# 14 OCTOBER 2020 THAILAND / MATERIALS

# SIAM CEMENT SCC TB





TARGET PRICE THB445.00
CLOSE THB348.00
UP/DOWNSIDE +27.9%
TP vs CONSENSUS +14.5%

# ยั่งยืนเหนือวงจรธุรกิจ

### เล็กแต่โตอย่างยั่งยืน

เราเชื่อว่ากำไรสุทธิของ SCC ยังมีแนวโน้มการเติบโตที่ดีด้วยอัตรา 4% CAGR ในระยะเวลา 3 ปี (2020-2022) แม้ว่าแนวโน้มอัตรากำไรของอุตสาหกรรมปิโตรเคมี รวมถึงปูนซีเมนต์และวัสดุ ก่อสร้าง (CBM) จะยังคงท้าทายจากปัญหาอุปทานเกินดุลเรื้อรังและความต้องการที่อ่อนแออัน เกิดจากการแพร่ระบาด COVID-19 ในความเห็นของเรา ปัจจัยสำคัญที่จะช่วยผลักดันให้กำไร สุทธิของ SCC มีความยั่งยืนในปี 2020-2022 ประกอบด้วยตะกร้าธุรกิจ (Portfolio) ที่สมดุลย์ โดยมีธุรกิจทั้งในประเทศและต่างประเทศ การเติบโตที่มาจากภายนอกในเวลาที่เหมาะสม และ การปรับธุรกิจที่มีความสำคัญทางยุทธศาสตร์ซึ่งไม่เพียงแต่ช่วยให้บริษัทฯ รอดพันแต่ยังสร้าง มูลค่าสำหรับผู้ถือหุ้นระยะยาว

### ธุรกิจสร้างเงินสดแฝด: เคมีและ CBM

ในขณะที่เราไม่แน่ใจเกี่ยวกับแนวโน้มอัตรากำไรในธุรกิจเคมี และโอกาสในการขยายกำลังการ ผลิตของโครงการ LSP จากแนวโน้มอัตรากำไรที่ไม่แน่นอนหลังปี 2023E เราเห็นว่า SCC สามารถได้ประโยชน์อย่างสูงจากความยืดหยุ่นในด้านวัตถุดิบที่สูงกว่าโดยใช้สัดส่วนวัตถุดิบที่ สามารถแข่งขันได้ดีกว่าระหว่างก๊าซและแนฟทา เราคาดว่ากำไรสุทธิจากธุรกิจ CBM จะเพิ่ม จาก 5.5พัน ลบ. ในปี 2019 เป็น 7.6พัน ลบ. ในปี 2020 เป็น 7พัน ลบ. ในปี 2021 และเป็น 6.9พัน ลบ. ในปี 2022 จากต้นทุนพลังงานที่คาดว่าจะลดลงและประสิทธิภาพในการผลิตที่ สูงขึ้น ซึ่งควรช่วยชดเชยความต้องการปูนซีเมนต์ที่อ่อนแอได้บางส่วน

### SCGP อาจมีมูลค่า 42 บาทต่อหุ้น

เราคาดว่ามูลค่าของ SCGP หลังการเสนอขายหุ้นแก่ประชาชนทั่วไปเป็นครั้งแรก (IPO) จะอยู่ ที่ 178พัน ลบ. โดยคิดจาก FY21E EV/EBITDA ที่ 9x เท่ากับ 42 บาทต่อหุ้นโดยคิดจาก จำนวนหุ้นชำระแล้วที่ประชาชนทั่วไปถืออยู่ (Outstanding Shares) หลัง IPO ที่ 4.255พันล้าน หุ้นและ 1,127.6-1,296.7ล้านหุ้นที่นำเสนอแก่ประชาชนทั่วไป (26.5-29.3% ของจำนวนหุ้น ชำระแล้วที่ประชาชนทั่วไปถืออยู่หลัง IPO) ปัจจุบัน SCGP กำลังเสนอขายหุ้น 1,127.6ล้านหุ้น ให้แก่ประชาชนทั่วไปและจำนวนหุ้นจองที่มากกว่าที่ได้รับการจัดสรร (Overallotment) 169.1 ล้านหุ้น SCPG มีกำหนดเข้าชื่อขายในตลาดหลักทรัพย์แห่งประเทศไทยภายในตุลาคม 2020

### สร้างมูลค่าด้วยธุรกิจ 3 ขา

เราเริ่มรายงาน SCC ด้วยคำแนะนำซื้อที่ราคาเป้าหมาย 445 บาท (SOTP) เราใช้ค่า FY21E EV/EBITDA ที่แตกต่างกันเพื่อสะท้อนอัตราส่วนผลตอบแทนต่อความเสี่ยงและวงจรธุรกิจอัน เป็นเอกลักษณ์ของแต่ละธุรกิจ กล่าวคือ เราใช้ค่า FY21E EV/EBITDA เพียง 6x สำหรับธุรกิจ เคมีและ 11x สำหรับธุรกิจ CBM เพื่อสะท้อนมุมมองเชิงลบของเราต่อแนวโน้มกำไรสุทธิและ EBITDA ของธุรกิจเคมีของ SCC ในปี 2021-2022E จากแนวโน้มอุปทานในอุตสาหกรรมที่ คาดว่าจะอยู่ในสภาวะเกินดุล สำหรับธุรกิจบรรจุภัณฑ์ เราใช้ค่า FY21E EV/EBITDA ที่ 9x ซึ่ง เรามองว่าสมเหตุสมผลจากแนวโน้มอัตรากำไรที่กำลังปรับตัวขึ้นของ SCGP ในปี 2021-2022E โดยได้แรงผลักดันจากการบูรณาการธุรกิจที่กำลังเพิ่มสูงขึ้น

### **KEY STOCK DATA**

YE Dec (THB m)	2019	2020E	2021E	2022E
Revenue	437,980	452,914	479,900	493,105
Net profit	32,014	33,047	35,508	35,883
EPS (THB)	26.68	27.54	29.59	29.90
vs Consensus (%)	-	2.9	4.8	3.5
EBITDA	49,258	54,912	60,236	62,919
Core net profit	32,014	33,047	35,508	35,883
Core EPS (THB)	26.68	27.54	29.59	29.90
Chg. In EPS est. (%)	-	-	-	-
EPS growth (%)	(28.5)	3.2	7.4	1.1
Core P/E (x)	13.0	12.6	11.8	11.6
Dividend yield (%)	4.0	4.3	4.5	4.5
EV/EBITDA (x)	13.2	12.8	12.3	12.3
Price/book (x)	1.5	1.4	1.3	1.3
Net debt/Equity (%)	55.8	65.5	69.6	72.1
ROE (%)	11.5	11.5	11.6	11.1
				_



Share price performance	1 Month	3 Month	12 Month
Absolute (%)	0.6	(9.4)	(6.5)
Relative to country (%)	1.8	(3.8)	20.3
Mkt cap (USD m)			13,391
3m avg. daily turnover (US	D m)		26.7
Free float (%)			67
Major shareholder	H.M. King Mah	na Vajiralong	korn (34%)
12m high/low (THB)		400	.00/244.00
Issued shares (m)			1,200.00

Sources: Bloomberg consensus; FSSIA estimates



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PREPARED BY FSS INTERNATIONAL INVESTMENT ADVISORY SECURITIES CO LTD (FSSIA). ANALYST CERTIFICATION AND IMPORTANT DISCLOSURES CAN BE FOUND AT THE END OF THIS REPORT

### Investment thesis

We believe SCC's unique asset portfolio – consisting of cyclical chemical production, cement and building materials (CBM), and its more sustainable packaging business – could position it as one of Thailand's leading growth plays. SCC's net profit growth from its packaging business should timely offset the weaker net profit contributions from its chemical and CBM units in 2021-22E.

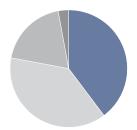
### Company profile

30% owned by the Crown Property Bureau, Siam Cement Group is the 3rd largest company on the Thailand Stock Exchange by market capitalisation. Established in 1913 as a cement company, SCG was a means to reduce reliance on cement imports and to take fuller advantage of the natural resources available in Thailand.

www.scg.com

### Principal activities (revenue, 2019)

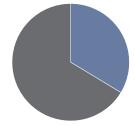
- Cement & Building Material 42.2
- Chemicals 40.6 %
- Packaging 20.3 %
- Other (3.1) %



Source: Siam Cement

### **Major shareholders**

- H.M. King Maha Vajiralongkorn -33.6 %
- Others 66.4 %



Source: Siam Cement

### Catalyst

Key potential catalysts for SCC include 1) capacity expansions of its chemical and packaging businesses; 2) the rising demand for chemicals and paper packaging that should more than offset the weak demand for CBM; and 3) margin expansions due to lower energy and financial costs.

### Risk to our call

Downside risks to our call include 1) a lower-than-expected demand for chemicals, CBM, and packaging; 2) rising coal costs for its cement and packaging units; and 3) weaker demand from the automobile industry that could erode the demand for SCC's chemical unit and its dividend contributions.

### **Event calendar**

Date	Event
29 October 2020	3Q20 results announcement

### Key assumptions

	2020E	2021E	2022E
Brent oil price (USD/bbl)	40	50	50
Naphtha price (USD/tonne)	450	498	480
Ethylene price (USD/tonne)	690	850	821
Propylene price (USD/tonne)	762	860	823
HDPE-naphtha (USD/tonne)	440	417	430
PP-naphtha (USD/tonne)	470	422	450
Packaging paper-AOCC (USD/tonne)	270	260	250
Cement demand growth (%)	(3)	3	3

Source: FSSIA estimates

### Earnings sensitivity

- For every 1% change in Brent oil price we estimate a 0.8% change in 2020 EPS, all else being equal.
- For every 1% increase in PP-naphtha margin, we estimate 2020 EPS would rise 0.9%, and vice versa, all else being equal.
- For every 1% increase in utilisation rate, we estimate 2020 EPS would rise 1.4%, and vice versa, all else being equal.
- For every 1% increase in AOCC price, we estimate 2020 EPS would fall by 0.3%, and vice versa, all else being equal.

Source: FSSIA estimates

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### Packaging star shining on the chemical and CBM cash cows

We believe SCC's net profit growth outlook remains sanguine at a 3Y CAGR of 4% (2020-22), despite the challenging margin outlook for the petrochemical and CBM industries due to the chronic oversupply and weak demand resulting from the COVID-19 pandemic. The key drivers to sustain SCC's net profits in 2020-22E, in our view, are its well-balanced portfolio with domestic and global exposure, timely inorganic growth, and its strategic business adaptation that should not only enable the company to survive but also create value for long-term shareholders.

Exhibit 1: Revenue breakdown by segment

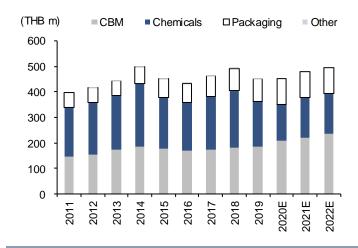
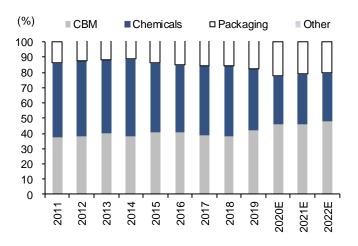


Exhibit 2: Revenue breakdown by segment (%)



Sources: SCC; FSSIA estimates

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Revenue from CBM has made up the largest proportion of SCC's revenue since 2011. However, the net profits from CBM have continued to weaken from their THB16.1b peak in 2012 down to only THB5.5b in 2019 due to Thailand's long, chronic oversupply of cement following the 1997 financial crisis. SCC's chemical revenue has fluctuated depending on the oil price movement, and its net profits have started to decline from their peak at THB42.2b in 2017 down to THB15.5b in 2019 due to the oversupply of chemical products.

SCC's packaging unit, SCG Packaging (SCGP), is the only business unit that has grown its net profit and EBITDA since 2011, rising from THB3.3b net profit and THB8.8b EBITDA in 2011 to THB5.3b net profit and THB15b EBITDA in 2019, thanks to its expansion strategy via both organic growth and M&As.

We project SCC's net profit to gradually rise in 2020-22 after bottoming out in 2019, driven by net profit growth from SCGP that should timely offset the weaker net profits from SCC's chemical and CBM cash-cow units.

### Exhibit 3: Net profit and net profit growth

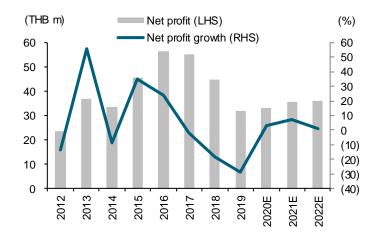
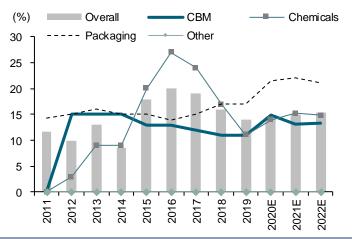


Exhibit 4: EBITDA margin by segment

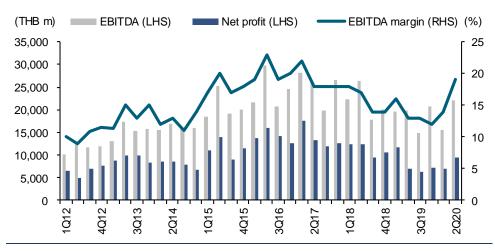


Sources: SCC; FSSIA estimates

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We project the chemical and CBM units' EBITDA margins to remain weak at 13-15% in 2020-22, due to the industry oversupply for cement in Thailand and chemical products globally. However, we think SCGP's EBITDA margin will gradually improve from 14% in 2016 and 17% in 2019 to 21-22% in 2020-22, backed by the projected capacity growth and margin expansion on the back of lower energy and raw material costs, as well as a lower interest expense post SCGP's IPO in October 2020.

Exhibit 5: SCC's EBITDA, net profit, and EBITDA margin



Sources: SCC; FSSIA estimates

### Petrochemical margin outlook remains challenging in 2020-22E

SCC's chemical products can be divided into four key groups: 1) ethylene chain products, including polyethylene (PE) and the downstream high density polyethylene (HDPE), low density PE (LDPE), linear LDPE (LLDPE), and polyvinyl chloride (PVC); 2) propylene chain products, including polypropylene (PP), propylene oxide (PO), and methyl methacrylate (MMA); 3) the butadiene-based synthetic rubber elastomers and solution styrene-butadiene rubber (SSBR); and 4) the benzene-based styrene monomer (SM).

