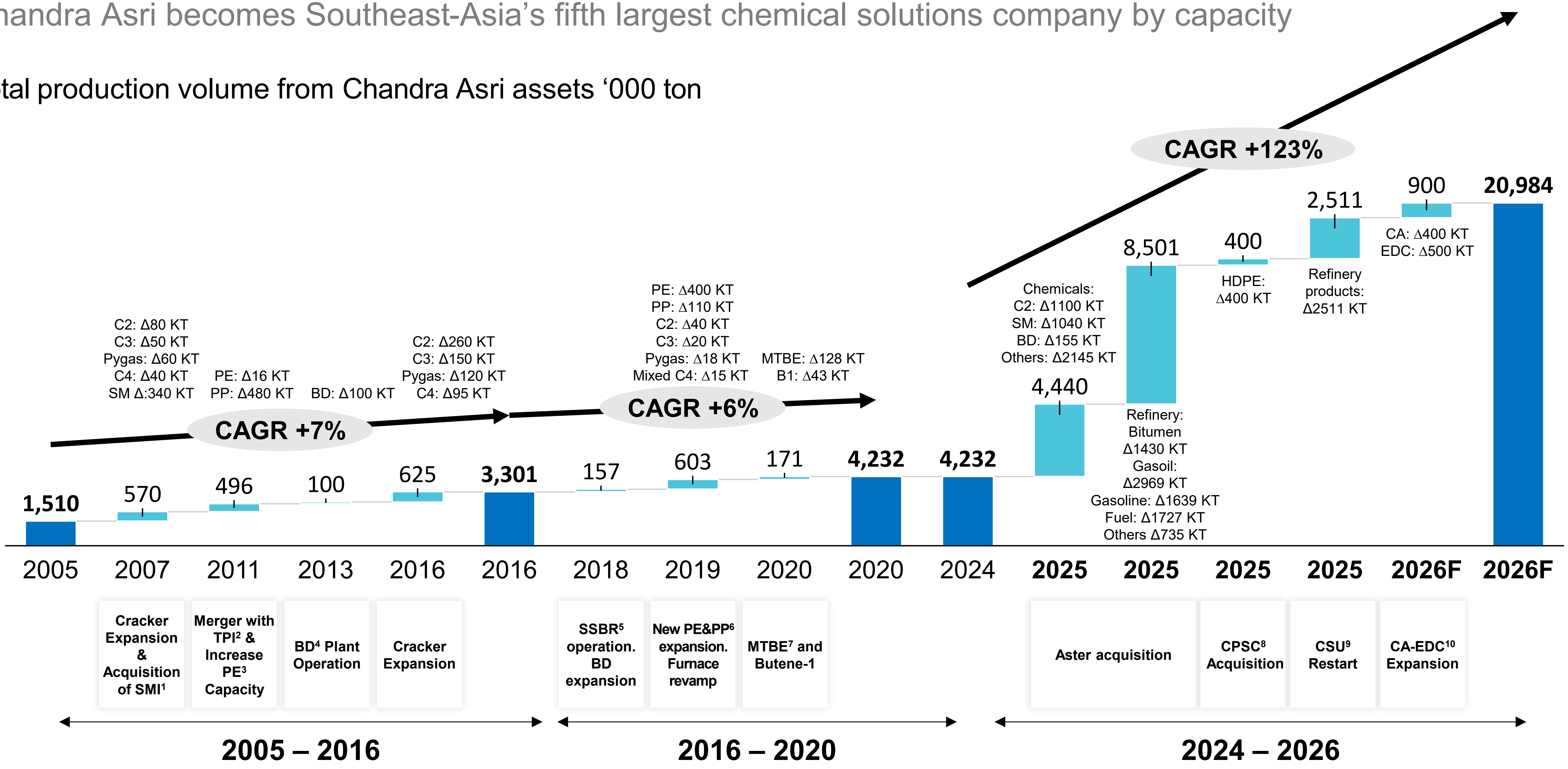
Solid track record of growth through partnerships with world-class institutions

1	▪ CA's shareholder (46.34%) ▪ Indonesia based conglomerate with diversified businesses	▪ PEFINDO Rating: idA+ ▪ Available land for CAP's expansion
2	▪ CA's shareholder (30.57%) ▪ One of the Asia's largest petrochemical companies	▪ Fitch Rating: A ▪ Product off-taker
3	▪ CA's shareholder (15.00%) ▪ The largest oil refinery in Thailand	▪ Fitch Rating: A+ ▪ Feedstock supplier
4	▪ One of the Indonesia's biggest conglomerates ▪ JV Partner in Jetty & Tank Farm Business through RPU	
5	▪ A French multinational tire manufacturer ▪ Fitch Rating: A-	▪ JV Partner in SSBR Business through SRI ▪ Product off-taker
6	▪ Indonesia's largest integrated steel maker ▪ Partner in Energy & Water Infrastructure Business (KCE & KTI)	
7	▪ The 6th world's largest steel maker; HQ in South Korea ▪ S&P Rating: BBB+	▪ JV Partner in Energy Business (KPE) – electricity provider
8	▪ The first Independent Power Producer in Thailand ▪ Tris Rating: AA	▪ JV Partner in Infrastructure business via CDI
9	▪ One of the largest global diversified natural resource companies in the world	▪ JV Partner in acquiring Refinery, Ethylene Cracker & Downstream Chemical Assets of SECP

Chandra Asri's Production Capacity Growth of 500%

Chandra Asri becomes Southeast-Asia's fifth largest chemical solutions company by capacity

Total production volume from Chandra Asri assets '000 ton



1. Styrene Monomer Indonesia
2. Tri Polyta Indonesia
3. Polyethylene
4. Butadiene
5. Synthetic Styrene Butadiene Rubber
6. Polyethylene and Polypropylene
7. Methyl tetr-butyl ether
8. Chevron Phillips Singapore Chemicals
9. Condensate Splitter Unit
10. Chlor-Alkali & Ethylene Dichloride

Chandra Asri

Thank you

Feel free to reach out to us should you have any question

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