





TPI Polene Company Update

19 March 2024



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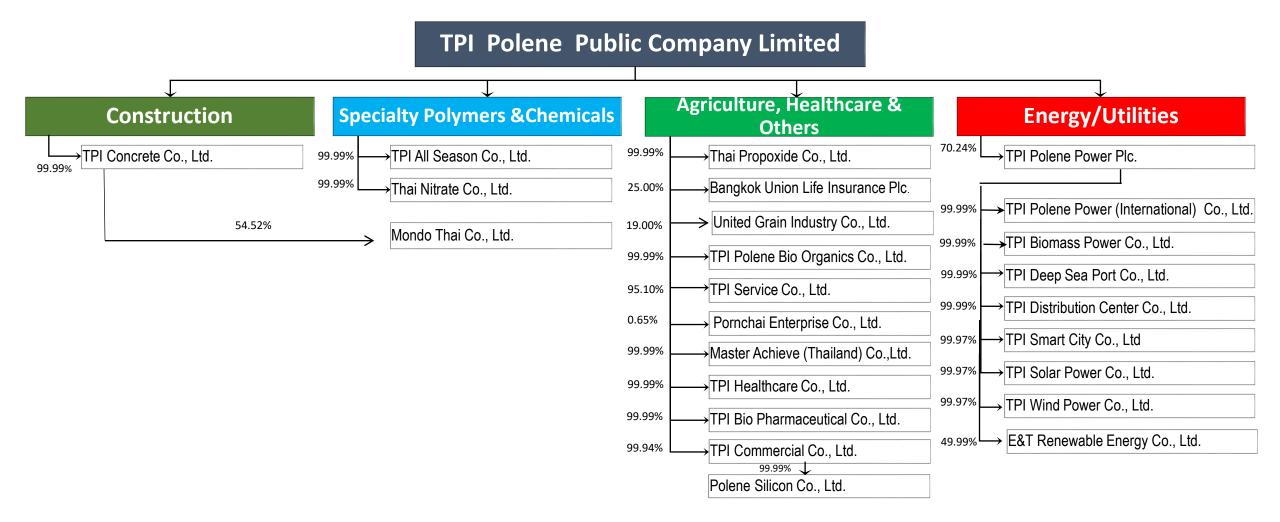
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Topics

Background Financial and Outlook ESG and Sustainability





SET Opportunity Day ⁴



Specialty Polymers/Chemical Segment Construction Materials Energy & Utilities • Specialty Polymers – 158,000 tons capacity HVA, customized with in-house proven R&D Total current capacity 440 MW as below comprising >65% • Cement - 4 lines totaling 13.5m tons capacity Green power and target to 100% green by end 2025 - Largest single location Cement plant with • EVA Emulsion & Powder – 25,000 tons capacity unmatchable cost advantage due to scale - HVA, customized with in-house proven R&D Alternative Fuels MSW Power Plant – 250 MW - First **pioneer on Green Cement** path with using Largest in Thailand MSW as Fuel 11 pre-sorting facilities in key provinces – 2,400 Nitrate- 92,700 tons Ammonium Nitrate & 21,750 tons Nitric Acid for quarrying and cleaning solution for hi-tech gadgets, respectively. tpd capacity • Mortar - 4 plants with 3m tons capacity Subsidiary, Thai Nitrate, is the only nitrate producer in Thailand Largest mortar producer in Thailand • Waste Heat Recovery Power Plant - 40MW Solar Sheets - 10 lines with 20,100 tons capacity Ready Mix Concrete & Light Weight Concrete Coal/MSW Power Plant – 150 MW Marketed under leading trade Names Polene Solar[®] and - Leading with 3.9 million cubic meters RMC and Target to 100% MSW by 2024/25 Vistasolar® 300K cubic meters LWC capacity MSW power plant projects – ~20MW, Songkhla (7.92 MW) Agriculture • Concrete Roof Tiles- 4m sq. meters or 45m pieces & Nakhon Ratchasima (9.9 MW) - COD 20 **Bio Organic** fertilizer and compounds for Plants - customized with roofing system, heat-resistant Probiotic & Product for Livestock Farming and Aquaculture Solar Farm – 61MW - COD 2024 coating etc. Wind Farm – 5MW – COD 2024 Wellness & Healthcare Products Fiber Cement- 380,000 tons capacity Bio Knox – natural calcium & Vitamin C - Environmentally friendly and asbestos-free and • Owns over 15,000 rai of land in strategic locations across confirming international standards, comprising of Bio San –**suppresses** pathogenic bacteria, viruses & Bad smell the country that can accommodate up to 4,000 MW solar in the toilets board sheets, substitute for wood product farms Printemp Marie Rose Mouthwash kills Viruses and Bacteria category, digital board and wall & floor decoration • Petrol and Gas stations - 8 petrol, 1 gas and 3 combo-petrol EESY Clean Adhesives-Paints and gas station Other Promising ventures • Two (2) new MSW projects in the North east - best bidder - All Solid and Liquid waste disposal Drinking water, Packaging & Insurance SET Opportunity Day 5