Exhibit 6: SCC's chemical capacity as of May 2020

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020E	2021E
	(ktpa)										
Chemicals - upstream											
Ethylene	1,700	1,700	1,700	1,700	1,700	1,700	1,800	1,800	1,800	1,800	2,100
Propylene	1,200	1,200	1,200	1,200	1,200	1,200	1,250	1,250	1,250	1,250	1,300
Chanda Asri (30% stake)											
Ethylene	600	600	600	600	600	860	860	860	860	900	900
Propylene	320	320	320	320	320	470	470	470	470	490	490
Chemicals - downstream											
HDPE	920	920	920	920	920	920	920	920	920	920	920
PP	720	720	720	720	720	720	720	720	720	720	720
PVC (Thai, Indo, Vietnam) (90% stake in TPC)	886	886	886	886	886	886	886	886	886	886	886
Chemicals - downstream (JV)											
LLDPE (Dow JV)	650	650	650	650	650	650	650	650	650	650	650
Specialty elastomers (Dow JV)	220	220	220	220	220	220	220	220	220	220	220
Propylene oxide (Dow JV)	390	390	390	390	390	390	390	390	390	390	390
SSBR (BST JV)	0	0	50	50	50	100	100	100	100	100	100
LLDPE cast sheet film (Mitsui Tocello JV)	0	0	0	15	15	15	15	15	15	15	15
MMA (Mitsui Rayon JV)	175	175	175	175	175	175	175	175	175	175	175
Cast sheets (Mitsui Rayon JV)	20	20	20	20	20	20	20	20	20	20	20
HDPE/LLDPE (CAP JV)	336	336	336	336	336	336	336	336	736	736	736
PP (CAP JV)	480	480	480	480	480	480	480	480	590	590	590
SM (CAP JV)	340	340	340	340	340	340	340	340	340	340	340

Sources: SCC; FSSIA estimates

Since posting a peak quarterly net profit in 2Q16, SCC's net profit from its chemical unit has continued to decline due to poorer product margins as a result of a large new supply influx of PE and PP.

Exhibit 7: Quarterly net profit breakdown by segment

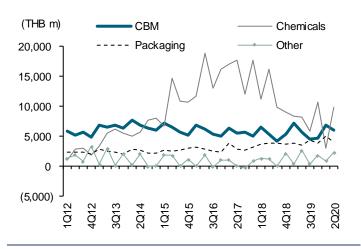
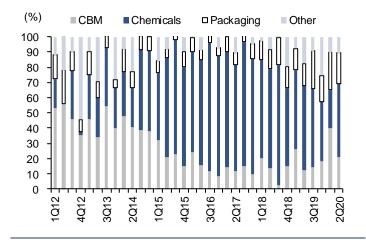


Exhibit 8: Quarterly net profit breakdown by segment (%)



Source: SCC Source: SCC

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Among SCC's key downstream product groups, only its PVC (886ktpa capacity) margin has been in an upcycle since Apr-19, while the margins of the remaining downstream groups have been in downcycles since 2018. These include: 1) PE (HDPE, LLDPE), its largest downstream product group; 2) the PP group, its second largest product group; 3) the synthetic rubber group; and 4) the SM group.

Exhibit 9: Prices of SCC's key chemical products

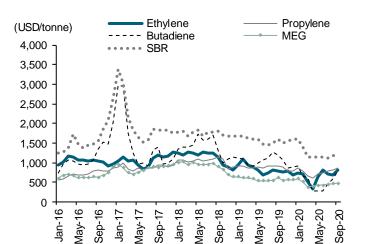
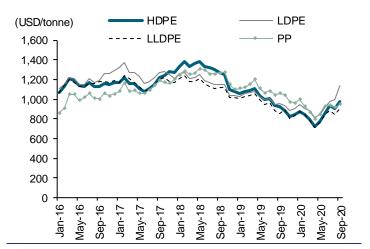


Exhibit 10: Prices of SCC's key PE and PP products

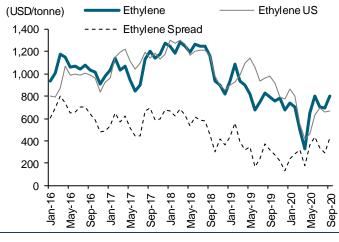


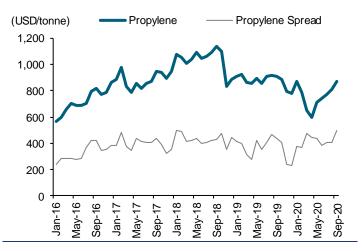
Source: Bloomberg

Source: Bloomberg

Ethylene margin remains bleak in 2020E onward. While SCC has a relatively integrated ethylene chain for its upstream capacity (2.7mtpa) vs its downstream capacity (2.5mtpa), according to our estimate, we think SCC's chemical EBITDA remains exposed to the global ethylene margin cycle, which has been in a downcycle since 2018. The ethylene-naphtha margin has declined from USD800/t in 1Q16 to its bottom at below USD200/t in 1H20.

Exhibit 11: Prices of ethylene in Asia vs US and the ethylene- Exhibit 12: Propylene price and propylene-naphtha margin naphtha margin





Source: Bloomberg

Source: Bloomberg

While the ethylene-naphtha margin has recently started to recover, we think an upcoming wave of new supply, mainly in China from the naphtha-based ethylene plants, will continue to pressure the ethylene-naphtha margin in 2020-22.

Similarly, the propylene-naphtha margin has weakened since 4Q18 after a supply influx and weaker demand for automotive parts – one of the key applications for propylene downstream products.

Exhibit 13: Global ethylene capacity addition by feedstock

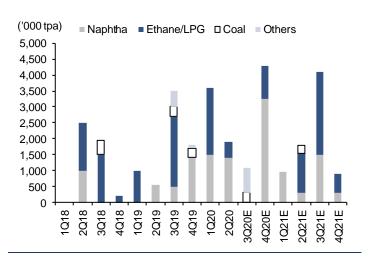
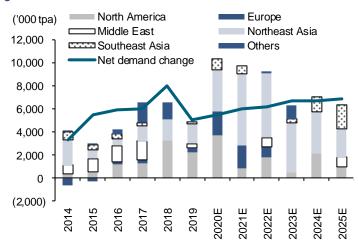


Exhibit 14: Global ethylene supply addition vs demand growth



Source: Extracted from PTTGC's investor presentation

Source: Extracted from PTTGC's investor presentation

**PE product chain margins.** Since the beginning of 2020, the PE-naphtha margins have risen sharply from their bottoms in 4Q19, driven by the rising demand for single-use plastics after the COVID-19 outbreak and the online and e-commerce packaging boom. However, we project the PE-naphtha margins to start softening in 2H20 onward due to the influx of new supplies.

Exhibit 15: Polyethylene supply addition by region

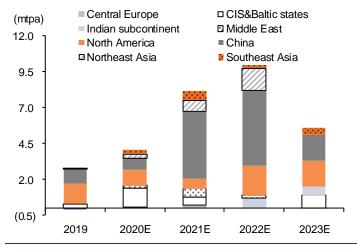
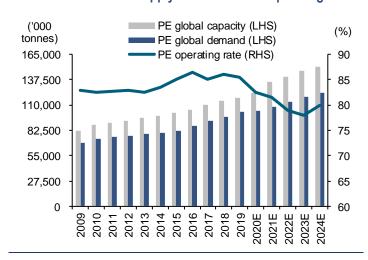


Exhibit 16: Global PE supply vs demand and operating rate



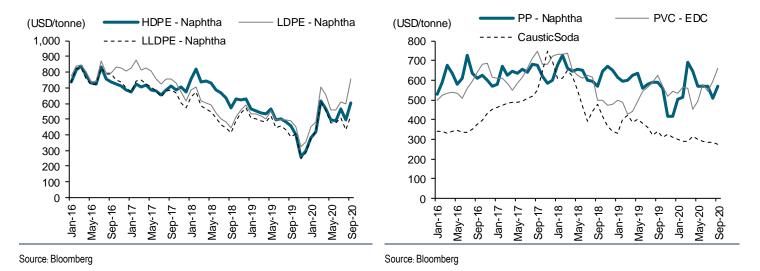
Source: Extracted from PTTGC's investor presentation

 $Source: Extracted \ from \ PTTGC's \ investor \ presentation$ 

In contrast, the PP-naphtha margin has been much more resilient than the PE-naphtha margin, due to the more limited supply on the market. While the PE-naphtha margins have ranged from USD280-800/t during 2016-1H20, the PP-naphtha margin has hovered between USD420/t and USD730/t. We believe the PP-naphtha margin will continue to stay above USD500/t in 2021-22, driven by limited new supply and an improving demand for automotive and construction materials.

**PVC** margin is expected to remain healthy in 2021-22. SCC's third largest chemical product group, PVC, has seen its margin in the upcycle range of USD400-620/t since Apr-19, thanks to the sharp drop in supply from the coal-based PVC in China and the resurgent demand from the construction material sector. We project PVC-ethylene dichloride (EDC) to remain at a healthy level above USD500/t in 2021-22, thanks to the projected strong demand in China.

Exhibit 17: Margins of HDPE, LDPE, and LLDPE over naphtha Exhibit 18: PP-naphtha, PVC-EDC, and price of caustic soda



Synthetic rubber could provide a surprising upside in 2021-22. SCC has chemical exposure to synthetic rubber applications via its 50%-owned JV with Dow Chemical, which owns and operates specialty elastomer and SSBR plants. While SCC's capacities for these two products are relatively small (220ktpa for specialty elastomers and 110ktpa for SSBR), the company suffered net losses from those products in 1H20 due to the demand collapse of the automotive tire segment as a result of the COVID-19 outbreak.

Exhibit 19: Butadiene price, butadiene-naphtha, and SBR-naphtha margins

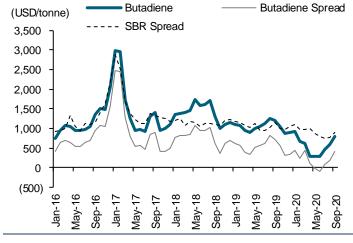
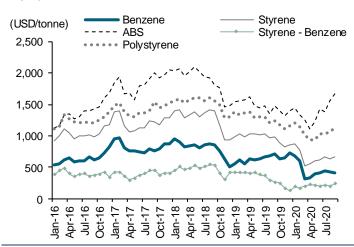


Exhibit 20: Benzene, Styrene, ABS, Styrene – Benzene, Polystyrene



Source: Bloomberg Source: Bloomberg

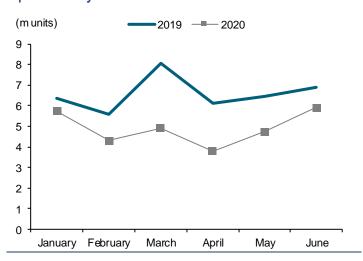
SM – SCC's last main chemical chain, with a 340ktpa capacity, is projected to witness a margin recovery in 2021-22. The margin recovery should be driven by the y-y global demand improvement for automobiles, including both electric vehicles and conventional oil-based internal combustion engine vehicles. According to the International Organization of Motor Manufacturing (OICA), global car production is projected to improve by 10-15% y-y in 2021, and we think the prices and margins of SBR and butadiene will recover from their bottoms starting in 2H20 onward.

Exhibit 21: Thailand's car exports

(m units) 1.4 1.2 1.0 8.0 0.6 0.4 0.2 0.0 2015 2016 2018 2013 2014 2017 2011 202E 2021

Sources: Thai Automotive Industry Association, FSSIA estimates

Exhibit 22: Sales/registration of new vehicles in countries represented by the OICA



Source: International Organization of Motor Vehicle Manufacturers (OICA)

While the margins of PE (HDPE, LDPE, and LLDPE) and PP over naphtha, SCC's two largest downstream products, are projected to soften in 2H20 onward, we project SCC's chemical EBITDA in 2020-22 to improve from THB22.6b in 2020 up to THB26b in 2021 and THB26.8b in 2022.

The key drivers to counter the downcycle margin impacts for SCC's chemical EBITDA include 1) the feedstock flexibility to use up to 30% liquefied petroleum gas (LPG) and 70% naphtha for its upstream naphtha crackers; 2) competitive naphtha cost thanks to the low oil price, which we project at USD40/bbl in 2020 and USD50/bbl in 2021-22; and 3) SCC's high-value added products of film grade PE and PP.

Exhibit 23: Annual EBITDA breakdown by segment

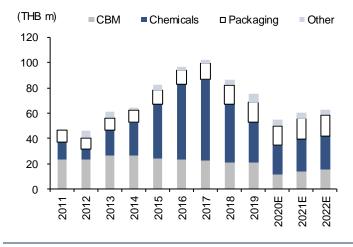
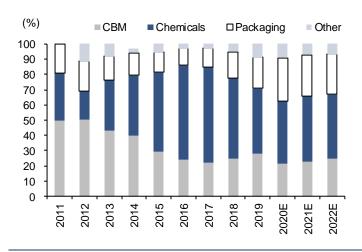


Exhibit 24: Annual EBITDA breakdown by segment (%)



Sources: SCC; FSSIA estimates

Sources: SCC; FSSIA estimates

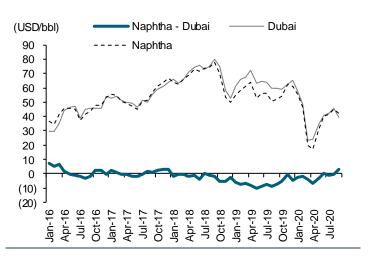
As one of the leading naphtha-based petrochemical producers in Asia, we believe SCC will benefit from the expected low naphtha and LPG costs in 2021-22, given 1) the low oil price of USD50/bbl in 2021-22E, due to the weak demand and oversupply outlook that would result in a continued oversupply of naphtha; and 2) the shale gas oversupply in the US that has depressed the prices of gas and LNG globally. As LPG is a gas product – a combination of butane and propane produced from US shale gas – we think the price of LPG will remain low in 2021-22.

According to management, SCC has the operational flexibility to use up to 30% LPG and 70% naphtha as feedstock for its upstream naphtha crackers (2.9mtpa capacity) in Thailand and Indonesia via its 30% stake in Chandra Asri (CAP ID). Hence, the projected low prices of naphtha and LPG should help offset the weaker margin outlook of PE/PP in 2021-22, in our view.

