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1. Introduction to Chandra Asri Petrochemical

Chandra Asri – Indonesia's Leading and Preferred Petrochemical Company



Largest Integrated Petrochemical Producer in Indonesia

Largest integrated petrochemical producer in Indonesia and operates the country's only naphtha cracker, styrene monomer and butadiene plants

Market leadership in highly attractive Indonesia and SE Asia petrochemical market

 Market share of approximately 52%, 24%, and 29% of the domestic market (including imports) in olefin, polyethylene, and polypropylene, respectively

Support from Barito Pacific Group and Siam Cement Group

Transformed in 2016 following the 4Q2015 Naphtha Cracker expansion, resulting in Adjusted EBITDA increase, reinforced balance sheet, and a more diversified product mix

- 2015 2016 Adjusted EBITDA growth of +229%; LTM EBITDA (as of 30 Sep 2017) at US\$ 570 million
- Reduced debt and Debt / Adjusted EBITDA dropped to 0.8x as of FY2016 and further to 0.6x as of 30 Sep 2017



Stable and Robust Financials Supported by Strong Credit Strengths

Integration from upstream cracker to downstream polyolefin products

Strategically located near key customers

Low production cost base and operating efficiencies
 Benefit from scale of feedstock sourcing and stable supplier relationships

Naphtha cracker utilisation rate of 99% in YTD3Q17

Long-standing relationships with diverse customer base

- No single customer accounts for more than 7.4% of consolidated revenue
- In 2016, 74% of products by revenue were sold to domestic market

Captive distribution network provides significant cost efficiencies

- Key customers integrated with CAP production facilities via CAP's pipelines
- Provides significant cost efficiencies to key customers

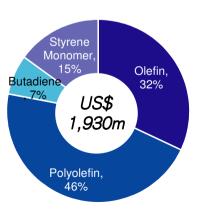
New projects fueling strategic growth
 Projects include partnership with Michelin to expand downstream products, new polyethylene plants, debottlenecking, and other efficiency improvements

Evaluation of a second petrochemical complex underway

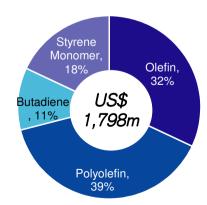


CAP's main integrated manufacturing complex

2016 Revenue

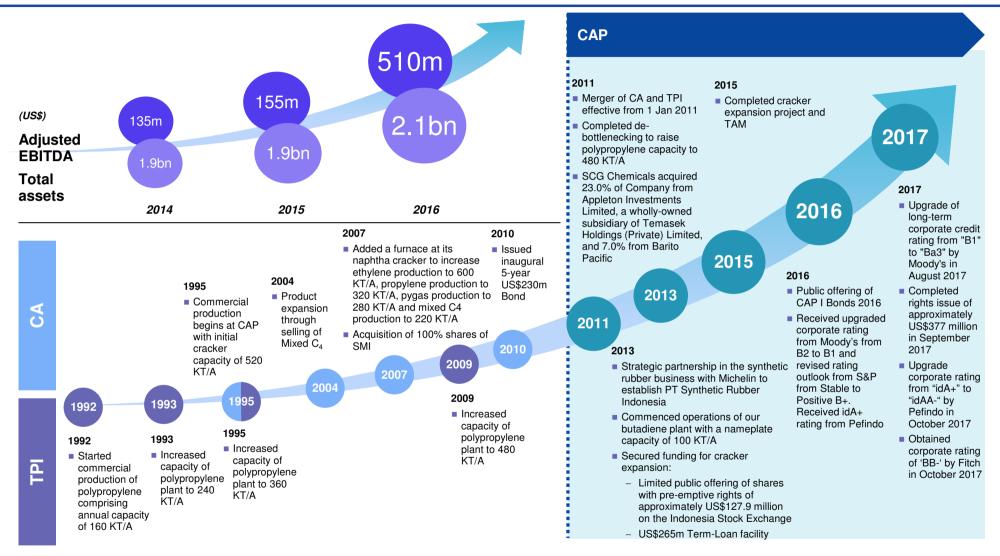


YTD 3Q17 Revenue



25 Year Track Record of Successful Growth





Track record of achieving operational and structured growth

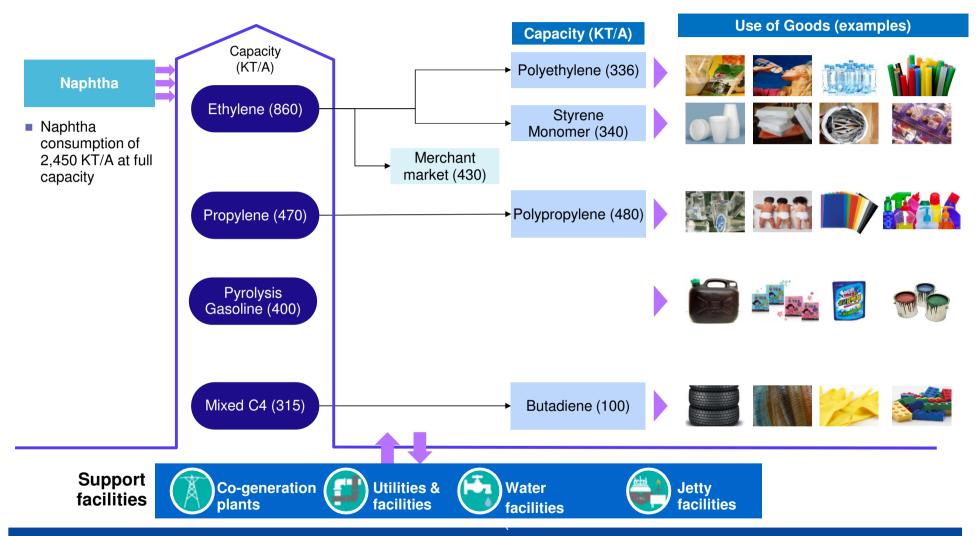
Vision to be Indonesia's Leading and Preferred Petrochemical Company



- 1 Increase capacity and build on leading market position
- Expand product offerings and further optimize integration along the petrochemical value chain
- 3 Develop feedstock advantage to improve cost competitiveness
- 4 Develop and nurture human capital
- Continue to leverage the Company's unique infrastructure and customer service to maintain premium value to customers
- Maintain and further improve best-in-class operating standards, cost efficiency, and safety, health and environment

Integrated Production of Diverse Products





CAP's products encompass a wide range across the consumer products value-chain, and its leading position and strategic location enhances its competitiveness

CAP is Indonesia's Largest Petrochemical Producer



Capacities of Petrochemical Producers in Indonesia (March 2017)