Comprehensive and diversified product suite







Green Cement & Building Products*



TGO Certified

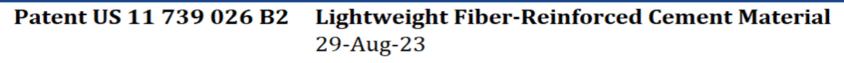


* Official launch June 2023





Reinforced Fibre Cement – Newly Patented Product





The present invention provides a fiber-reinforced cement composition comprising; cement, fiber, silica, filler, expanded perlite, and polymer. The fiber-reinforced cement composition according to the present invention has low density, high toughness and flexural strength, and not contains volatile composition. When it is molded into workpiece, the workpiece is lightweight, easy to be cut and/or lathed into desired shapes, drilled and fixed with screws and/or repeatedly nailed at the same position, tolerant to humidity, termites and insects, inflammable and does not produce powder when cut, drilled and/or lathed that is hazardous to the workers. Therefore, it is suitably applicable for being utilized as a material for manufacturing furniture parts.



The innovative products, could help TPIPL penetrate a wider market. According to IndustryARC's latest market research the fiber cement market is forecast to grow 6.2% pa reaching USD16.81 billion by 2030. *Link: <u>https://lnkd.in/gh9vdUBq</u>*



EBITDA margin relatively better than peers; valuation cheaper

Local peer comparison: EBITDA margin									
	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23	8Q avg
ConsMat									
Peer 1	12.0%	9.8%	7.7%	4.0%	9.5%	9.9%	8.0%	9.0%	9.0%
Peer 2	22.0%	25.0%	13.0%	7.0%	15.2%	15.4%	18.0%	24.5%	18.2%
TPI Polene	13.0%	19.3%	10.3%	8.7%	5.2%	11.7%	17.4%	9.1%	12.3%
Petrochemical									
Peer 1 - operating only	6.7%	2.0%	3.4%	-2.9%	5.2%	12.2%	5.0%	1.0%	4.1%
Peer 2 - polymers & chemicals	5.0%	9.0%	10.0%	0.0%	8.0%	3.0%	10.0%	5.0%	6.3%
Peer 3 ** - value added PE	19.6%	17.3%	15.4%	20.0%	16.9%	16.0%	18.2%		17.7%
TPI Polene	36.0%	41.4%	46.0%	28.0%	26.0%	28.8%	28.3%	14.5%	32.0%

Comparative Valuation – TPIPL and TPIPP value not reflecting the better than peers' performance ratios