### Exhibit 25: Prices of naphtha and LPG

# (USD/tonne) Naphtha LPG 800 700 600 500 400 200 100 0 Ray-18 Ray-18 Ray-18 Ray-10 Ray-18 Ray

### Exhibit 26: Naphtha price discount to Dubai crude oil price



Source: Bloomberg Source: Bloomberg

### New chemical growth projects could enhance SCC's feedstock competitiveness.

While we remain bearish on the global industry margin outlook for PE/PP post 2020, based on the projected industry oversupply, we think SCC's chemical EBITDA should continue to grow, or at least sustain at the current level post 2023, after SCC's two new capacity growth projects commence their commercial operation dates (COD).

Exhibit 27: SCC's new capacity projects





Source: SCC

Project #1: Debottlenecking of Map Ta Phut Olefins Company (MOC). SCC will debottleneck one of its two naphtha crackers with a current upstream capacity of 0.9mtpa ethylene and 0.8mtpa propylene, and a downstream capacity of 0.4mtpa HDPE and 0.4mtpa PP. MOC is a JV between SCC (66% stake) and Dow Chemical; COD since March 2010. SCC plans to debottleneck its MOC complex to increase the upstream capacity by 20.5%, or 0.35mtpa, to 2.05mtpa by mid-2021, at an investment cost of USD485m.

**Project #2: Long Son Petrochemical Complex (LSP).** SCC had already completed 45% of its large-scale LSP project in Vietnam as of 2Q20. This project is 100%-owned by SCC and is a highly flexible feedstock chemical cracker with the capability to use up to 80% gas and 20% naphtha as feedstock for the plant. LSP's COD is scheduled in 2023 with a near-complete integration of its upstream (1.6mtpa) and downstream (1.35mtpa) capacities.

Exhibit 28: SCC's petrochemical complex in Vietnam

SCC's new Vietnam petrochemical complex	Location: Long Son Island, Baria-Vung Tau				
	(USD m)				
Total investment cost	5,400				
Debt to equity (x)	1.50				
Equity investment	2,160				
Capacity		(ktpa)			
Olefins		1,600			
HDPE		450			
LLDPE		500			
PP		400			
Key feedstock			(%)		
Ethane			50		
Propane			30		
Naphtha			20		
Commercial starting date			2023E		

Sources: SCC; FSSIA estimates

While we are not positive on the capacity growth potential from the LSP project, given the uncertainty of the margin outlook post 2023E, we think SCC should greatly benefit from its higher feedstock flexibility by using a more competitive feedstock mix between gas and naphtha.

We estimate that SCC will be able to increase its capability to use gas feedstock – from the current 30% (LPG) for its MOC and Rayong Olefins Company (ROC) naphtha crackers in Thailand – by up to 67%, after the LSP and MOC debottlenecking projects are complete.

Exhibit 29: Chemical feedstock comparison of SCC vs PTTGC

	SCC - VN complex	SCC - current	PTTGC
	(%)	(%)	(%)
Gas	67	30	55
Naphtha	33	70	45

Sources: Companies; FSSIA estimates

We think SCC's two growth projects, particularly LSP, could bring the feedstock competitiveness of its chemical plants in Thailand (MOC and ROC), Vietnam (LSP), and Indonesia (CAP), up to par with, or possibly even exceed, PTT Global Chemical (PTTGC, BUY TP THB50)'s. PTTGC should complete its new Map Ta Phut retrofit project expansion in 2020, which will add naphtha-based capacity vs SCC's gas-based capacity addition.

Exhibit 30: Chemical production yield comparison (SCC vs PTTGC) as of 2Q20

Product yield	SCC	PTTGC
	(%)	(%)
Gas type	LPG	Ethane
Gas yield	55	75
Naphtha yield	71	54
Ethylene	38	37
Propylene	33	17

Sources: Companies; FSSIA estimates

### Cement and building material oversupply continues

Cement and building materials (CBM) has long been SCC's core business. However, the post-financial crisis net profits from SCC's CBM unit have continued to decline due to the chronic oversupply in the Thai cement market, despite SCC's multiple capacity expansions via both greenfield investments and M&As in ASEAN countries. Its CBM unit generated only THB5.5b net profit in 2019 – a nine-year low – due to the weaker demand for cement and ceramics in Asia and Thailand. Net profit contributions from the CBM unit to SCC's total net profit has plunged from 56% in 2012 down to only 13% in 2018 and 17% in 2019.

We project the CBM unit's net profit contributions to rise from THB5.5b in 2019 to THB7.6b in 2020, THB7b in 2021, and THB6.9b in 2022, thanks to the projected lower energy costs and higher production efficiency that should partly offset the weak cement demand.

Exhibit 31: Annual net profit breakdown by segment

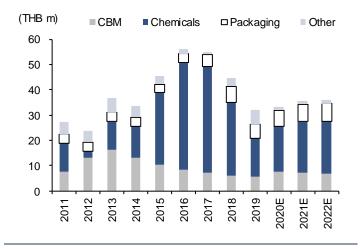
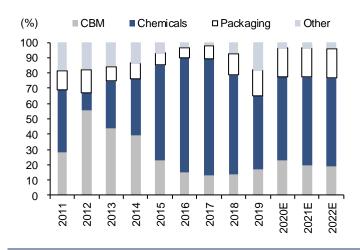


Exhibit 32: Annual net profit breakdown by segment (%)



Sources: SCC; FSSIA estimates

Sources: SCC; FSSIA estimates

We believe SCC's cement unit will continue to face a weak demand outlook across ASEAN countries where the company has cement plants, including Thailand, Laos, Indonesia, Cambodia, Myanmar, and Vietnam.

Similarly, in the building material segment, we think SCC could face a weak demand outlook for its ceramics (SCC currently has a 210m sqm capacity), lightweight concrete, and other construction materials.

Exhibit 33: SCC's CBM capacity

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020E	2021E
Cement	(tpa)										
Grey cement (TH,KH,MM,ID,LA,VN)	24	24	24	24	27	27	34	34	34	34	34
White cement (TH,VN)	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
Mortar	2.1	2.1	2.1	3.2	4.1	6.6	6.6	7.6	7.6	7.6	7.6
Building products	(m sqm)										
Ceramic tiles	149	149	225	225	225	225	225	210	210	214	214
Ceiling & wall products (TH)	60	68	86	99	99	100	100	107	107	107	107
Lightweight concrete (TH,ID)	15	15	21	27	27	27	27	27	27	27	27
Modular homes (Sekisui Heim JV)	200	200	300	300	300	300	300	300	300	300	300

Sources: SCG; FSSIA estimates

**Thailand cement market remains in the doldrums.** In Thailand, the cement market has long been in a chronic oversupply since 1997, thanks to the weak demand growth and relatively stable saturated cement consumption per capita at 455kg/person as of 1H20, according to the Thai Cement Manufacturing Association (TCMA).

Exhibit 34: Thailand's grey cement production and demand

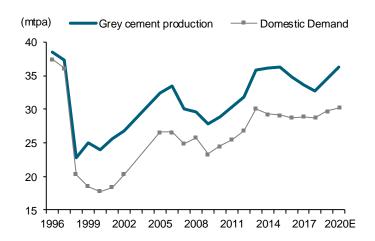
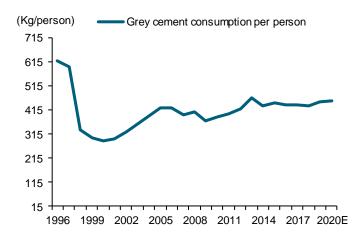


Exhibit 35: Thailand's grey cement demand per capita



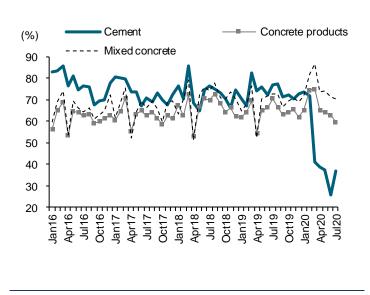
Source: TCMA Source: TCMA

In 2019, cement production in Thailand amounted to only 34.51mtpa vs the domestic demand of 29.75mtpa, resulting low utilisation rates of 70-80% during 2018-19. When the COVID-19 outbreak hit the country, cement utilisation rates plunged to 26% in June and have yet to recover to the 70-80% pre-COVID-19 levels.

Exhibit 36: Thailand's cement capacity

		Clinker	
		(mtpa)	(ktpa)
SCC	Thaluang	3.1	8.0
	Khaowong	3.8	10.0
	Kaengkhoi	7.3	19.0
	Thungsong	6.9	18.0
	Lampang	2.1	5.5
Total - SCC		23.2	60.5
SCCC	Saraburi	14.8	38.5
TPIPL	Saraburi	13.0	33.5
Asia Cement	Saraburi	5.0	14.0
Jalaprathan Cement	Taklee	1.2	3.0
Jalaprathan Cement	Chaa Am	1.2	3.1
Thai Pride Cement	Saraburi	1.0	2.5
Globe Cement	Saraburi	0.8	2.2
Total - Thailand		60.2	157.3

Exhibit 37: Thailand's utilisation rates of cement, concrete products, and mixed concrete



Source: TCMA

Source: TCMA

We project a cement demand decline of -3% y-y in Thailand, before growing to 4% y-y in 2021, driven by the government segment, which currently accounts for 38-42% of the total cement demand. We project the cement demand in ASEAN markets to be much stronger than Thailand's in 2021-22, since we project those countries' lockdowns to end by mid-2021, thereby allowing cement demand growth to return to its normal level.

Exhibit 38: Thailand's cement demand

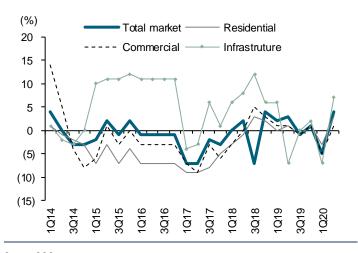


Exhibit 39: Regional cement demand



Source: SCC Source: SCC

Cement demand growth outlook in Thailand in 2020-22. We believe Thailand's cement demand growth will rise to 4% y-y in 2021, backed by the rising demand for cement from the government's infrastructure projects that we expect to grow at a high 10% y-y in 2021. The Thai government has set aside over THB1.9t in funds for 44 megaprojects. We expect infrastructure projects and commercial property developments to boost the demand for cement, with less demand from residential property projects, in our view.

Exhibit 40: Thailand's megaprojects - 44 investment projects

	No. of projects	Fiscal budget	Borrowing	PPP*	Investment	Total
	(no.)	(THB m)	(THB m)	(THB m)	(THB m)	(THB m)
Approved by the cabinet						
- Under construction	17	169,176	475,268	126,037	11,848	782,329
Motorway: Pattaya-Mabtaput						
Motorway: Bang-pa-in - Saraburi - Nakornratchasima						
Motorway: Bangyai - Kanchanaburi						
- In preparation	12	43,085	286,432	23,679	59,543	412,739
Approved by PPP* pending cabinet approval	2	32,960	168,095		19	201,073
Pending to propose to the cabinet	13	14,569	439,356		76,245	530,170
Total 44 investment projects	44	259,790	1,369,151	149,716	147,655	1,926,311

<sup>\*</sup> Public-private partnership Source: Ministry of Transport

Exhibit 41: Investment projects approved by the cabinet – currently under construction

Project under construction	Expected completion		Expected completion
Air transport:		Dual-track railways:	
Suvarnabhumi Airport Phase 2 and Mae Sot Airport (Tak)	2020	Prachuap Khiri Khan-Chumphon	2021
		Nakhon Pathom - Hua-Hin	2021
Marine transport:		Hua-Hin - Prachuap Khiri Khan	2021
Single rail transfer operator (SRTO) - Leam Chabang Port	25-Oct-19	Lop Buri - Park Nam Pho	2022
		Mab Kabao - Jira Junction	2023
Others:			
Intermodal Facility - Chiang Khong (Chiang Rai)	2020	High-speed railway:	
		Thailand-Chinese (Bangkok - Nakorn Ratchasima - Nong Khai)	2023
Motorways:			
Pattaya-Map Ta Phut	2020	Mass-transit system and commuter rail lines	
Bang-pa-in - Saraburi - Nakornratchasima	2020 / 2021	Red line (Bang Sue - Rangsit)	2020
Bangyai - Kanchanaburi	2021 / 2022	Pink line (Khae Rai - Min Buri)	2021
		Yellow line (Lad Prao - Samrong)	2021
		Orange line (Thailand Cultural Centre - Min Buri)	2022

Source: Ministry of Transport

Of the 44 megaprojects – which are scheduled to be completed staggeringly from 2020-26 – we think the main projects that will have a significant impact on the cement demand in Thailand are the motorway projects, which include:

- 1) The committed projects of Pattaya Map Ta Phut, Bang-pa-in Saraburi Nakornratchasima, and Bangyai Kanchanaburi, scheduled to commence their CODs during 2020-22;
- 2) The motorway projects under expropriation and environmental impact assessment (EIA) processes, including M8, M82, M5, M7, and M9.

Exhibit 42: Projects under expropriation and EIA

	Road	Project	<b>Distance</b>		- Project cost		¬ Status	Expected
	Rodu	Froject	Distance	PPP	Government	Private	Status	timeline
			(Km)	Method	(THB m)	(THB m)		
1	Intercity Motorway (M8)	Nakhon Pathom - Cha Am	109	Net cost	60,715	n/a	E&E	RSD 2024
2	Intercity Motorway (M82)	Bang Khun Thian - Ban Phaeo	25	Net cost	31,570	16,100	E&E	RSD 2024
3	Elevated Tollway Utraphimuk (M5)	Rangsit - Bang Pa-in	18	n/a	28,108	n/a	E&E	RSD 2025
4	Motorway (M7)	Srinakarindra - Suvarnabhumi Airport	19	n/a	37,054	n/a	PPP reports	RSD 2025
5	West 2nd Outer Ring Road (M9)	Bang Khun Thian - Bangbuathong	38	n/a	56,002	n/a	Detail design	RSD 2026

\*E&E are Expropriation & EIA approvals Source: Ministry of Transport

Based on SCC's guidance, we estimate that the cement demand in Thailand will grow 3-4% CAGR in 2020-25, based on the cement consumption per km distance for the different megaprojects. While the cement demand growth from the government's infrastructure projects (38-42% of Thailand's total cement demand in 2019) is unlikely to sufficiently offset the weak demand from the residential sector (40-45%), we think the megaprojects should at least sustain SCC's EBITDA in 2020-24E.