Capacity ('000 tons per year)	Chandra Asrı Petrochemical	LOTTE CHEMICAL	PERTAMINA	Polytama	ASC Group	PT SULFINDO ADIUSAHA	TPPI	Others	Total
Ethylene	860								860
Propylene	470		608						1,078
LLDPE	200	200							400
HDPE	136	250							386
Polypropylene	480		45	240					765
Ethylene Dichloride					644	370			1,014
Vinyl Chloride Monomer					734	130			864
Polyvinyl Chloride					507	95		202	804
Ethylene Oxide								240	240
Ethylene Glycol								220	220
Acrylic Acid	i							140	140
Butanol	 	1						20	20
Ethylhexanol	1	1						140	140
Py-Gas	400								400
Crude C4	315								315
Butadiene	100								100
Benzene			125				400		525
Para-Xylene		1	298				540		838
Styrene	340								340
Total	3,301	450	1,076	240	1,885	595	940	962	9,449

CAP offers the most diverse product range and is a dominant producer with market share of approximately 52%, 24%, and 29% of the domestic market (including imports) in olefin, polyethylene, and polypropylene, respectively

Source: Nexant



2. Key Investment Highlights

2. Key Investment Highlights



- Attractive industry outlook
 - Well-positioned to benefit from attractive Indonesian growth fundamentals
 - Indonesia's leading petrochemical producer with a diverse product portfolio



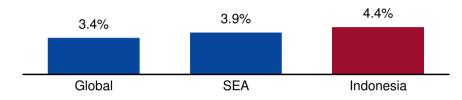
- 4 High degree of operational integration
- Diversified customer base and strategically located to supply key customers
- 6 Diverse and secured sources of feedstock and raw materials
- 7 Strong shareholder support
- Highly experienced management team with proven track record of managing and expanding operations

1 Attractive Industry Fundamentals Providing Tailwinds for Petrochemicals Demand Growth in SEA

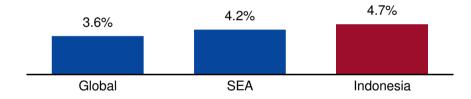


Polyolefins Demand in SEA Expected to Outpace Global Market Growth...

Polyethylene consumption growth (2017 - 2023E CAGR)



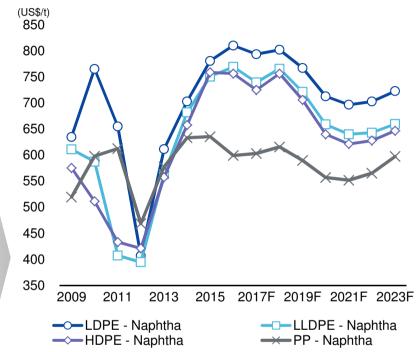
Polypropylene consumption growth (2017 - 2023E CAGR)



...while Asian Naphtha Prices Remain Below Historical Average



Polyolefin Spreads Expected to Remain Resilient



(US\$/t)	Last 5 Years Average	Next 5 Years Average		
LDPE - Naphtha	662	754		
LLDPE - Naphtha	631	705		
HDPE – Naphtha	630	689		
PP - Naphtha	582	583		

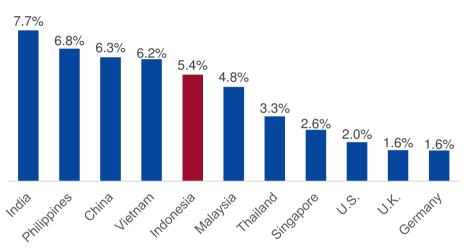
Average spreads of key products will be continue to be resilient

Source: Nexant 10

2 Well-Positioned to Benefit from Attractive Indonesian Macroeconomic Growth and Consumption Trends

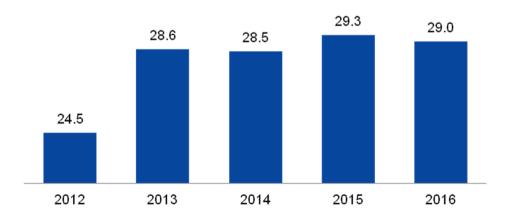


GDP Growth CAGR (2017 – 2020F)(1)



Foreign Direct Investment in Indonesia (2012 – 2016)

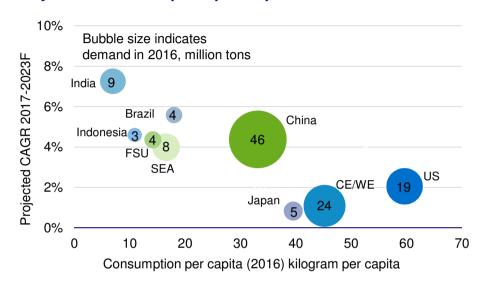
(US\$bn)



(1) GDP, constant prices; IMF World Economic Outlook Database, October 2017

(4) FSU means Former Soviet Union, CE means Central Europe, WE means Western Europe Source: Nexant Industry Report. IMF. BKPM

Polyolefins Consumption per Capita⁽²⁾⁽³⁾⁽⁴⁾



Domestic trends



⁽²⁾ SEA excludes Indonesia

⁽³⁾ Polyolefins include HDPE, LLDPE, LDPE and PP

2 Strong Demand Growth for Petrochemical Products in Indonesia



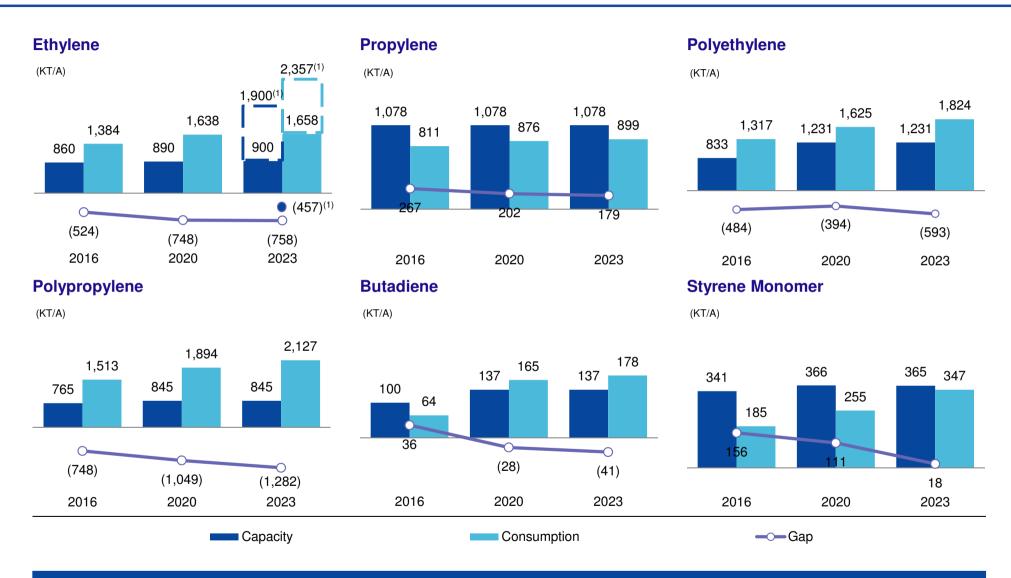


Petrochemical products are fundamental to the production of a wide variety of consumer and industrial products, such as packaging, containers, automotive and construction materials