Bloomberg	Mkt cap	Price	Avg T/O	TP L	Jpside	P/E ((x)	P/B ((x)	ROE ((%)	Div yld	l (%)
code	(USDm)	(THB)	Mn Shrs	(THB)	(%)	23E	24E	23E	24E	23E	24E	23E	24E
SCC TB	10,869	284.00	1.67	326.78	15.1	13.6	12.4	0.9	0.8	6.4	6.8	3.1	3.7
SCCC TB	1,150	136.50	0.05	145.33	6.5	16.4	13.4	1.2	1.2	7.7	9.0	5.6	6.1
PTTGC TB	4,557	35.75	13.96	39.98	11.8	n.m.	15.1	0.5	0.5	-0.2	3.3	1.6	3.0
EPG TB	641	8.10	2.46	9.24	14.1	16.1	14.6	1.8	1.7	11.5	12.0	3.7	4.0
TPIPL TB	771	1.44	4.65	2.00	38.9	7.6	8.0	0.5	0.5	6.7	6.2	6.0	6.0
GULF TB	15,176	45.75	18.59	56.02	22.4	36.5	29.1	4.4	3.9	12.3	13.8	1.4	1.7
BGRIM TB	1,990	27.00	11.91	29.89	10.7	34.3	30.6	1.9	1.7	6.3	6.2	1.4	1.6
TPIPP TB	812	3.42	2.60	4.00	17.0	8.3	8.0	0.8	0.8	10.4	10.3	5.8	6.4

** FY ends March. Closing price: 8 March 2024

Source: Bloomberg, Brokers, SET MD&A filing

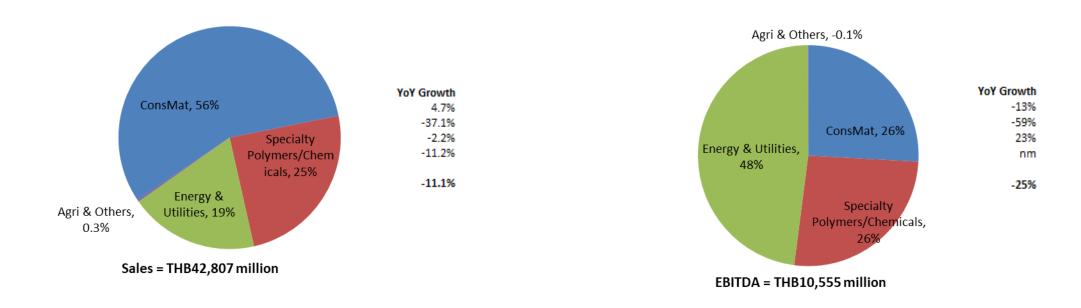




Financial and Outlook

FY 2023 performance





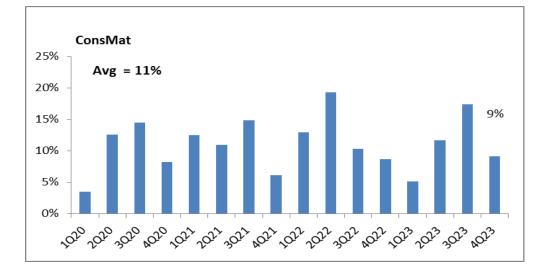
In 2023 sales dropped 11% YoY while EBITDA generated was down 25% YoY

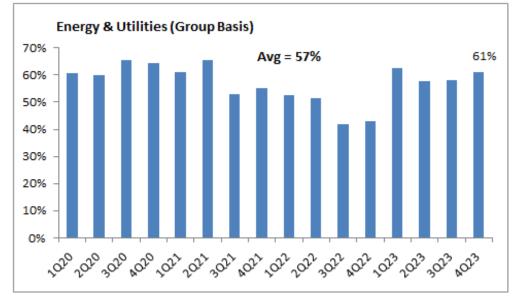
The biggest drop in sales was in the Specialty Polymer Division , down 37% YoY due to drop in product prices The larger drop in EBITDA compared to the drop in sales is due to the high operating leverage nature of the industry, particularly in the Specialty Polymer business