Exhibit 43: Megaprojects' cement consumption

Mega infrastructure project	Cement consumption	on (tonne per km)
	Min	Max
High-speed railway (1.4-metre gauge)	5,000	5,500
Motorway (8-lane)	3,000	5,000
Bangkok mass rapid transport	2,500	3,500
Dual-track railway (1-metre gauge)	400	450

Sources: SCC; FSSIA estimates

Despite the continued weak demand for SCC's CBM, the CBM EBITDA margin recently recovered from its bottom at 9% in 3Q18 to the 13-14% range in 1H20, thanks to 1) the lower energy cost (66% of total production cost for cement) due to the lower coal price; and 2) a higher proportion of self-developed, biomass-based energy for cement production, which has risen from less than 5% in 2010 to over 15% as of 1H20. We estimate that SCC's biomass energy could save up to 10-20% of its energy cost, or 6-12% of the total cement production cost, supporting its CBM unit's EBITDA margin.

Exhibit 44: EBITDA margins of SCC's key segments

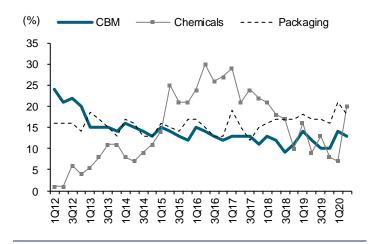
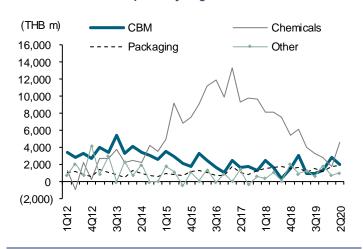


Exhibit 45: SCC's net profit by segment



Source: SCC Source: SCC

### Packaging is the most promising segment

SCC announced that it would spin off its subsidiary, SCG Packaging Plc (SCGP), in an upcoming IPO on the Stock Exchange of Thailand (SET), estimated to occur in October 2020. With registered post-IPO capital of THB4.42b at a THB1 par value and an estimated IPO price range of THB33.5-35, we expect SCGP to be included in the SET50 index.

SCC plans to maintain at least a 70% stake in SCGP post IPO, down from 99% pre IPO. The proceeds are expected to be used to fund its growth projects and future mergers and partnerships (M&P), based on the company's IPO filing.

Exhibit 46: Key packaging capacity

	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020E	2021E
Packaging	(ktpa)										
Packaging paper	1,880	1,880	1,956	2,306	2,306	2,306	2,557	2,557	3,965	3,965	4,585
Box	795	885	1,013	1,013	1,013	1,013	1,070	1,070	1,070	1,070	1,070
Machine glazed paper (Nippon Paper JV)	0	0	0	43	43	43	43	43	43	43	43
Flexible packaging (Prepack + Batico) (m sqm)	0	0	0	254	648	714	727	817	817	901	954
Rigid packaging	0	0	0	0	0	0	10	10	25	25	25
Printing & writing paper (Fibrous)	570	570	570	570	570	491	491	491	491	491	491

Source: SCC

SCGP has two key business divisions: the integrated packaging chain (IPC) and fibrous chain (FB). Within IPC, there are three major segments: packaging paper, fibre-based packaging (FBP), and polymer and performance packaging (PPP).

As of 2019, SCGP's capacity included 1) IPC: 3.965mtpa of packaging paper, 1.07mtpa of corrugated boxes, and 817m sqm of flexible packaging; and 2) FB: 491ktpa of printing and writing paper. The declining capacity of FB is due to the continued decline in industry demand for printing and writing paper, while SCGP has successfully shifted most of its capacity into IPC.

Exhibit 47: Quarterly EBITDA

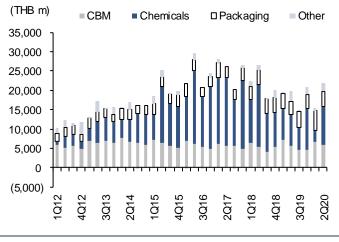
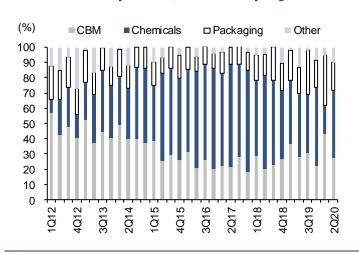


Exhibit 48: Quarterly EBITDA, breakdown by segment



Source: SCC Source: SCC

As a group, SCGP contributed THB89b, or 20% of SCC's total revenue, and accounted for 20% of the total EBITDA and 16% of the total net profit in 2019. SCGP's revenue and net profit contributions to SCC have continued to improve since 2017, as SCGP has grown its business, mostly via acquisitions, in many countries.

### Exhibit 49: Quarterly net profit

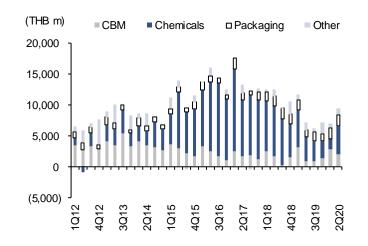
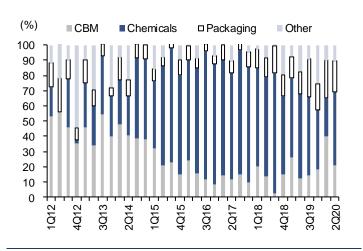


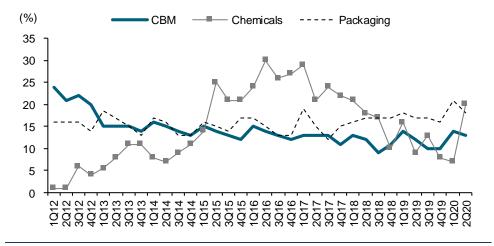
Exhibit 50: Quarterly net profit breakdown



Source: SCC Source: SCC

Superior margin sustainability is key for SCGP. We believe SCGP will have increasingly more strategic importance to SCC's overall net profit and EBITDA growth, and particularly sustainability, given that 1) SCGP's EBITDA, net profit, and EBITDA margin have been far more stable than the EBITDA margins of SCC's two cyclical business units (chemicals and CBM), which have seen highly volatile EBITDA and EBITDA margins since 2012.

Exhibit 51: Quarterly EBITDA margins



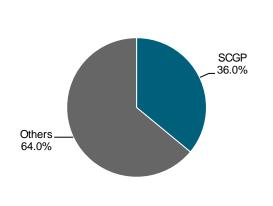
Source: SCC

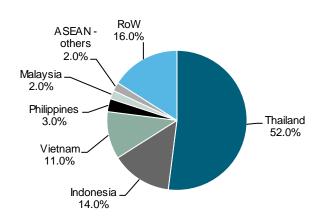
Given the more sustainable margin and less cyclical nature of SCGP, SCC plans to invest its capex in 2020-23 to expand SCGP's capacity using the upcoming IPO cash raised. It expects to fund an estimated THB20-30b in annual capex for SCGP's capacity expansions via both brownfield expansions and M&Ps.

According to Frost and Sullivan, SCGP is currently the largest packaging producer in ASEAN, with a 36% market share as of 1H20. Thailand remains SCGP's largest market, accounting for 52% of total revenue in 1H20, with large-scale production facilities for FB and packaging paper in Thailand due to their close proximities to the raw material (pulp) and recovered paper (RCP).

### Exhibit 52: SCGP's market share in ASEAN market (1H20)

Exhibit 53: Revenue breakdown by country (1H20)



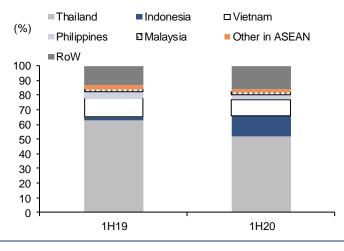


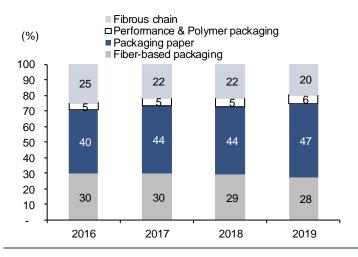
Source: SCGP Source: SCGP

SCGP successfully expanded into the Indonesian market – SCGP's second largest market with 14% of SCGP's 1H20 total revenue – via the acquisition of PT Fajar Surya Wisesa (FASW IJ) in mid-2019. Vietnam is SCGP's third largest market, accounting for 11% of SCGP's 1H20 revenue. SCGP entered the packaging market in Vietnam in 2007. These three markets – Thailand, Indonesia, and Vietnam – will be the key markets where SCGP focuses its capacity growth in 2020-24, in our view.

Exhibit 54: SCGP's revenue breakdown by country

Exhibit 55: Revenue breakdown by product segment





Source: SCGP Source: SCGP

**Shifting from sunset FB to sunrise IPC.** IPC is SCGP's current core business, accounting for 80% of total revenue in 2019, up from 75% in 2016, as SCGP has gradually shifted its capacity from the sunset FB, as a result of the continued decline in FB demand, to the sunrise IPC, thanks to the rising demand for packaging from e-commerce and online markets.

### Exhibit 56: SCGP's revenue breakdown by segment

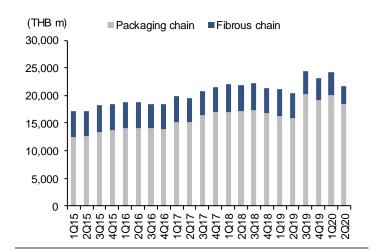
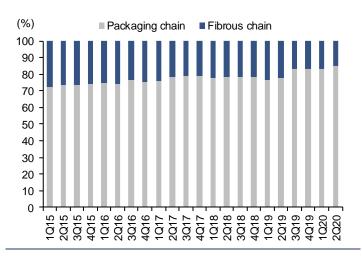


Exhibit 57: SCGP's revenue breakdown by segment (%)



Source: SCGP Source: SCGP

As of 2Q20, SCGP generated 85% of its revenue from IPC, up from 80% in 2019 and 83% in 1Q20. However, in terms of EBITDA, the IPC unit generated 96% of SCGP's total EBITDA of THB4b in 2Q20, thanks to the higher EBITDA margin of IPC at 21% vs only 4% for FB.

Exhibit 58: SCGP's quarterly EBITDA breakdown

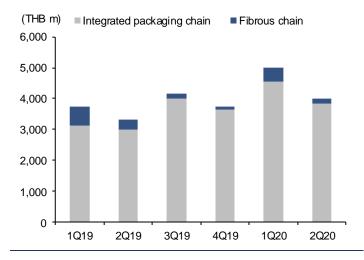
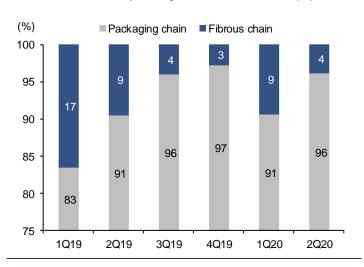


Exhibit 59: SCGP's quarterly EBITDA breakdown (%)



Source: SCGP Source: SCGP

**Key drivers for SCGP.** We believe the growth outlook for both SCGP and SCC will mainly depend on the growth outlook of the IPC unit, given the bleak net profit outlook for the chemical and CBM units due to the weak demand and industry oversupply.

The four key drivers for SCGP include 1) low raw material costs; 2) potential margin expansions from improving production efficiency; 3) rising industry demand; and 4) organic and inorganic capacity growth.

Exhibit 60: SCGP's net profit and EBITDA projections

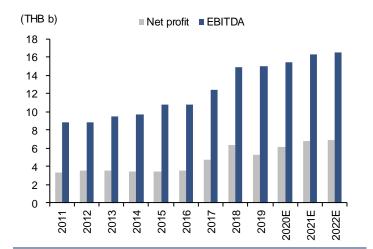
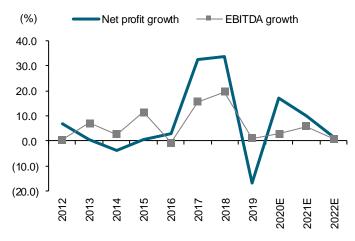


Exhibit 61: SCGP's net profit growth and EBITDA growth



Sources: SCGP; FSSIA estimates

Sources: SCGP; FSSIA estimates

**Driver #1: Margin expansion and sustainability.** While the CBM unit's EBITDA margin has continued to decline since 2012, and the chemical unit's EBITDA margin has already peaked in 2016, we think SCGP's EBITDA margin will still have room to improve, given the potential cost savings for both raw materials and energy.

Exhibit 62: SCGP's production cost breakdown (2019)

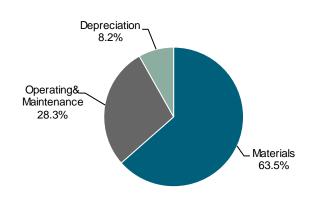
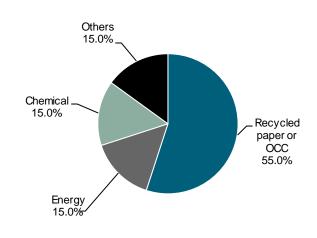


Exhibit 63: Cost structure; packaging paper (2019)



Source: SCGP

Source: SCGP

The raw material (RM) cost accounted for 63.5% of SCGP's total cost in 2019. For packaging paper, the RM cost – which accounted for 55% of the total cost and is comprised of 95.4% RCP and 4.6% pulp – is from pulp produced from SCGP's own plants in its Fibrous Chain Facility in 2019. SCGP's own RCP production plants supplied 54.5% of the total RCP RM cost, while the remaining 45.5% was from imported waste paper, mainly from the US – using the benchmark price of American Old Corrugated Containers (AOCC) – Europe, and Japan.

As of 2019, energy and chemical costs equally represent 15% of the total RM cost, while depreciation expenses account for less than 10% of the total cost of packaging paper. Based on SCGP's guidance, the energy cost is mostly comprised of the coal cost – SCGP consumes around 2mtpa of coal imported from Indonesia annually.

SCGP has increased its consumption of biomass fuels, including wood chips, sugarcane bagasse, straw and other agricultural wastes, to produce its own electricity, thereby reducing its coal cost (2/3 of the total energy cost) and the amount of electricity purchased from the power grid (10%).

Exhibit 64: Raw material cost of packaging paper (2019)

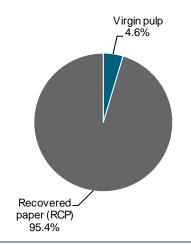
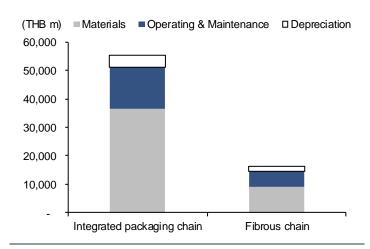


Exhibit 65: Cost structures of IPC and FB



Source: SCGP Source: SCGP

SCGP has continued to reduce its RCP cost by operating numerous RCP plants in the ASEAN markets where its packaging paper plants are located. As of 2Q20, SCGP owned and operated 69 RCP plants in ASEAN markets, altogether supplying 95.4% of the total required RCP RM cost for its 4mtpa packaging paper production capacity in ASEAN.