(1) By volume Source: Nexant

Petrochemical Market in Indonesia will Continue to See an Increasing Gap Between Supply and Demand





Indonesia is expected to remain in deficit and dependent on imports

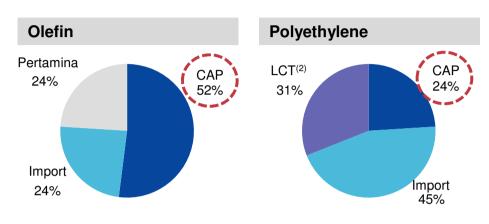
⁽¹⁾ Includes unsanctioned capacity of 1MT Source: Nexant

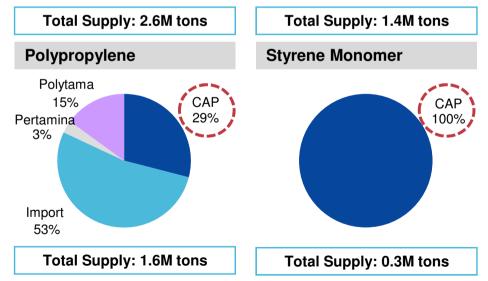
3CAP is the Indonesian Market Leader



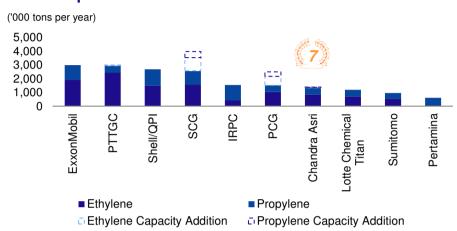


Largest Petrochemical Company in Indonesia(1)

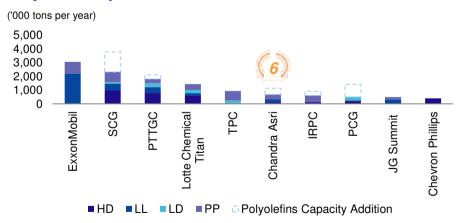




Olefin Top 10 South East Asia Producers(3)



Polyolefin Top 10 South East Asia Producers(3)



CAP is a market leader in Indonesia across all of its products, and a leading player in the region

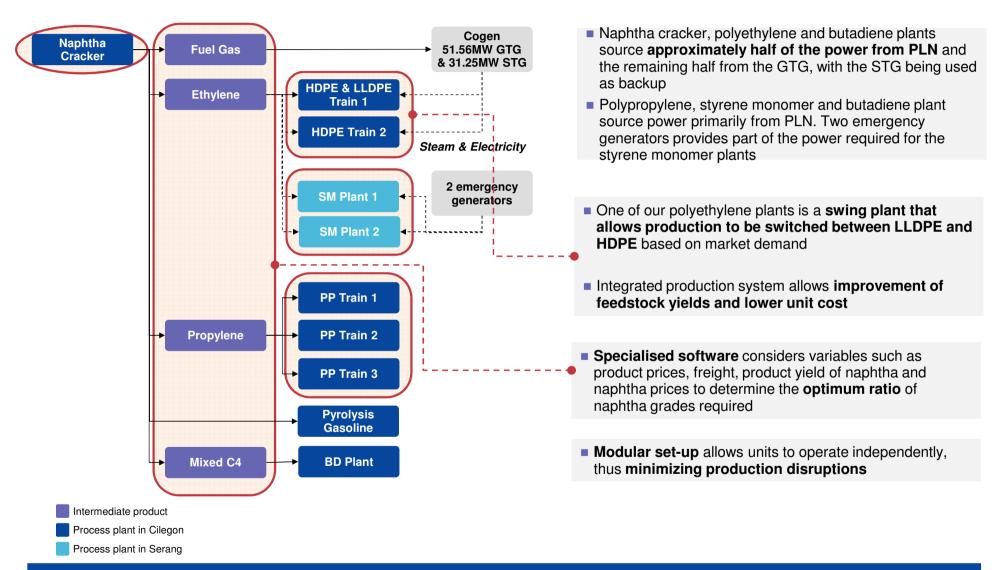
⁽¹⁾ By production excluding fertilizer producers

⁽²⁾ Refers to Lotte Chemical Titan

⁽³⁾ Chandra Asri capacity is inclusive of SCG's equity in Chandra Asri Source: Nexant

4 Highly Integrated Production Process with Operational Flexibility



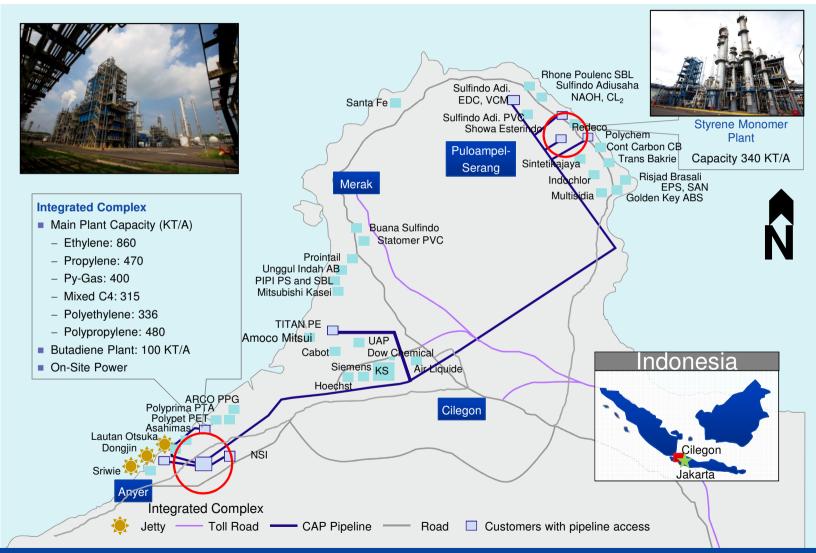


Integration allows us to take advantage of operational savings and synergies, and provides flexibility to respond to changes of key products

5Strategically Located to Supply Key Customers



CAP's Integrated Petrochemical Complexes



Location proximity and well established pipeline ensures excellent connectivity to key customers. This coupled with reliability of supply lead to premium pricing, with integration of facilities creating significant barriers to entry.