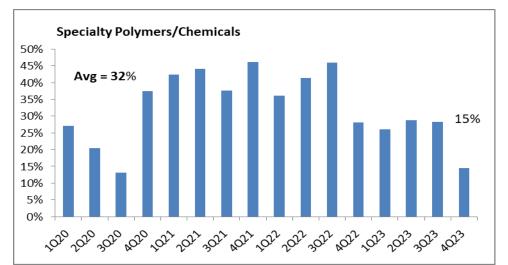
As for ConsMat division the marginal growth in sales was watered down by the low volume in clinker exports

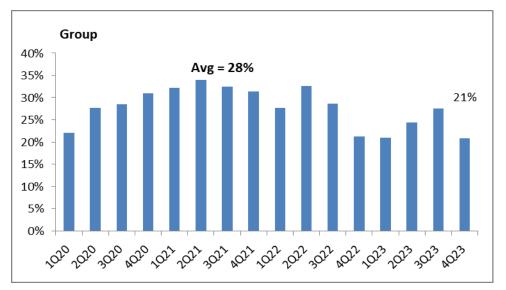


EBITDA margin resilient





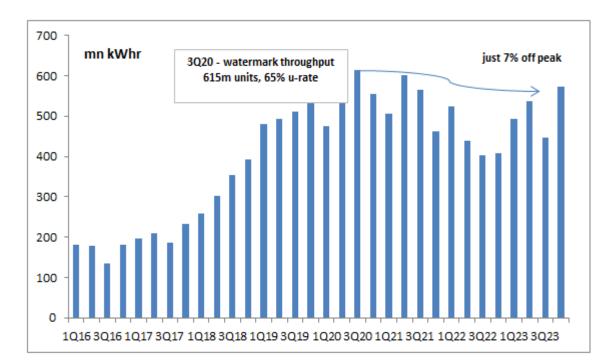






SET Opportunity Day

EBITDA margin resilient... High Contribution from Energy & Utilities





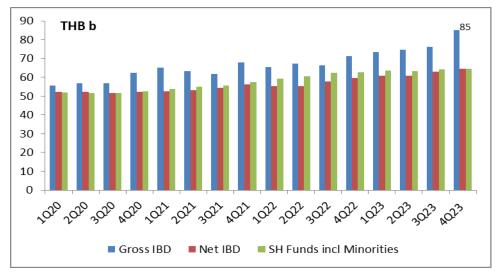
* Higher throughput in 4Q23, FY volumes were up 14% YoY

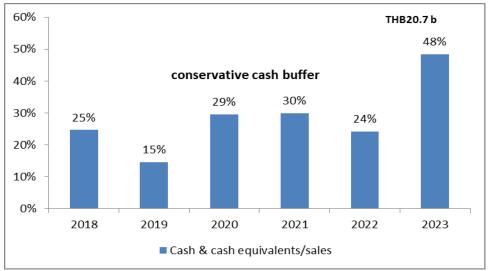
* FY23, the lower average price sold EGAT was partly offset by higher price sold to the parent