Exhibit 66: SCGP's plants (2Q20)

Recycling plants for recovered paper

(no.) Packaging plant breakdown by business 40 Packaging paper plant 7 Corrugated container plants 21 2 Containerboard plants 6 Performance & polymer packaging plants Fibre-based packaging plants 4 Packaging plant breakdown by location 40 Thailand 28 Vietnam 6 4 Indonesia Philippines 1 Malaysia 1

Exhibit 67: SCGP's packaging capacity and facilities (2Q20)

Labour	15,000	persons
Corrugated containers	1.1	m tonnes/year
Packaging paper	4.0	m tonnes/year
Flexible packaging	817	m sqm/year
Rigid packaging	25,100	m tonnes/year
Food service products	26	m pieces/day
Eucalyptus	48,000	rai

Source: SCGP Source: SCGP

There were two key events in 2017 that led to a sharp price drop in AOCC as a result of the Chinese government attempting to prevent further environmental contamination in the country. First, China started banning the import of foreign waste, including electronics, industrial waste, waste paper, and plastics. Second, China implemented a 1.5% contaminant limit for Chinese paper producers, effectively prohibiting the import of AOCC from the US, which contains contaminants at a 3-5% higher level than the contaminant limit set by the Chinese government.

We think SCGP's RCP plant ownership in countries where it has operating packaging paper plants may not provide it with a significant cost advantage over the imported AOCC and virgin pulp RMs. However, we believe SCGP's backward integration of the RCP plants should help sustain its EBITDA margin, given the high degree of RM cost management.

69

Exhibit 68: Prices of packaging paper vs recovered paper

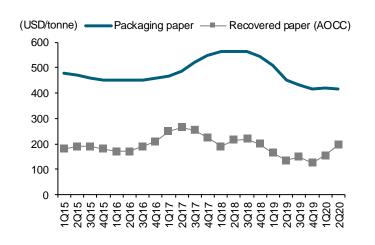
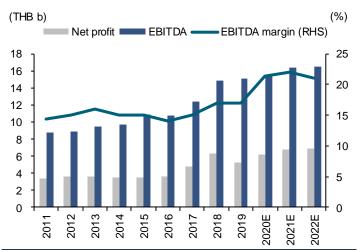


Exhibit 69: SCGP's net profit, EBITDA, and EBITDA margin



Source: SCGP Source: SCGP; FSSIA estimates

RM costs remain the largest cost component for SCGP's IPC and FB. RM cost accounted for 58% of the PPP cost in IPC chain and 50.0% of the FB cost. For PPP, the RMs are the plastics resins and films purchased from other producers, while for FB, the RM is the virgin pulp that SCGP secures mostly from eucalyptus plantations.

Exhibit 70: Cost structure: polymer and performance packaging (2019)

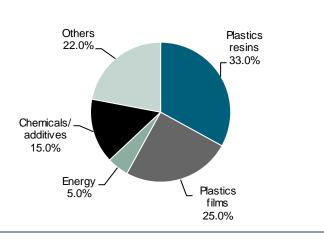
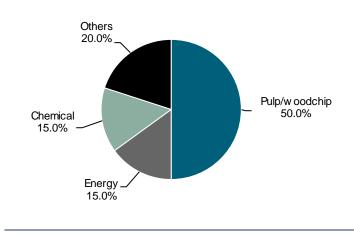


Exhibit 71: Cost structure: fibrous chain (2019)



Source: SCGP Source: SCGP

Since 2015, SCGP has strategically shifted its production facilities from FB to IPC due to the structural decline in demand for printing and writing papers due to the advent of digital books.

The FB chain's quarterly EBITDA margin has declined from 14% in 1Q15 down to 3-4% in 2019-1H20, and is likely to continue its downward trend in 2021-22. Fortunately, SCGP has successfully ramped up the production of its IPC unit to replace FB, resulting in an improving overall EBITDA margin from 14% in 2011 to 17% in 2019.

### Exhibit 72: Quarterly EBITDA margin by segment

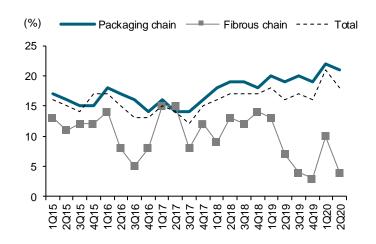
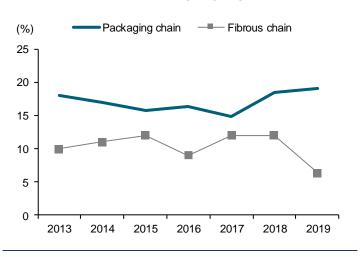


Exhibit 73: Annual EBITDA margin by segment



Source: SCGP Source: SCGP

**Driver #2: Volume growth.** According to SCGP's IPO filling, the company plans to use part of the IPO proceeds to invest in the capacity expansions of four committed projects.

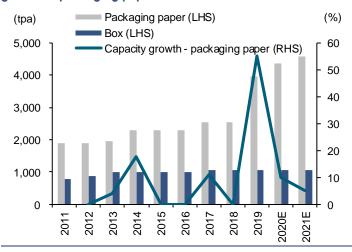
**Upstream packaging paper.** The first two projects are capacity expansions for packaging paper:

- 1) A 0.4mtpa capacity expansion of the containerboard and duplex paper plant at Surabaya in Indonesia under Fajar, scheduled to commence its COD in 1Q21, increasing Fajar's capacity by 29% with capex of THB1.9b;
- 2) A 0.22mtpa capacity expansion (+96% from existing capacity) of the United Pulp & Paper (UPCC) plant for containerboard in the Philippines, with capex of THB5.1b (COD scheduled in 2Q21), according to management's guidance.

**Downstream packaging.** There are two major capacity expansions planned for SCGP's downstream PPP.

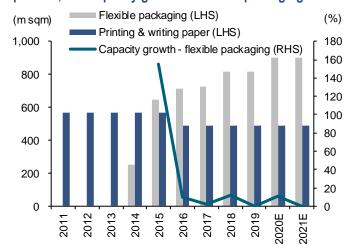
- 1) The capacity expansion of Batico in Vietnam by 84m sqm (+19.8% from 424m sqm p.a.) with capex of THB562m, COD scheduled in 4Q20;
- 2) The 53m sqm capacity expansion of Prepack in Thailand (+18% from 295m sqm p.a.), COD scheduled in 3Q21.

Exhibit 74: Packaging paper and box capacities vs capacity growth of packaging paper



Sources: SCC; FSSIA estimates

Exhibit 75: Flexible packaging and printing & writing paper capacities, and capacity growth of flexible packaging



Sources: SCC; FSSIA estimates

We project 0.22mtpa capacity growth for SCGP's upstream packaging paper, bringing its capacity to 4.6mtpa, and 137m sqm capacity growth for its downstream PPP, bringing it to 945m sqm p.a. These four committed growth projects would require a total of THB8.15b capex, based on the company's guidance.

Exhibit 76: SCGP's four committed growth projects (as of 3Q20)

Project		Unit
Capacity expansion	Packaging paper	
Project	PT Dayasa Asia Prima (DAP)	
Product	Containerboard and duplex pa	per
Location	Surabaya	
Country	Indonesia	
Capacity	400,000	tonne/year
CAPEX	1,868	THB m
Start construction - COD	Jul 2019 - Jul 2020	
% completion	43	%
Project	United Pulp & Paper (UPPC)	
Product	Containerboard	
Location	Bulacan	
Country	Philippines	
Capacity	220,000	tonne/year
CAPEX	5,115	THB m
Start construction - COD	Dec 2018 - Nov 2020	
% completion	34	%
Capacity expansion	Performance & Polymer packa	ging
Project	Tin Thanh Packaging JSC (BA	TICO)
Product	Flexible packaging	
Location	Long An	
Country	Vietnam	
Capacity	84	m sqm/year
CAPEX	562	THB m
Start construction - COD	Sep 2018 - Mar 2020	
% completion	55	%
Project	Prepack (PREPACK)	
Product	Flexible packaging	
Location	Samut Sakhon	
Country	Thailand	
Capacity	53	m sqm/year
CAPEX	600	THB m
Start construction - COD	Jun 2020 - Jul 2021	
% completion	7	%

Source: SCGP

Exhibit 77: Integrated packaging sales, breakdown by industry (1H20)

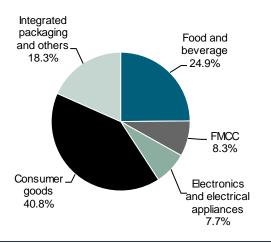
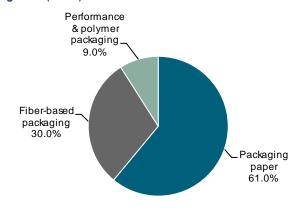


Exhibit 78: Integrated packaging sales, breakdown by segment (1H20)



Source: SCGP Source: SCGP

**Driver #3: Market expansions.** SCGP has continued to expand its market presence in ASEAN countries and entered many new consumer packaging markets via multiple M&As. We believe SCGP now has a well-balanced product portfolio in terms of products (packaging paper, PPP, FBP, and fibrous), geographical market presence (Thailand, Indonesia, Vietnam, Philippines), and end-consumer industries (food and beverages, electronics and electrical appliances, consumer goods, and fast-moving consumer goods).

Exhibit 79: ASEAN market value for packaging

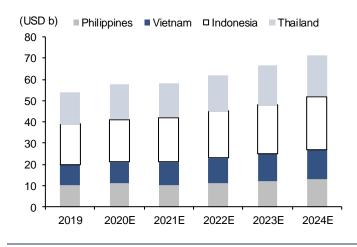
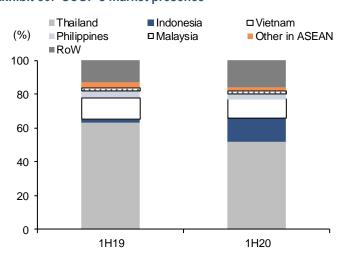


Exhibit 80: SCGP's market presence



Sources: SCGP; Frost & Sullivan

Source: SCGP

### Pricey acquisition underscores long-term strategic business sustainability

Unlike SCC's other two cyclical business units – chemicals and CBM – we believe SCGP's recent M&As to expand its capacity and market presence, both horizontally and vertically, are right strategic moves to enhance not only SCGP's but also SCC's long-term net profit growth and sustainability.

Exhibit 81: Sales volume of integrated packaging paper

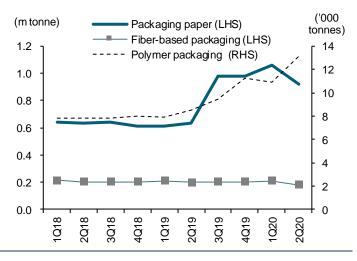
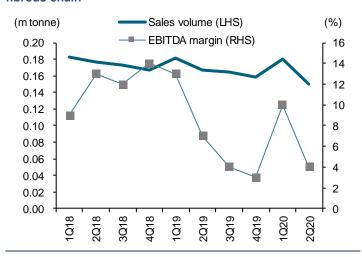


Exhibit 82: Fibrous sales volume and EBITDA margin of fibrous chain



Source: SCGP Source: SCGP

### Improving long-term sustainability at the expense of short-term lower ROEs and

**ROAs.** Since 2018, SCGP's IPC unit has seen continued higher sales volumes for all three units, particularly for the packaging paper and PPP units, which witnessed strong sales volume growth since 2Q19 after the acquisition of Fajar (packaging paper; May-19) at an implied EV/EBITDA of 7.6x and P/E of 12.3x, and the acquisition of Visy (PPP; Aug-19) at an implied EV/EBITDA of 13x.

Exhibit 83: SCGP's lower EBITDA margin than Thai local United Paper was due to SCGP's market expansion strategy

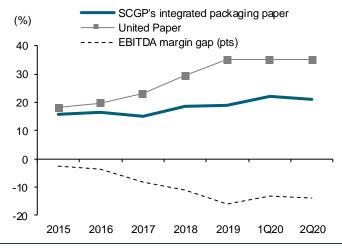
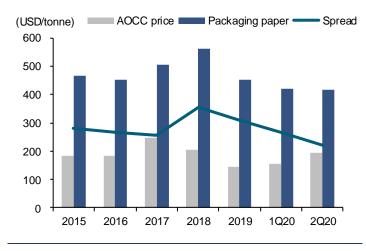


Exhibit 84: EBITDA margin of upstream packaging paper has expanded since 2017 due to the decline in AOCC price



Sources: SCGP; UTP; SET Source: SCGP

Fajar's acquisition valuation of 7.6x EV/EBITDA was at the high-end valuation range of 4-14x EV/EBITDA, and Visy's valuation of 13x was higher than the 6-12x EV/EBITDA average range for its peers at the time. We believe the valuation premiums paid by SCGP for both acquisitions were justified by:

- 1) The future capacity growth opportunities, similar to the capacity expansions of Fajar and UPCC:
- 2) Market penetration into high-growth countries: Indonesia, the Philippines, and Vietnam;
- 3) The client bases of the multinational corporations that SCGP could immediately access and tap into to grow its packaging business;
- 4) SCGP's focus on long-term net profit and margin sustainability at the expense of a lower EBITDA margin in the near term. An example is the rising EBITDA margin for United Paper (UTP TB, not rated) since 2017, after the price of AOCC sharply declined thanks to China's ban on waste imports and its imposition of a stricter contamination limit for Chinese paper producers since 2017. However, we believe the upward EBITDA margin trend could reverse when the AOCC price starts to rise again, potentially leading to a narrower EBITDA margin gap between the upstream UTP and the integrated and more diversified SCGP;

Exhibit 85: Comparisons of business model, market presence, and financial data

Company	SCGP	Mondi	Smurfit Kappa	United paper	Union Paper Carton	Nine Dragon Paper	Lee & Man Papers	Amcor
Founded	1975	1967	2005	n/a	n/a	n/a	n/a	n/a
Country location	5	30	35	n/a	n/a	n/a	n/a	n/a
Location	ASEAN	Global	Global	Thailand	Thailand	China/Vietnam/US	China/Vietnam/US	Global
Corrugated container	/	/	/		/	/	1	/
Retail display packaging	/	/	/		/			
Packaging paper	/	/	/	/		/	/	
Non-packaging paper	/	/	/			/		
Flexible packaging	/	/	/					/
Rigid packaging	/	/	/					/
Food container	/	/	/					/
Graphic paper	/	/	/			/	/	
Pulp	/	/	/			/	1	
Recycled paper factory	/	/	/			/	/	
	(%)	(%)	(%)	(%)	(%)	(%)	(%)	(%)
2019 EBITDA margin	16.9	23.2	17.7	35	12	14.8	23.2	14.1
2019 ROE	9.1	21.7	16.7	29.6	22.6	10.4	13.5	13.8
2019 ROA	4.5	9.8	4.9	24.6	22.6	4.8	7.5	3.3

Sources: SCGP; Bloomberg

5) SCGP's more integrated value chain in the packaging paper segment is comparable to the global players Mondi (MNDI LN) and Smurfit Kappa (SKG ID). However, unlike MNDI and SKG, SCGP's packaging business recently underwent a faster and more strategic expansion following a slow growth phase since its inception in 1975-2010. Hence, we think that over the next 10 years, SCGP could emerge as one of the leading players in the global packaging industry, with a large-scale capacity and ASEAN market presence.