5 Diversified Client Base of Industry Leaders



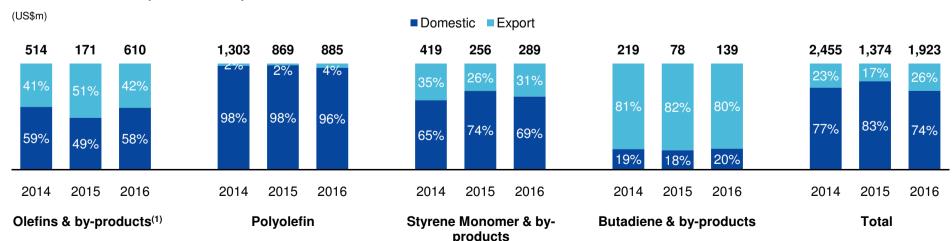
Sales & Marketing Strategy

- Long term relationships with key customers
- Connected to production facilities via CAP's pipeline (ethylene and propylene customers)
- Network of 300+ customers, with diversified clientele
 - Top 10 customers account for only 43.6% of revenues in 2016
 - Majority of top 10 customers have been with CAP for >10 years
- Trademarked brand names
 - "Asrene" for polyethylene products, "Trilene" for polypropylene products, "Grene" for resin products
- Strong marketing and distribution platform with nation-wide network
 - Short delivery times result in premium pricing over benchmarks
 - Onground technical support

Top 10 Customers (2016)

Customer	Products	% of Revenue	Customer Since	Location
Customer 1	Polyethylene, polypropylene	7.4%	1995	Indonesia
Customer 2	Ethylene, propylene and styrene monomer	5.1%	2002	Japan
Customer 3	Styrene monomer and butadiene	5.1%	2004	Indonesia
Customer 4	Polyethylene, polypropylene	4.6%	1995	Indonesia
Customer 5	Ethylene	4.5%	1995	Indonesia
Customer 6	Ethylene	4.1%	2007	Indonesia
Customer 7	Butadiene, raffinate, styrene monomer, C ₄	3.9%	2002	Singapore
Customer 8	Pygas	3.7%	2011	Thailand
Customer 9	Propylene	2.8%	2011	Indonesia
Customer 10	Ethylene	2.5%	2006	Indonesia
Top 10 Customers % of Revenue 43.6%				

Sales Breakdown (2014 – 2016)



- (1) Includes ethylene, propylene, and by-products such as pygas and mixed C4
 - Propylene: Majority used as feedstock for polypropylene production internally
 - Mixed C4: Majority used as feedstock for butadiene production internally
 - Pygas: Primarily sold to SCG

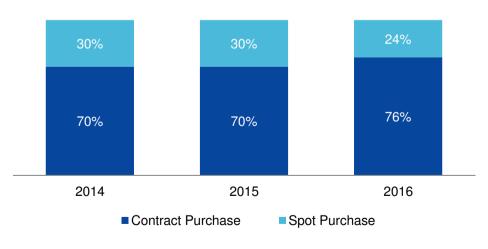
6 Stable and Flexible Feedstock Supply



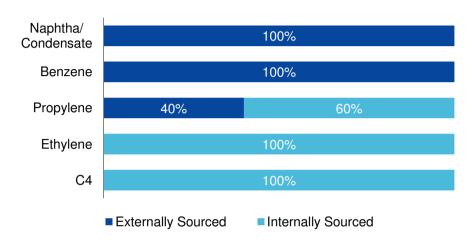
Feedstock Procurement Overview

- Long-standing stable supplier relationships
- No material feedstock supply disruption historically
- Flexibility in feedstock purchasing (spot vs. contract)
 - Avoids single supplier dependence
 - 76% of naphtha under contract with major oil trading companies in 2016
- Procurement synergies with SCG
- Substantial naphtha storage capacity to support 27 days of operations

Naphtha Supply (2016)



Main Raw Materials (2016)



Suppliers of Naphtha (2016)

Supplier	US\$m	%
Vitol Asia Pte Ltd	304.2	35.6%
Marubeni Petroleum C Ltd	237.5	27.8%
SCG Chemicals Co. Ltd	81.8	9.6%
Chevron U.S.A. Inc	78.4	9.2%
Shell International Eastern Trading	69.4	8.1%
Shell MDS (Malaysia) Sendirian	26.2	3.1%
Konsorsium PT. Titis Sampurna	22.0	2.6%
PT Surya Mandala SaKTi	3.2	0.4%
PT Sadikun Chemical Indonesia	0.5	0.1%
Others	31.6	3.7%
Total	854.9	100.0%

7Strong Commitment from Shareholders



Shareholder Structure (as of 30 Sep 2017)



Barito Pacific

 Indonesia based conglomerate with business interests in property, timber, plantation, power generation and petrochemicals

Siam Cement Group

- Thailand's largest industrial conglomerate and Asia's leading chemicals producer
- Invested 30% in CAP in 2011
- Second largest olefins and polyolefins producer in South East Asia

Key benefits of partnership

- Barito Pacific is committed to the growth and development of CAP
 - Available land for expansion
 - Financial commitment (e.g. full subscription to 2013 rights offering)

Key benefits of partnership

- Production know-how and sharing of best operational practices
- Raw material procurement savings
- Sales and marketing collaboration
- Access to Thai financial institutions
- Accelerate CAP's expansion plans

Strong backing from long term marquee strategic regional investors committed to the development of the business

⁽¹⁾ Owns 69.23% of PT Barito Pacific Tbk as of 30 Sep 2017

⁽²⁾ Subsidiary of PT Barito Pacific Tbk

8 Strong Management Team with Substantial Industry Experience



Board of Commissioners



DJOKO SUYANTO
President Commissioner
Independent
Commissioner

2 years in Industry 2 year with CAP



TAN EK KIA VP Commissioner Independent Commissioner

44 years in Industry 6 years with CAP



HO HON CHEONG
Commissioner,
Independent
Commissioner

2 years in Industry 2 years with CAP



AGUS SALIM PANGESTU Commissioner

11 years in Industry 11 years with CAP



LOEKI SUNDJAJA
PUTERA
Commissioner

15 years in Industry 15 years with CAP



CHAOVALIT EKABUT⁽¹⁾ Commissioner

11 years in Industry 5 years with CAP



CHOLANAT YANARANOP⁽¹⁾ Commissioner

30 years in Industry 5 years with CAP

Board of Directors



ERWIN CIPUTRA
President Director

13 years in Industry 13 years with CAP



KULACHET
DHARACHANDRA⁽¹⁾
VP Director of Operations

23 years in Industry 1 year with CAP



BARITONO
PRAJOGO
PANGESTU
VP Director of Polymer
Commercial

12 years in Industry 12 years with CAP



LIM CHONG THIAN Director of Finance

37 years in Industry 12 years with CAP



SURYANDI
Director of Human
Resource and Corp.
Administration,
Independent Director