Positioned as a well-integrated packaging player in ASEAN per se, we think SCGP's strategy – to increase its business integration and expand its geographical presence, as well as grow its product categories and industrial customer base – should create medium- to long-term value for shareholders in the form of improving ROEs and ROAs after its heavy capex cycle since 2017, following its multiple asset acquisitions.

### Packaging valuation is estimated at THB42

Given the similarities between their business models (fully integrated) and market presence (regional and global), we think SCGP's closest peers are MNDI and SKG – both being leading global diversified packaging companies.

Based on Bloomberg's consensus estimates (12 Oct 2020), MNDI and SKG are trading at 7.9x and 7.5x FY21E EV/EBITDA, respectively. We estimate SCGP to have a value of THB178b, based on 9x FY21E EV/EBITDA post IPO, implying a THB42 value per share for SCGP using 4.255b shares outstanding post IPO and 1,127.6m-1,296.7m shares offered (26.5-29.3% of the post-IPO shares outstanding).

SCGP is currently offering 1,127.6m IPO shares and an overallotment of 169.1m shares, and is scheduled to be listed on the SET within October 2020.

Exhibit 86: SCGP's peers comparison

0	BBG	Des	Share	Target	Harida	Market	3Y	P	E	RO	DE	P	BV	EV/EB	ITDA
Company	code	Rec	Price	Price	Upside	Сар	EPS CAGR	20E	21E	20E	21E	20E	21E	20E	21E
			(LCY)	(LCY)	(%)	(USD m)	(%)	(x)	(x)	(%)	(%)	(x)	(x)	(x)	(x)
ASIA															
Eastern Polymer	EPG TB	BUY	4.76	6.30	32	428	1.0	13.2	14.4	9.6	8.7	1.3	1.3	9.2	9.5
Polyplex Pcl	PTL TB	NA	24.3	NA	NA	698	4.0	NA	8.7	NA	17.7	NA	1.4	NA	5.9
United Paper Pcl	UTP TB	NA	14.3	NA	NA	298	5.3	9.6	9.1	28.6	26.8	2.6	2.3	6.8	6.5
Lee & Man Paper	2314 HK	NA	5.99	NA	NA	3,180	2.2	8.3	7.4	11.7	12.3	1.0	0.9	7.0	6.4
Nine Dragons Paper	2689 HK	NA	9.92	NA	NA	5,915	106.2	9.6	8.1	9.9	11.9	1.0	0.9	7.4	6.6
ASIA avg						10,519	77.4	7.9	7.4	9.3	11.4	0.9	0.9	6.2	5.9
Europe															
Ds Smith Plc	SMDS LN	NA	304.7	NA	NA	5,386	(1.6)	9.3	12.7	12.4	8.6	1.2	1.1	6.5	7.7
Mondi Plc	MNDI LN	NA	1666.5	NA	NA	10,447	(6.3)	15.2	13.6	14.0	14.7	2.1	1.9	8.6	7.9
Smurfit Kappa Group	SKG ID	NA	3140	NA	NA	9,692	NA	15.5	13.7	16.7	16.8	2.5	2.3	8.0	7.5
Europe avg						36,044	29.1	9.6	9.2	10.1	9.8	1.4	1.3	5.4	5.3
USA															
Amcor Plc-Cdi	AMC AU	NA	15.91	NA	NA	17,862	NA	17.9	16.4	18.2	23.0	3.5	3.8	12.4	11.8
Amcor Plc	AMCR US	NA	11.41	NA	NA	17,896	13.9	17.9	16.4	18.2	23.0	3.5	3.8	12.4	11.8
Ardagh Group Sa	ARD US	NA	13.98	NA	NA	3,304	(278.8)	10.4	9.4	NA	85.4	NA	199.7	8.1	7.6
USA avg						75,107	57.9	8.9	8.1	8.5	14.5	1.6	10.4	6.2	5.9
Polymer packaging															
Ds Smith Plc	SMDS LN	NA	304.7	NA	NA	5,386	(1.6)	9.3	12.7	12.4	8.6	1.2	1.1	6.5	7.7
Polymer packaging a	vg					5,386	5,386	(1.6)	9.3	12.7	12.4	8.6	1.2	1.1	6.5
Overall average						127,055	65.45	15.30	13.59	15.62	24.89	0.52	2.36	6.40	6.03

Prices as of 12 Oct 2020

Sources: Bloomberg; FSSIA estimates

### SCC's valuation

We reinitiate coverage on SCC with a BUY rating and SOTP-based TP of THB445. We employ different FY21E EV/EBITDA multiples for each of SCC's business units to reflect their distinct risk-reward ratios and industry business cycles.

For the chemical sector, we apply only 6x FY21E EV/EBITDA, a slightly higher valuation than the distressed 4x EV/EBITDA level, to reflect our bearish view on SCC's chemical net profit and EBITDA outlook in 2021-22E, given the continued industry oversupply outlook.

For the CBM unit, we use 11x FY21E EV/EBITDA to reflect our negative view on the industry demand outlook for CBM, which we think could extend into 2021-22, due to the negative impact from the COVID-19 pandemic.

For the packaging unit, we apply 9x FY21E EV/EBITDA, which we think is justified based on SCGP's improving margin outlook in 2021-22E, driven by its growing business integration, capacity expansion, and the highly favourable industry demand outlook from the rising e-commerce and online marketing trend.

Exhibit 87: SCC's SOTP valuation

SOTP valuation	End-21E		% total	Valuation basis
	(THB m)	(THB/shr)	(%)	
Cement & building material	385,973	322	72	11x FY21E EV/EBITDA
Petrochemical	156,064	130	29	6x FY21E EV/EBITDA
Paper	125,834	105	24	9x FY21F EV/EBITDA
Total core	667,871	557	125	
Investment (P/B)	189,371	158	35	1.5x FY21E P/BV
Gross SOTP	857,242	714	160	
Net debt	(261,100)	(218)	(49)	Net debt at end-FY21E
Minority	(61,947)	(52)	(12)	
Net SOP value	534,195	445	100%	

Sources: SCC; FSSIA estimates

**Exhibit 88: Key assumptions** 

	2020E	2021E	2022E
Brent oil price (USD/bbl)	40	50	50
Naphtha price (USD/tonne)	450	498	480
Ethylene price (USD/tonne)	690	850	821
Propylene price (USD/tonne)	762	860	823
HDPE-naphtha (USD/tonne)	440	417	430
PP-naphtha (USD/tonne)	470	422	450
Packaging paper-AOCC (USD/tonne)	270	260	250
Cement demand growth (%)	(3)	3	3

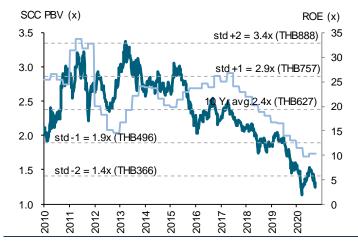
Source: FSSIA estimates

### Exhibit 89: SCC's one-year forward EV/EBITDA band

### SCC EV/EBITDA (x) 20 std + 2 = 17.9x18 std + 1 = 15.4x16 14 avg=12.8x 12 10 std - 2 = 7.8x8 6 2020 2010 2012 201

Sources: SCC; FSSIA estimates

Exhibit 90: SCC's one-year forward P/BV band and ROE



Sources: SCC; FSSIA estimates

Exhibit 91: SCC's peers comparison

	BBG		Share	Target		Market	2Y	Р	E	RO	E	PI	BV	EV/ EE	BITD
Company	code	Rec	Price	price	Upside	Сар	EPS CAGR	20E	21E	20E	21E	20E	21E	20E	2
			(LCY)	(LCY)	(%)	(USD m)	(%)	(x)	(x)	(%)	(%)	(x)	(x)	(x)	(
THAILAND															
Indorama Ventures	IVL TB	BUY	24.20	44.00	82	4,357	57.6	17.7	10.1	5.8	9.4	1.0	1.0	6.2	6
Irpc Pcl	IRPC TB	BUY	2.08	4.20	102	1,363	(291.3)	5.5	5.0	9.1	9.5	0.5	0.5	5.4	4
Ptt Global Chem	PTTGC TB	BUY	40.75	50.00	23	5,863	17.2	19.1	11.5	3.4	5.8	0.7	0.7	7.0	5
Siam Cement	SCC TB	BUY	348.00	445.00	28	13,391	3.5	12.6	11.8	11.5	11.6	1.4	1.3	12.8	12
Eastern Polymer	EPG TB	BUY	4.72	6.30	33	424	1.0	13.1	14.3	9.6	8.7	1.2	1.2	9.1	ç
Vinythai Public	VNT TB	NA	22.90	NA	NA	872	(10.0)	12.2	9.8	10.3	12.2	1.2	1.1	6.2	5
THAILAND avg						26,270	(0.2)	14.5	11.1	8.5	9.8	1.1	1.1	9.7	9
INDIA															
Reliance Industries	RIL IN	NA	2,287.50	NA	NA	206,005	(0.8)	32.8	35.3	10.6	8.2	3.3	2.7	20.2	19
INDIA avg			, , ,			206,005	(0.8)	32.8	35.3	10.6	8.2	3.3	2.7	20.2	19
							(0.0)	22.0							
TAIWAN															
Formosa Plastics	1301 TT	NA	80.00	NA	NA	17,692	(2.8)	28.3	16.0	5.4	9.3	1.5	1.4	21.5	16
Nan Ya Plastics	1303 TT	NA	60.50	NA	NA	16,669	8.2	26.0	17.8	5.2	8.0	1.4	1.3	17.1	16
Formosa Chem&Fi	1326 TT	NA	68.80	NA	NA	14,009	(7.8)	28.5	19.3	3.9	5.5	1.2	1.2	15.3	15
Formosa Petro	6505 TT	NA	81.60	NA	NA	27,004	(0.8)	153.4	23.4	1.4	9.8	2.6	2.3	47.7	14
TAIWAN avg	5555 11	1471	01.00			75,374	(0.6)	72.6	19.7	3.6	8.5	1.8	1.7	28.7	15
17 utt7 ut utg						10,014	(0.0)	12.0	10.7	0.0	0.0	1.0		20	
SOUTH KOREA															
Hanwha Solutions	009830 KS	NA	46,250.00	NA	NA	6,455	40.1	17.4	12.7	7.0	9.1	1.2	1.1	10.4	8
Lotte Chemical	011170 KS	NA	219,000.00	NA	NA	6,554	(6.8)	34.8	11.0	1.6	5.2	0.6	0.5	7.5	4
Lg Chem	051910 KS	NA	628,000.00	NA	NA	38,706	59.8	36.0	24.9	7.3	9.6	2.6	2.4	11.8	9
Kumho Petro	011780 KS	NA	145,000.00	NA	NA	3,857	12.6	9.9	9.6	15.7	14.3	1.5	1.3	6.8	6
Oci	010060 KS	NA	62,000.00	NA	NA	1,291	(193.1)	NA	19.4	(3.9)	3.4	0.6	0.6	70.5	8
SOUTH KOREA avg	01000010	INA	02,000.00	INA	INA	56,863	41.0	31.2	20.8	6.9	9.2	2.1	1.9	12.2	8
OOO III KOKEA uvg						30,003	71.0	01.2	20.0	0.5	3.2	2.1	1.5	12.2	_
MALAYSIA															
Petronas Chem	PCHEM MK	NA	6.06	NA	NA	11,681	(4.0)	30.1	19.5	5.5	7.7	1.6	1.5	11.4	8
Lotte Chemical Titan	TTNP MK	NA	2.35	NA NA	NA NA	1,287	(24.6)	235.0	28.3	0.2	1.1	0.5	0.4	3.5	2
MALAYSIA avg	TITAL IVIIX	1471	2.00	14/1	1471	12,967	(6.1)	50.5	20.4	5.0	7.1	1.5	1.4	10.6	8
MALA TOTA dvg						12,301	(0.1)	30.3	20.4	0.0		1.0	1.4	10.0	
Average (Asia)						377,480	5.4	39.8	27.8	8.3	8.5	2.6	2.2	19.6	16
incluge (close)															
US															
Eastman Chem	EMN US	NA	84.52	NA	NA	11,440	(11.7)	14.9	12.1	11.7	14.4	1.9	1.7	10.0	9
Dupont De Nem	DD US	NA	58.32	NA	NA	42,797	8.4	19.3	17.0	5.8	6.8	1.1	1.1	12.2	11
Celanese	CE US	NA	116.37	NA	NA	13,765	(14.1)	16.6	12.8	28.7	35.8	5.2	4.8	12.7	10
Westlake Chem	WLK US	NA	68.26	NA NA	NA NA	8,716	(39.5)	38.5	25.0	4.0	5.2	1.4	1.4	9.9	8
VV COLIANG CHEIH	WLK US	11/7	00.20	INA	INA	0,710	(33.3)	55.5	20.0	7.0	J.Z	1.4	1.4	5.5	- 0

Alpek Sa De Cv	ALPEKA MM	NA	16.04	NA	NA	1,594	(40.6)	17.9	9.6	3.2	8.0	0.8	0.8	6.7	5.6
Avg (US)						109,832	(4.4)	21.7	17.5	13.9	16.7	3.0	2.8	12.8	11.3
ME/Europe															
Saudi Basic	SABIC AB	NA	97.40	NA	NA	77,899	(53.2)	124.7	32.5	1.5	5.8	1.8	1.8	13.6	10.6
Saudi Kayan	KAYAN AB	NA	11.24	NA	NA	4,495	(186.8)	NA	NA	(8.3)	(0.6)	1.2	1.2	19.1	11.9
Yanbu National	YANSAB AB	NA	61.20	NA	NA	9,178	(38.9)	62.6	31.0	3.5	7.9	2.3	2.4	18.9	13.7
Industries Qatar	IQCD QD	NA	9.90	NA	NA	16,223	(28.4)	32.1	22.9	4.9	6.6	1.8	1.8	26.7	20.4
Basf Se	BAS GR	NA	54.44	NA	NA	58,640	(19.1)	22.7	15.5	3.1	7.1	1.3	1.3	10.4	8.7
Arkema	AKE FP	NA	94.38	NA	NA	8,548	(19.9)	18.1	13.9	6.9	8.7	1.3	1.3	8.0	7.2
Lanxess Ag	LXS GR	NA	50.52	NA	NA	5,200	(8.3)	17.0	13.1	7.5	8.1	1.3	1.2	6.4	5.5
Solvay Sa	SOLB BB	NA	76.94	NA	NA	9,555	(7.2)	14.1	12.7	2.8	7.4	1.0	1.0	6.9	6.5
Avg (ME/Europe)						189,737	(37.9)	66.0	23.2	2.7	6.5	1.6	1.6	13.3	10.5
Petrochem under co	verage					25,397	0.1	14.1	10.7	8.2	9.4	1.1	1.1	9.5	8.8
Average (all)						677,049	(8.3)	44.2	24.8	7.6	9.2	2.4	2.1	16.8	13.8

Share prices as of 14 Oct 2020 Sources: Bloomberg; FSSIA estimates

### **Financial Statements**

Siam Cement

Profit and Loss (THB m) Year Ending Dec	2018	2019	2020E	2021E	2022E
Revenue	478,438	437,980	452,914	479,900	493,105
Cost of goods sold	(359,716)	(331,821)	(339,160)	(357,316)	(366,122)
Gross profit	118,722	106,159	113,754	122,583	126,982
Other operating income	-	-	-	-	-
Operating costs	(55,093)	(56,902)	(58,842)	(62,348)	(64,063)
Operating EBITDA	63,629	49,258	54,912	60,236	62,919
Depreciation	(23,747)	(23,932)	(23,660)	(26,703)	(29,745)
Goodwill amortisation	0	0	0	0	0
Operating EBIT	39,881	25,326	31,252	33,533	33,174
Net financing costs	(6,835)	(6,442)	(5,302)	(4,272)	(4,759)
Associates	15,047	11,632	9,713	10,145	11,052
Recurring non operating income	26,870	20,479	19,002	19,899	21,294
Non recurring items	0	0	0	0	0
Profit before tax	59,916	39,363	44,953	49,159	49,709
Tax	(7,269)	(6,167)	(5,286)	(5,852)	(5,798)
Profit after tax	52,647	33,197	39,667	43,307	43,910
Minority interests	(7,899)	(1,182)	(6,620)	(7,799)	(8,028)
Preferred dividends	0	0	0	0	0
Other items	-	-	- -	-	-
Reported net profit	44,748	32,014	33,047	35,508	35,883
Non recurring items & goodwill (net)	0	0	0	0	0
Recurring net profit	44,748	32,014	33,047	35,508	35,883
Per share (THB)					
Recurring EPS *	37.29	26.68	27.54	29.59	29.90
Reported EPS	37.29	26.68	27.54	29.59	29.90
DPS	18.00	14.00	15.00	15.50	15.50
Diluted shares (used to calculate per share data)	1,200	1,200	1,200	1,200	1,200
Growth					
Revenue (%)	6.1	(8.5)	3.4	6.0	2.8
Operating EBITDA (%)	(12.0)	(22.6)	11.5	9.7	4.5
Operating EBIT (%)	(18.7)	(36.5)	23.4	7.3	(1.1)
Recurring EPS (%)	(18.7)	(28.5)	3.2	7.4	1.1
Reported EPS (%)	(18.7)	(28.5)	3.2	7.4	1.1
Operating performance	( - /	( /			
Gross margin inc depreciation (%)	19.9	18.8	19.9	20.0	19.7
Gross margin of key business (%)	478,437.6	437,979.9	452,914.0	479,899.6	493,104.7
Operating EBITDA margin (%)	13.3	11.2	12.1	12.6	12.8
Operating EBIT margin (%)	8.3	5.8	6.9	7.0	6.7
Net margin (%)	9.4	7.3	7.3	7.4	7.3
Effective tax rate (%)	15.0	7.3 15.0	7.3 15.0	15.0	15.0
Dividend payout on recurring profit (%)	48.3	52.5	54.5	52.4	51.8
Interest cover (X)	46.3 9.8	52.5 7.1	9.5	12.5	11.4
Inventory days	60.1	64.5	58.1	54.0	54.8
	45.5			54.0 47.3	54.8 46.0
Debtor days Creditor days	45.5 48.2	52.5 57.7	50.1 53.8	47.3 46.2	46.0 46.8
Operating ROIC (%)	10.1	5.9	6.2	5.8	46.6 5.1
ROIC (%)	11.2	7.2	6.2 7.1	6.8	6.4
ROE (%)	16.6	11.5	11.5	11.6	11.1
ROA (%)		6.3			6.4
* Pre-exceptional, pre-goodwill and fully diluted	10.0	0.3	6.7	6.8	0.4
	2018-	2010	20205	2024E	20225
Revenue By Division (THB m)	2018	2019	2020E	2021E	2022E
Cement & Building Material	182,952	184,690	229,067	241,090	253,683
Chemicals	221,538	177,634	143,782	157,387	155,993
Packaging	87,255	89,070	79,945	81,283	83,279
Other	(13,307)	(13,414)	120	140	150

Sources: Siam Cement; FSSIA estimates

### **Financial Statements**

Siam Cement

Cash Flow (THB m) Year Ending Dec	2018	2019	2020E	2021E	2022
Recurring net profit	44,748	32,014	33,047	35,508	35,88
Depreciation	23,747	23,932	23,660	26,703	29,74
Associates & minorities	15,047	11,632	9,713	10,145	11,05
Other non-cash items	(0.004)	40.405	(7.044)	- (404)	(00)
Change in working capital	(8,831)	13,185	(7,011)	(491)	(238
Cash flow from operations	74,711	80,763	59,409	71,865	76,44
Capex - maintenance	(20,253)	(22,349)	(25,647)	(28,946)	(32,244
Capex - new investment	(131)	(57,404)	(52,084)	(46,910) 0	(42,787
let acquisitions & disposals	(205)	11,123	0	0	
Other investments (net) Cash flow from investing	(11,143) <b>(31,732)</b>	(4,271) <b>(72,902)</b>	(2) <b>(77,734)</b>	(75,855)	(75,031
Dividends paid	(22,800)	(19,800)	(16,800)	(18,600)	(18,600
Equity finance	(22,000)	(19,800)	(10,000)	(10,000)	(10,000
Debt finance	(3,790)	21,767	20,000	20,000	42,00
Other financing cash flows	(22,915)	(15,987)	(11,725)	(8,939)	(10,44
Cash flow from Financing	(49,505)	(14,020)	(8,525)	(7, <b>539</b> )	12,95
Non-recurring cash flows	(40,000)	(14,020)	(0,020)	(1,000)	12,00
Other adjustments	0	0	0	0	
let other adjustments	0	0	0	0	
Novement in cash	(6,526)	(6,159)	(26,849)	(11,529)	14,37
Free cash flow to firm (FCFF)	49,814.25	14,302.99	(13,022.42)	281.28	6,169.7
Free cash flow to equity (FCFE)	16,273.74	13,640.97	(10,049.16)	7,070.56	32,969.6
er share (THB)					
CFF per share	41.51	11.92	(10.85)	0.23	5.1
CFE per share	13.56	11.37	(8.37)	5.89	27.4
Recurring cash flow per share	69.62	56.31	55.35	60.30	63.9
Balance Sheet (THB m) Year Ending Dec	2018	2019	2020E	2021E	2022
angible fixed asset (gross)	569,620	584,507	666,959	749,410	831,86
ess: Accumulated depreciation	(322,154)	(278,521)	(302,181)	(328,884)	(358,629
angible fixed assets (Net)	247,466	305,986	364,777	420,526	473,23
ntangible fixed assets (Net)	0	0	0	0	410,20
ong-term financial assets	-	-	-	-	
nvest. In associates & subsidiaries	105,808	94,685	94,685	94,685	94,68
Cash & equivalents	50,381	44,222	17,373	5,843	20,21
VC receivable	63,915	62,166	62,166	62,166	62,16
nventories	60,817	56,411	51,499	54,256	55,59
Other current assets	2,157	1,587	6,627	7,018	7,20
Current assets	177,271	164,386	137,664	129,283	145,17
Other assets	59,242	69,676	69,678	69,678	69,67
otal assets	589,787	634,733	666,805	714,173	782,77
Common equity	277,097	280,215	296,462	313,370	330,65
Ainorities etc.	40,773	47,528	54,148	61,947	69,97
otal Shareholders' equity	317,869	327,743	350,610	375,317	400,62
ong term debt	151,315	155,361	175,361	195,361	225,36
Other long-term liabilities	12,803	20,124	20,124	20,124	20,12
ong-term liabilities	164,118	175,485	195,485	215,485	245,48
VC payable	48,992	55,887	44,014	46,370	47,51
Short term debt	53,860	71,581	71,581	71,581	83,58
Other current liabilities	4,948	4,037	5,115	5,420	5,56
Current liabilities	107,800	131,505	120,710	123,371	136,66
otal liabilities and shareholders' equity	589,787	634,733	666,805	714,173	782,77
let working capital	72,950	60,240	71,163	71,650	71,88
nvested capital	485,466	530,588	600,303	656,540	709,48
Includes convertibles and preferred stock which is being	treated as debt				
Per share (THB)					
Book value per share	230.91	233.51	247.05	261.14	275.5
angible book value per share	230.91	233.51	247.05	261.14	275.5
Financial strength					
Net debt/Equity (%)	48.7	55.8	65.5	69.6	72.
Net debt/total assets (%)	26.2	28.8	34.4	36.6	36.
Current ratio (x)	1.6	1.3	1.1	1.0	1.
CF interest cover (x)	3.4	12.0	8.9	13.6	16.
/aluation	2018	2019	2020E	2021E	2022
	9.3	13.0	12.6	11.8	11
Recurring P/E (x) *	44.0	16.7	16.2	15.0	14
Recurring P/E (x) * Recurring P/E @ target price (x) *	11.9		400	11.8	11
• ,,	9.3	13.0	12.6	11.0	
Recurring P/E @ target price (x) *		13.0 4.0	12.6 4.3	4.5	
Recurring P/E @ target price (x) * Reported P/E (x)	9.3				4
Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x)	9.3 5.2	4.0	4.3	4.5	4 1
Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%) Price/book (x)	9.3 5.2 1.5	4.0 1.5	4.3 1.4	4.5 1.3	4. 1. 1. 12.
Recurring P/E @ target price (x) * Reported P/E (x) Dividend yield (%) Price/book (x) Price/tangible book (x)	9.3 5.2 1.5 1.5	4.0 1.5 1.5	4.3 1.4 1.4	4.5 1.3 1.3	4. 1. 1.