27 years in Industry 27 years with CAP



PIBOON
SIRINANTANAKUL⁽¹⁾
Director of
Manufacturing

24 years in Industry 1 year with CAP

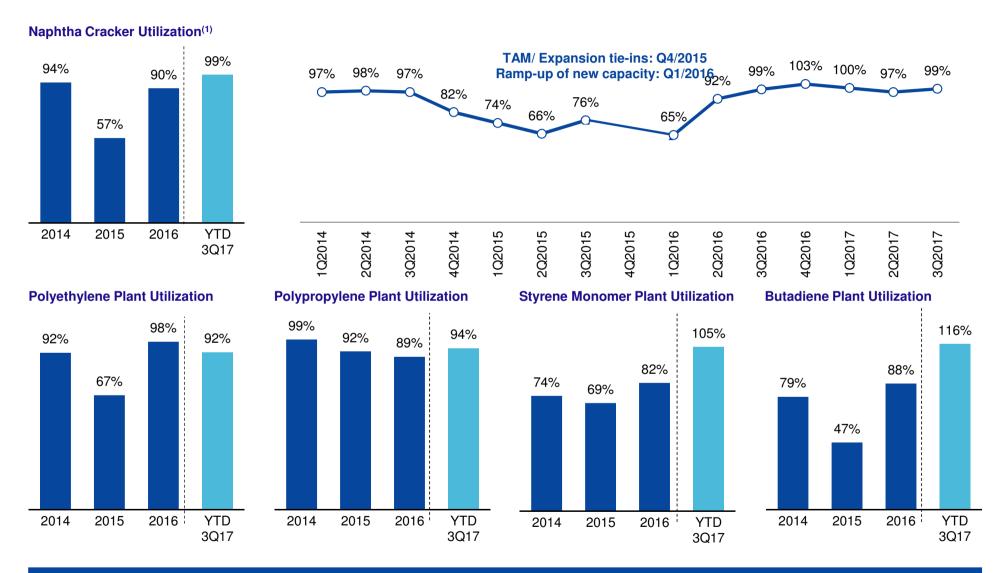


FRANSISKUS RULY
ARYAWAN
Director of Monomer
Commercial

15 years in Industry 15 years with CAP

8 Strong Track Record of Delivering Operational Excellence and Performance



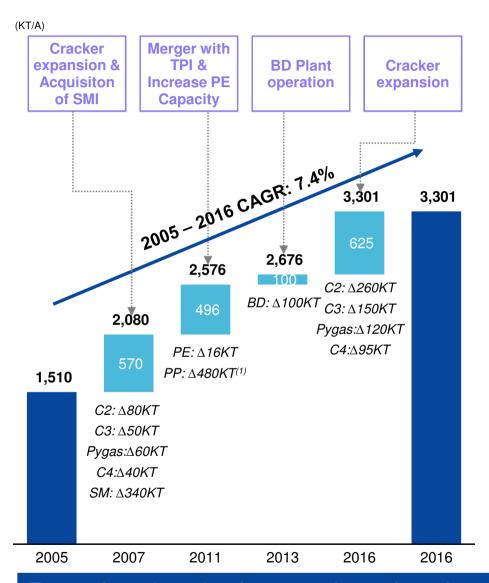


Plant utilization has remained high due to our operational process optimization initiatives

⁽¹⁾ In September to December 2015, we conducted a scheduled TAM and expansion tie-in-works in conjunction with our cracker expansion project, which resulted in the shutdown of our cracker facility for 85 days and limited our production capacity for 2015. 2016 utilisation was reduced due to ramp-up in 1Q 2016

8 Strong Success of Both Vertical and Horizontal Expansion





- Successfully acquired and integrated SMI and TPI
- Expanded naphtha cracker in 2015 to achieve economies of scale and take advantage of significant ethylene shortage in Indonesia
 - Mechanical completion on 9 Dec 2015, on time and within budget (c. US\$380m)
 - Total actual project cost in line with budget (c. US\$380m)
 - Achieved high utilization rates
- Currently undertaking next stage of expansions and growth

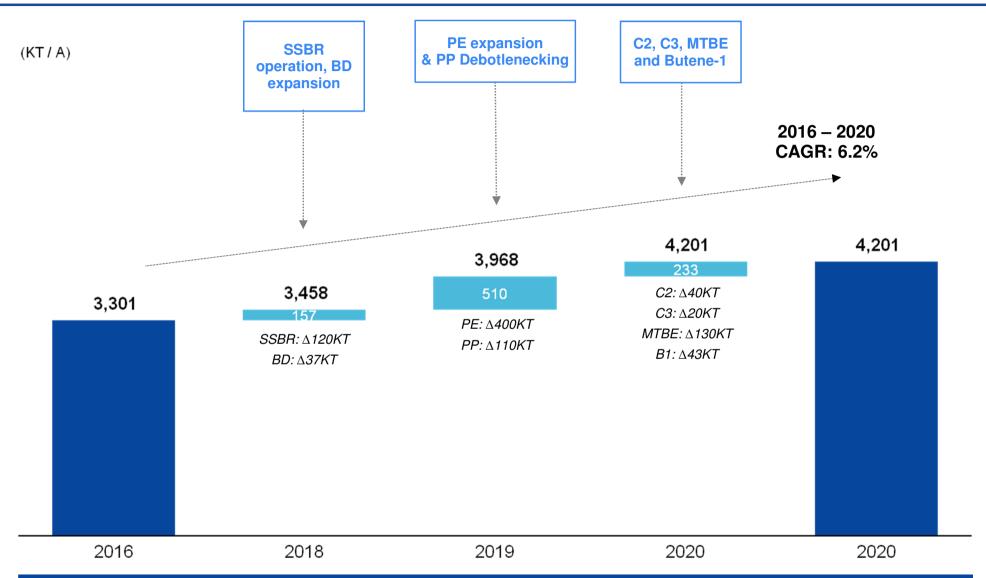
Expansion of production capacity and product range has enabled us to maintain our market leading position



3. Attractive Growth Profile

Strategic Growth via Expansion and Debottlenecking (Excluding Second Petrochemical Complex)





After doubling the size of production capacity over historical 10-yrs, expected further growth in the next 5-yrs will come from several expansion & debottlenecking initiatives.

Strategic Growth via Expansion and Debottlenecking



Increase Production Capacity

Butadiene Plant Expansion

- Increase BD capacity by 100 KT/A to 137 KT/A
- Rationale:
 - Add value to incremental C4 post 2015 cracker expansion
 - Avoid opportunity loss of exporting excess C4
 - Enjoy BD domestic premium and fulfill SRI's BD requirement
- Proposed start-up: 2Q2018
- Estimated cost: US\$ 42.0 million

New Polyethylene Plant

- New facility of total 400 KT/A to produce LLDPE, HDPE and Metallocene LLDPE
- Further vertical integration
- Rationale:
 - Further vertical integration:
 - Protect and grow leading polymer market position in Indonesia
- Proposed start-up: 4Q2019
- Estimated cost: US\$ 347.0 million

Furnace Revamp

- Increase cracker capacity by modifying heat internals to increase ethylene capacity from 860 KT/A to 900 KT/A and propylene capacity from 470 KT/A to 490 KT/A
- Proposed start-up: 1Q2020
- Estimated cost: US\$ 45.0 million

Additional Expansion and Product Offering Initiatives

PP Debottlenecking

- Debottleneck PP plant to increase capacity by 110 KT/A from 480 KT/A to 590 KT/A
- Rationale:
 - Demand and supply gap for PP expected to widen in Indonesia
 - Opportunity to increase PP sales
- Proposed start-up: 3Q2019
- Estimated cost: US\$ 35.5 million

MTBE and Butene - 1 Plant

- Production of 130 KT/A and 43 KT/A of MTBE and Butene-1, respectively
- Rationale:
 - Secure supply of MTBE and Butene-1 which are used in the production of Polyethylene
 - Excess demand for MTBE in Indonesia
- Proposed start-up: 3Q2020
- Estimated cost: US\$ 87.0 million

Second Petrochemical Complex

- Expected to conduct feasiblity study for the construction and operation of second integrated petrochemical complex
- Complex expected to comprise:
 - 1,000 KT/A ethylene cracker
 - Various downstream derivative products
- Set up new company (PT Chandra Asri Perkasa) to undertake new project
- Shareholding structure yet to be finalized and CAP is in discussion with various third parties
- There is land available adjacent to main petrochemical complex which would be available for future acquisition as necessary

Expand Product Offering by Moving Downstream

Synthetic Rubber Project (through SRI JV)

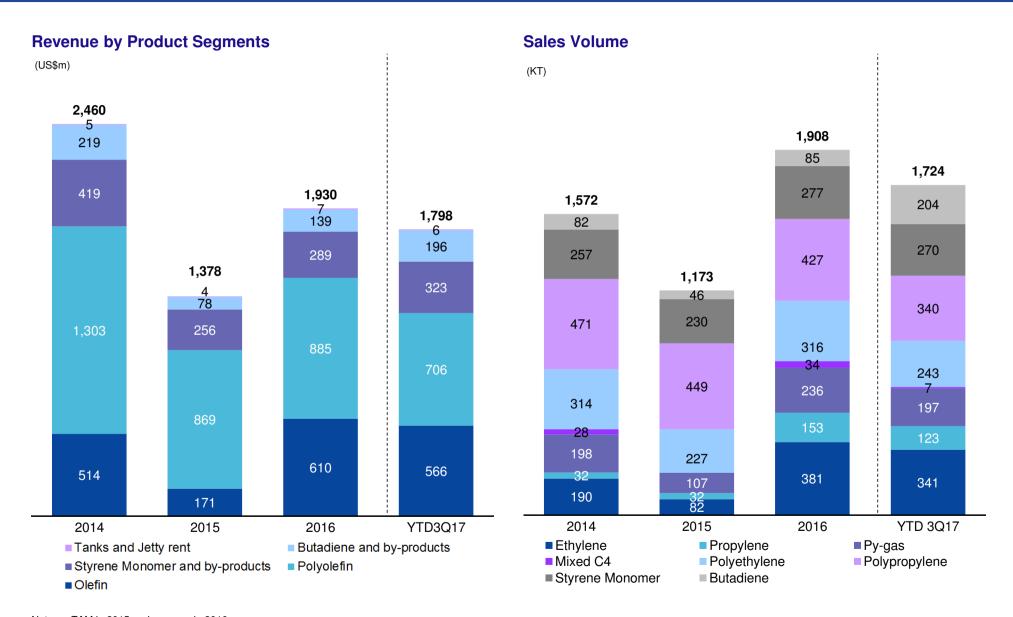
- Part of downstream integration strategy and efforts to produce higher-value added products
- Partnership with leading global player Michelin (ownership 55:45%)
- Production capacity: 120 KT/A
- Proposed start-up: 1Q2018
- Estimated total project cost: US\$570.0 million (fully funded)





4. Financial Highlights

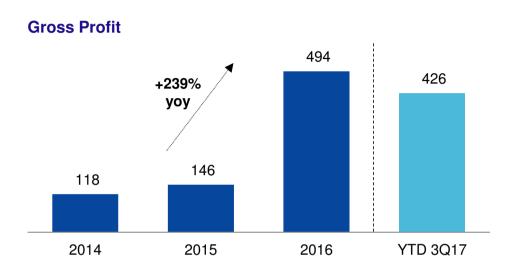
Resilient Revenue Driven by Diverse Product Portfolio and Increased Volumes Chandra Asru Petrochemical

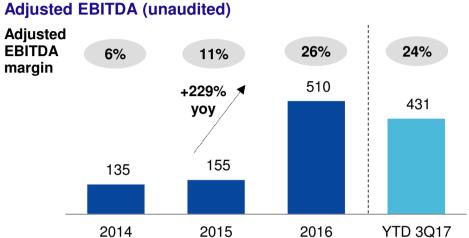


Note: TAM in 2015 and ramp-up in 2016.