Sources: Siam Cement; FSSIA estimates

### Corporate Governance report of Thai listed companies 2019

EXCELLE	NT LEVEL											
AAV	ADVANC	AIRA	AKP	AKR	AMA	AMATA	AMATAV	ANAN	AOT	AP		
ARROW	BAFS	BANPU	BAY	BCP	BCPG	BOL	BRR	BTS	BTW	BWG		
CFRESH	CHEWA	CHO	CK	CKP	CM	CNT	COL	COMAN	CPALL	CPF		
CPI	CPN	CSS	DELTA	DEMCO	DRT	DTAC	DTC	EA	EASTW	ECF		
EGCO	GBX	GC	GCAP	GEL	GFPT	GGC	GOLD	GPSC	GRAMMY	GUNKUL		
HANA	HARN	HMPRO	ICC	ICHI	III	ILINK	INTUCH	IRPC	IVL	JKN		
JSP	K	KBANK	KCE	KKP	KSL	KTB	KTC	KTIS	LH	LHFG		
	LPN	MAKRO							MINT			
LIT			MALEE	MBK	MBKET	MC	MCOT	MFEC	PAP	MONO*		
MTC	NCH	NCL	NKI	NSI	NVD	NYT	OISHI	ОТО		PCSGH		
PDJ	PG	PHOL	PJW	PLANB	PLANET	PORT	PPS	PR9	PREB	PRG		
PRM	PSH	PSL	PTG	PTT	PTTEP	PTTGC	PYLON	Q-CON	QH	QTC		
RATCH	ROBINS**	RS	S	S&J	SABINA	SAMART	SAMTEL	SAT	SC	SCB		
SCC	SCCC	SCN	SDC	SEAFCO	SEAOIL	SE-ED	SELIC	SENA	SIS	SITHAI		
SNC	SORKON	SPALI	SPI	SPRC	SSSC	STA	STEC	SVI	SYNTEC	TASCO		
TCAP	THAI	THANA	THANI	THCOM	THIP	THREL	TIP	TISCO	TK	TKT		
TMB	TMILL	TNDT	TOA	TOP	TRC	TRU	TRUE	TSC	TSR	TSTH		
TTA	TTCL	TTW	TU	TVD	TVO	U	UAC	UV	VGI	VIH		
WACOAL	WAVE	WHA	WHAUP	WICE	WINNER							
VERY GO	OD LEVEL											
2S	ABM	ADB	AF	AGE	AH	AHC	AIT	ALLA	ALT	AMANAH		
AMARIN	APCO	APCS	AQUA	ARIP	ASAP	ASIA	ASIAN	ASIMAR	ASK	ASN		
ASP	ATP30	AUCT	AYUD	В	BA	BBL	BDMS	BEC	BEM	BFIT		
BGC	BGRIM	BIZ	BJC	BJCHI	BLA	BPP	BROOK	CBG	CEN	CENTEL		
CGH	CHG	CHOTI	CHOW	CI	CIMBT	CNS	COLOR	COM7	COTTO	CRD		
CSC	CSP	DCC	DCON	DDD	DOD	EASON	ECL	EE	EPG	ERW		
ESTAR	ETE	FLOYD	FN	FNS	FORTH	FPI	FPT	FSMART	FSS	FVC		
GENCO	GJS	GL	GLOBAL	GLOW**	GULF	HPT	HTC	HYDRO	ICN	IFS		
INET	INSURE	IRC	IRCP	IT	ITD***	ITEL	J	JAS*	JCK	JCKH		
JMART	JMT	JWD	KBS	KCAR	KGI	KIAT	KOOL	KWC	KWM	L&E		
LALIN	LANNA	LDC	LHK	LOXLEY	LRH	LST	M	MACO	MAJOR	MBAX		
MEGA	METCO	MFC	MK	MODERN	MOONG	MPG	MSC	MTI	NEP	NETBAY		
NEX	NINE	NOBLE	NOK	NTV	NWR	OCC	OGC	ORI	OSP	PATO		
PB	PDG	PDI	PL	PLAT	PM	PPP	PRECHA	PRIN	PRINC	PSTC		
PT	QLT	RCL	RICHY	RML	RWI	S11	SAAM	SALEE	SAMCO	SANKO		
SAPPE	SAWAD	SCG	SCI	SCP	SE	SFP	SIAM	SINGER	SIRI	SKE		
SKR	SKY	SMIT	SMK	SMPC	SMT	SNP	SONIC	SPA	SPC	SPCG		
SPVI	SR	SRICHA	SSC	SSF	SST	STANLY	STPI	SUC	SUN	SUSCO		
SUTHA	SWC	SYMC	SYNEX	T	TACC	TAE	TAKUNI	TBSP	TCC	TCMC		
TEAM	TEAMG	TFG	TFMAMA	THG	THRE	TIPCO	TITLE	TIW	TKN	TKS		
TM	TMC	TMD	TMI	TMT	TNITY	TNL	TNP	TNR	TOG	TPA		
TPAC	TPBI	TPCORP	TPOLY	TRITN	TRT	TSE	TSTE	TVI	TVT	TWP		
TWPC	UBIS	UEC	UMI	UOBKH	UP	UPF	UPOIC	UT	UWC	VNT		
WIIK	XO	YUASA	ZEN	ZMICO								
GOOD LE												
A	ABICO	ACAP***	AEC	AEONTS	AJ	ALUCON	AMC	APURE	AS	ASEFA		
AU	B52	BCH	BEAUTY	BGT	BH	BIG	BLAND	BM	BR	BROCK		
BSBM	BSM	BTNC	CCET	CCP	CGD	CHARAN	CHAYO	CITY	CMAN	CMC		
CMO	CMR	CPL	CPT	CSR	CTW	CWT	D	DIMET	EKH	EMC		
EPCO	ESSO	FE	FTE	GIFT	GLAND	GLOCON	GPI	GREEN	GTB	GYT		
HTECH	HUMAN	IHL	INGRS	INOX	JTS	JUBILE	KASET	KCM	KKC	KWG		
KYE	LEE	LPH	MATCH	MATI	M-CHAI	MCS	MDX	META	MGT	MJD		
MM	MVP	NC	NDR	NER	NNCL	NPK	NUSA	OCEAN	PAF	PF		
PICO	PIMO	PK	PLE	PMTA	POST	PPM	PROUD	PTL	RCI	RJH		
	RPC	RPH	SF		SGP		SLP	SMART	SOLAR	SPG		
ROJNA				SGF		SKN						
SQ	SSP	STI	SUPER	SVOA	TCCC	THE	THMUI	TIC	TIGER	TNH		
TOPP	TPCH	TPIPP	TPLAS	TQM	TTI	TYCN	UTP	VCOM	VIBHA	VPO		
WIN	WORK	WP	WPH	ZIGA								
	Score	Range		ı	Number of Lo	ogo			Description			
90-100			ΔΔΔΔ				Excellent					
80-89				ΔΔΔΔ			Very Good					
	70-				<del></del>				•			
					<b>AAA</b>				Good			
	60-			<b>AA</b>					Satisfactory			
	50-								Pass			
	Less th	nan 50			No logo give	n			-			

### Disclaimer:

The disclosure of the survey results of the Thai Institute of Directors Association ('IOD") regarding corporate governance is made pursuant to the policy of the Office of the Securities and Exchange Commission. The survey of the IOD is based on the information of a company listed on the Stock Exchange of Thailand and the Market for Alternative Investment disclosed to the public and able to be accessed by a general public investor. The result, therefore, is from the perspective of a third party. It is not an evaluation of operation and is not based on inside information.

The survey result is as of the date appearing in the Corporate Governance Report of Thai Listed Companies. As a result, the survey results may be changed after that date.

Source: Thai Institute of Directors Association (IOD); FSSIA's compilation

FSS International Investment Advisory Company Limited does not confirm nor certify the accuracy of such survey results.

\* CGR scoring should be considered with news regarding wrong doing of the company or director or executive of the company such unfair practice on securities trading, fraud, and corruption SEC imposed a civil sanction against insider trading of director and executive; \*\* delisted

### **Anti-corruption Progress Indicator**

CERTIFIED										
ADVANC	AIE	AKP	AMANAH	AP	APCS	AQUA	ARROW	ASK	ASP	AYUD
BAFS	BANPU	BAY	BBL	BCH	BCP	BCPG	BGRIM	BJCHI	BKI	BLA
BROOK	BRR	BSBM	BTS	BWG	CEN	CENTEL	CFRESH	CGH	CHEWA	CIG
CIMBT	CM	COM7	CPALL	CPF	CPI	CPN	CSC	DCC	DEMCO	DIMET
DRT	DTAC	DTC	EASTW	ECL	EGCO	FE	FNS	FSS	GBX	GC
GCAP	GEL	GFPT	GGC	GJS	GOLD	GPSC	GSTEEL	GUNKUL	HANA	HARN
HMPRO	HTC	ICC	IFS	INET	INSURE	INTUCH	IRPC	IVL	K	KASET
KBANK	KBS	KCAR	KCE	KGI	KKP	KSL	KTB	KTC	KWC	L&E
LANNA	LHK	LPN	LRH	М	MAKRO	MALEE	MBAX	MBK	MBKET	MC
MCOT	MFC	MINT	MONO	MOONG	MSC	MTI	NBC	NINE	NKI	NMG
NNCL	NSI	OCC	OCEAN	OGC	PAP	PATO	PB	PCSGH	PDG	PDI
PDJ	PE	PG	PHOL	PL	PLANB	PLANET	PLAT	PM	PPP	PPS
PREB	PRG	PRINC	PSH	PSTC	PT	PTG	PTT	PTTEP	PTTGC	PYLON
Q-CON	QH	QLT	QTC	RATCH	RML	S & J	SABINA	SAT	SC	SCB
SCC	SCCC	SCG	SCN	SE-ED	SELIC	SENA	SGP	SIRI	SIS	SITHAI
SMIT	SMK	SMPC	SNC	SNP	SORKON	SPACK	SPC	SPI	SPRC	SRICHA
SSF	SSI	SSSC	SST	STA	SUSCO	SVI	SYNTEC	TASCO	TCAP	TFG
TFI	TFMAMA	THANI	THCOM	THIP	THRE	THREL	TIP	TIPCO	TISCO	TKT
TMB	TMD	TMILL	TMT	TNITY	TNL	TNP	TNR	TOG	TOP	TPA
TPCORP	TRU	TRUE	TSC	TSTH	TTCL	TU	TVD	TVI	TWPC	U
UBIS	UEC	UKEM	UOBKH	VGI	VIH	VNT	WACOAL	WHA	WICE	WIIK
DECLARED										
2S	ABICO	AF	Al	AIRA	ALT	AMA	AMARIN	AMATA	ANAN	В
BM	BPP	BUI	CHG	CHO	CHOTI	CHOW	CI	CMC	COL	DDD
DELTA	EFORL	EPCO	ESTAR	ETE	FPI	FTE	ICHI	INOX	IRC	ITEL
JAS	JSP	JTS	KWG	LDC	LIT	META	MFEC	MPG	NEP	NOK
NWR	ORI	PRM	PSL	ROJNA	RWI	SAAM	SAPPE	SCI	SEAOIL	SHANG
SKR	SPALI	STANLY	SYNEX	TAE	TAKUNI	TMC	TOPP	TPP	TRITN	TVO
UV	UWC	WHAUP	XO	YUASA	ZEN					

### Level

Certified

This level indicates practical participation with thoroughly examination in relation to the recommended procedures from the audit committee or the SEC's certified auditor, being a certified member of Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) or already passed examination to ensure independence from external parties.

Declared This level indicates determination to participate in the Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC)

### Disclaimer:

The disclosure of the Anti-Corruption Progress Indicators of a listed company on the Stock Exchange of Thailand, which is assessed by Thaipat Institute, is made in order to comply with the policy and sustainable development plan for the listed companies of the Office of the Securities and Exchange Commission. Thaipat Institute made this assessment based on the information received from the listed company, as stipulated in the form for the assessment of Anti-corruption which refers to the Annual Registration Statement (Form 56-1), Annual Report (Form 56-2), or other relevant documents or reports of such listed company. The assessment result is therefore made from the perspective of Thaipat Institute that is a third party. It is not an assessment of operation and is not based on any inside information. Since this assessment is only the assessment result as of the date appearing in the assessment result, it may be changed after that date or when there is any change to the relevant information. Nevertheless, FSS International Investment Advisory Company Limited does not confirm, verify, or certify the accuracy and completeness of the assessment results.

Note: Companies participating in Thailand's Private Sector Collective Action Coalition Against Corruption programme (Thai CAC) under Thai Institute of Directors (as of June 24, 2019) are categorised into: 1) companies that have declared their intention to join CAC, and; 2) companies certified by CAC.

Source: The Securities and Exchange Commission, Thailand; \* FSSIA's compilation

### **GENERAL DISCLAIMER**

### ANALYST(S) CERTIFICATION

### Suwat Sinsadok FSS International Investment Advisory Securities Co., Ltd

The individual(s) identified above certify(ies) that (i) all views expressed in this report accurately reflect the personal view of the analyst(s) with regard to any and all of the subject securities, companies or issuers mentioned in this report; and (ii) no part of the compensation of the analyst(s) was, is, or will be, directly or indirectly, related to the specific recommendations or views expressed herein.

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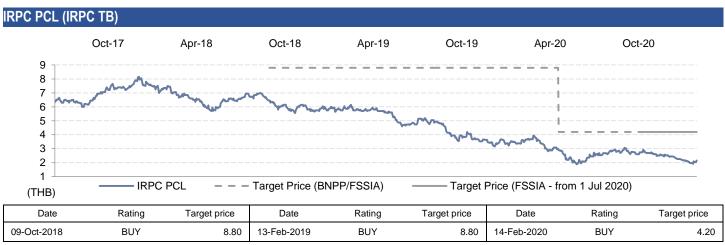
### History of change in investment rating and/or target price



Suwat Sinsadok started covering this stock from 09-Oct-2018

Price and TP are in local currency

Source: FSSIA estimates



Suwat Sinsadok started covering this stock from 09-Oct-2018

Price and TP are in local currency

Source: FSSIA estimates

### Indorama Ventures (IVL TB)



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
09-Oct-2018 21-Dec-2018 02-May-2019	BUY BUY BUY	82.00 83.00 66.00	07-Nov-2019 20-Jan-2020 27-Feb-2020	BUY BUY BUY	47.00 41.00 40.00	09-Jun-2020 07-Aug-2020	BUY BUY	40.00 44.00

Suwat Sinsadok started covering this stock from 09-Oct-2018

Price and TP are in local currency

Source: FSSIA estimates

## PTT Global Chemical (PTTGC TB)



BUY

50.00

BUY Suwat Sinsadok started covering this stock from 09-Oct-2018

96.00

09-Apr-2020

Price and TP are in local currency

Source: FSSIA estimates

09-Oct-2018

Company	Ticker	Price	Rating	Valuation & Risks
Siam Cement	SCC TB	THB348.00	BUY	Downside risks to our call include 1) a lower-than-expected demand for chemicals, CBM, and packaging; 2) rising coal costs for its cement and packaging units; and 3) weaker demand from the automobile industry that could erode the demand for SCC's chemical unit and its dividend contributions.
Eastern Polymer Group	EPG TB	THB 4.72	BUY	Downside risks to our EV/EBITDA-based target price include 1) a sharp rise in feedstock prices, driven mostly by a higher oil price; and 2) lower-than-expected demand for plastics used for insulators and the automobile and packaging industries.
IRPC PCL	IRPC TB	THB 2.08	BUY	Key risks to our positive view and EV/EBITDA-based target price are weaker-than- expected oil product demand growth and lower-than-expected PP-naphtha and SM- benzene margins.
Indorama Ventures	IVL TB	THB 24.20	BUY	The key downside risks to our EV/EBITDA-based TP are weaker-than-expected margins for PX-PTA and PET-PTA, lower demand for polyester, and delays in IVL's projects.
PTT Global Chemical	PTTGC TB	THB 40.75	BUY	The key downside risks to our EV/EBITDA-based TP are the weaker-than-expected HDPE price and HDPE-naphtha margin

Source: FSSIA estimates

### **Additional Disclosures**

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports. You can contact the analyst named on the front of this note or your representative at Finansia Syrus Securities Public Company Limited

FSSIA may incorporate the recommendations and target prices of companies currently covered by FSS Research into equity research reports, denoted by an 'FSS' before the recommendation. FSS Research is part of Finansia Syrus Securities Public Company Limited, which is the parent company of FSSIA.

All share prices are as at market close on 14-Oct-2020 unless otherwise stated.

### RECOMMENDATION STRUCTURE

### Stock ratings

Stock ratings are based on absolute upside or downside, which we define as (target price\* - current price) / current price.

BUY (B). The upside is 10% or more.

HOLD (H). The upside or downside is less than 10%.

REDUCE (R). The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

\* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

### **Industry Recommendations**

Overweight. The analyst expects the fundamental conditions of the sector to be positive over the next 12 months.

Neutral. The analyst expects the fundamental conditions of the sector to be maintained over the next 12 months.

Underweight. The analyst expects the fundamental conditions of the sector to be negative over the next 12 months.

### **Country (Strategy) Recommendations**

**Overweight (O).** Over the next 12 months, the analyst expects the market to score positively on two or more of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

**Neutral (N).** Over the next 12 months, the analyst expects the market to score positively on one of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

**Underweight (U).** Over the next 12 months, the analyst does not expect the market to score positively on any of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.