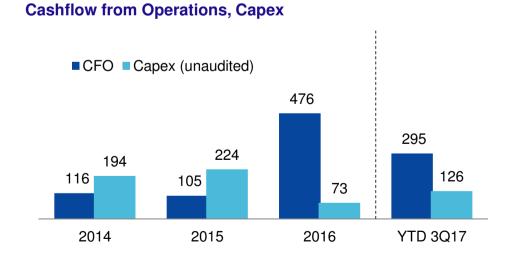
Strong Financials Further Enhanced by Economies of Scale





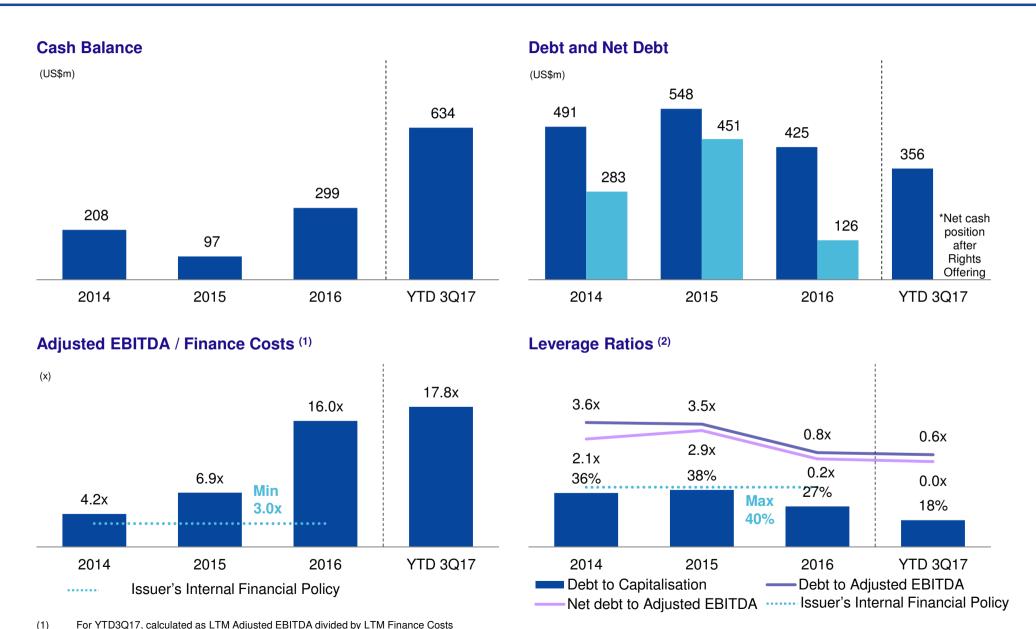


Net Profit 1% 2% 16% 14% | 300 | 251 | | 18 | 26 | | 2014 | 2015 | 2016 | YTD 3Q17



Strong Balance Sheet Supported by Financial Profile Strengthening

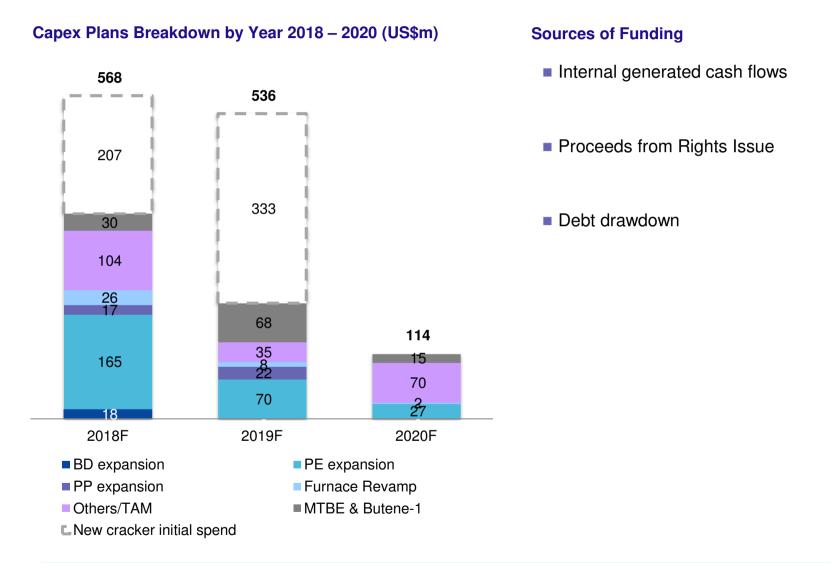




Debt to Capitalisation calculated as total debt divided by (total debt + equity). Debt to Adjusted EBITDA calculated as Total Debt divided by Adjusted EBITDA. Net Debt to Adjusted EBITDA calculated as Net Debt divided by Adjusted EBITDA. Debt to Adjusted EBITDA and Net Debt to Adjusted EBITDA for YTD 3Q17 calculated as Total Debt divided by LTM Adjusted EBITDA and Net Debt divided by LTM Adjusted EBITDA respectively.

Capital Expenditure Plan to Pursue Value-Accretive Growth





Estimated US\$1.2b over next 3 years, mainly for Expansion and Debottlenecking



Appendix

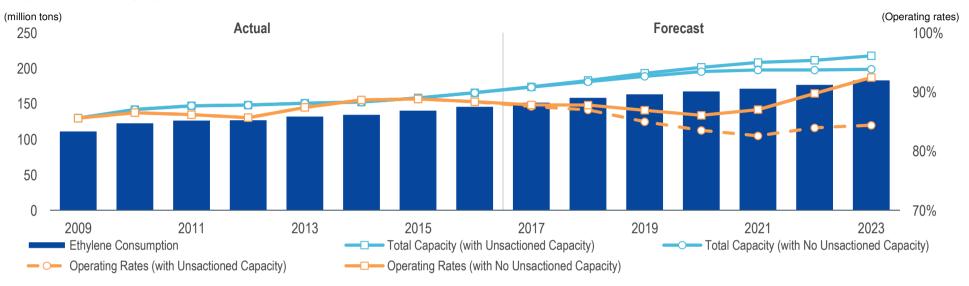


Petrochemicals Industry Outlook

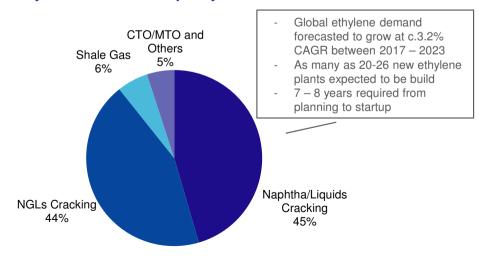
Ethylene World Supply Growth and Capacity



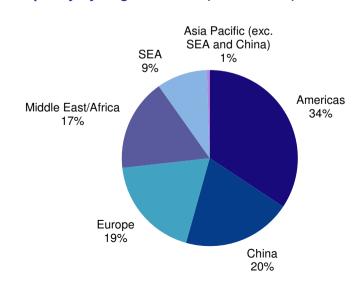
Ethylene World Supply Growth



Ethylene Production Capacity: 218MT in 2023



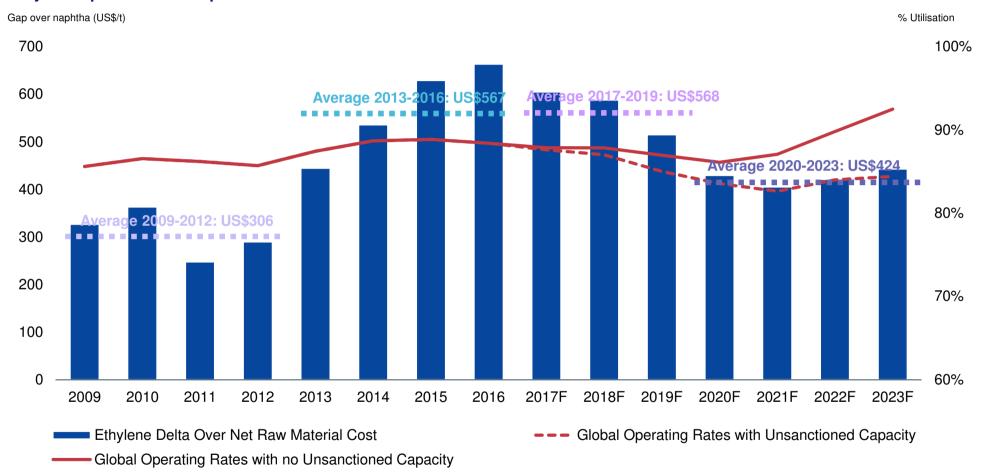
New Capacity by Region: 25MT (2017 – 2023)



The Petrochemical Industry is in a Long Term Cyclical Phase



Ethylene Spreads Over Naphtha



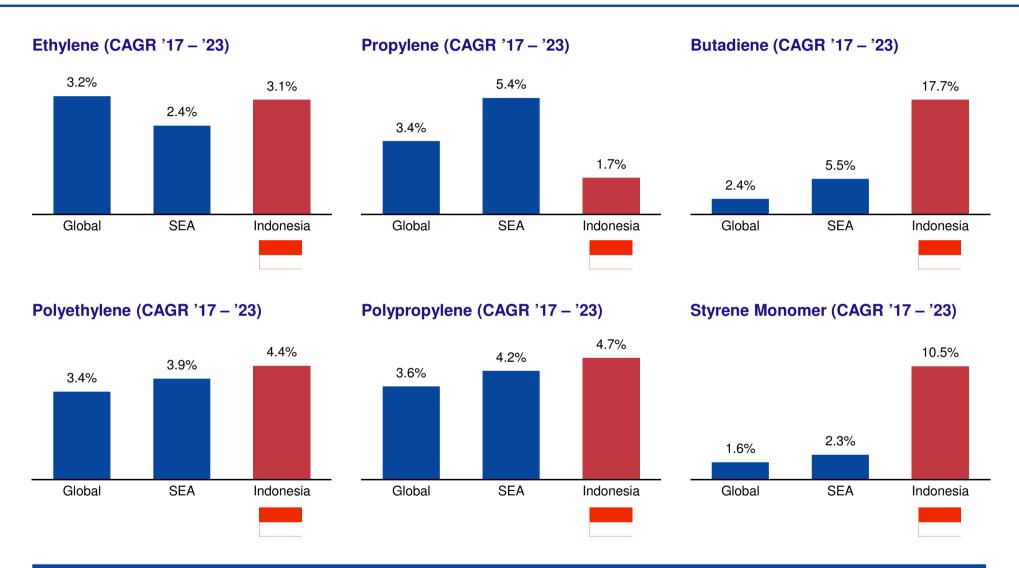
Petrochemical industry profitability to continue on path of sustainable recovery post 2012 as a result of improving demand and lower capacity addition

Note: Forecast price is based on Brent Crude at US\$55 (2017), US\$65 (2018), US\$70 (2019 – 2025) per barrel (constant 2016 dollars)

Source: Nexant

Strong Demand Growth for Petrochemicals in Indonesia





Petrochemical demand in Indonesia expected to outpace other regions

Source: Nexant

Prudent Financial Policies



Foreign Exchange

- Maintain natural economic hedge as underlying sales and majority of costs and borrowings are denominated in US\$
- Treasury risk management on Rupiah currency risks:
 - Sales are hedged via pricing to customers and forward swaps with reputable banks
 - Minimum Rupiah cash holdings of up to 10 15% of idle cash to meet operational needs

Leverage

- Maximum total debt to capitalization of 40% on sustainable basis
- Maximum Net Debt / Adjusted EBITDA of 3.0x

Coverage

Minimum Adjusted EBITDA / Interest cover of 3.0x

Liquidity

Seek to maintain minimum cash of US\$100m at all times

Return on Capital

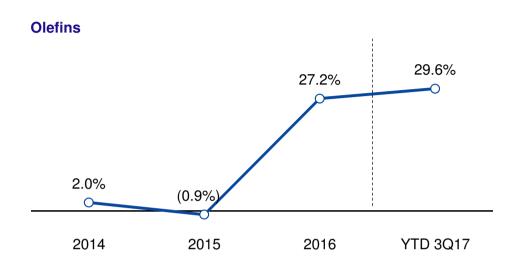
Seek minimum 15% IRR for new investments

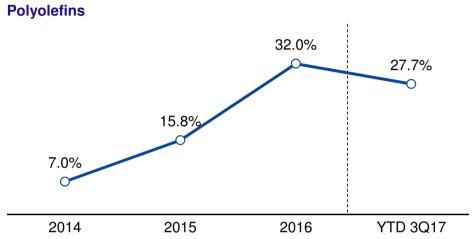
Dividend Policy

- Payout in the amount of c. 40% of consolidated net profit subject to:
 - Liquidity, leverage and reserves
 - Financial performance / sustainability
 - Projected operational and capital expenditure

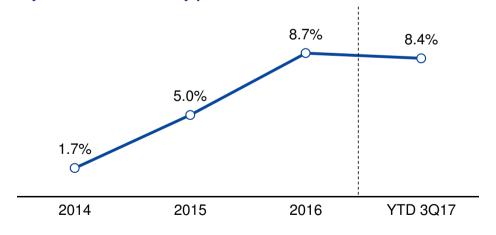
Strong Gross Margins Reflecting Improved Supply/Demand Balance & Higher Utilization Rates



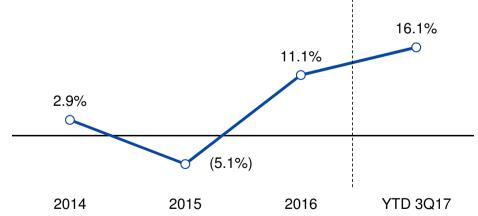




Styrene Monomer and by-products



Butadiene and by-products





Thank You

Address:

PT Chandra Asri Petrochemical Tbk Wisma Barito Pacific Tower A, Lt. 7 Jl. Let. Jend. S. Parman Kav. 62-63 Jakarta 11410

Visit our website at www.chandra-asri.com

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