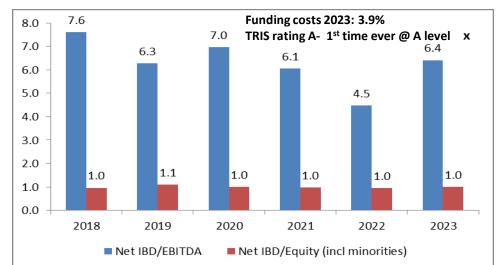


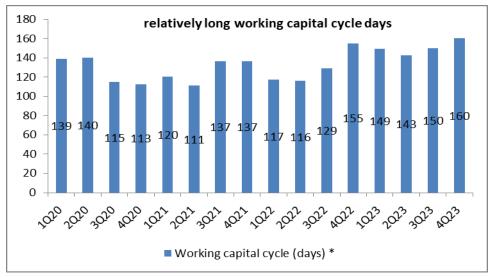
Financial – defensive cash positioning







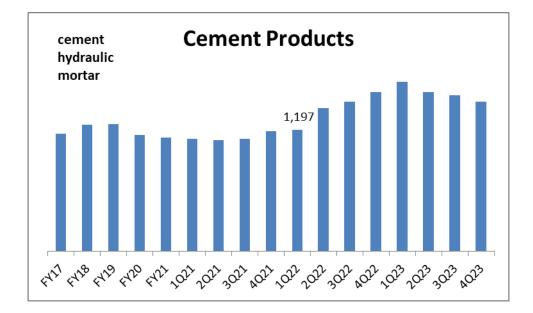


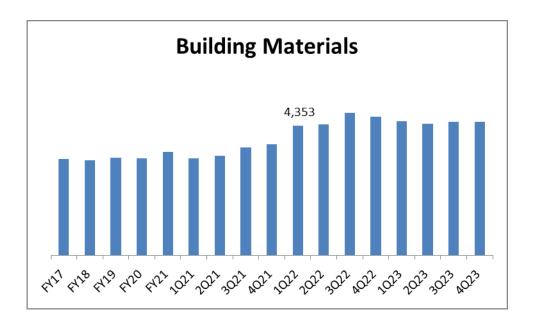


* Based on 1) Accounts & other receivables + 2) Inventories - 3) Accounts & other payables







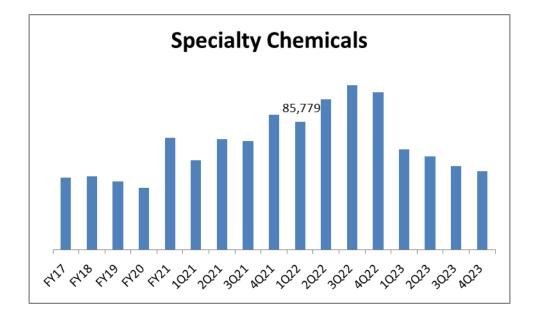


Largely stable

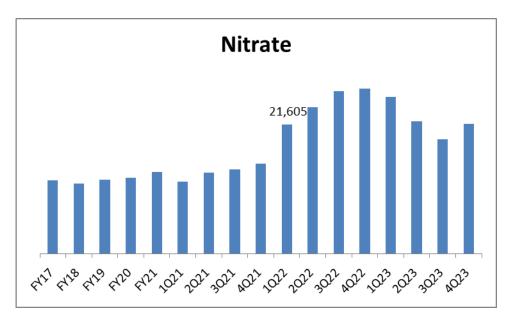
Price increases in some products Price drops in others







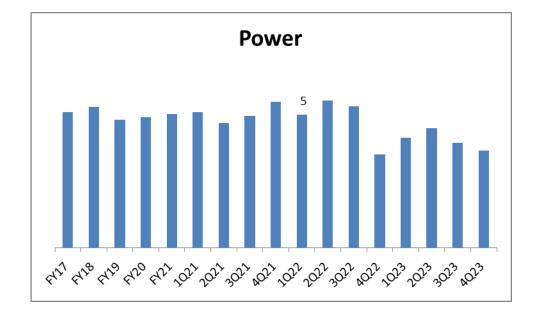
Price drop due to soft demand



Benefits from logistics disruption







Variable due to Ft and social policy



MSW

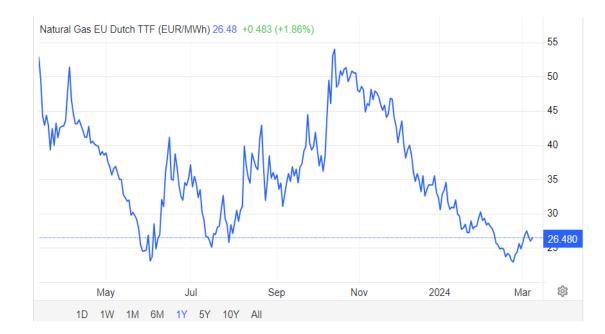
935 r⁴¹⁸ r⁴¹⁹ r⁴¹



Price Trends



Energy prices off the 2021/22 highs...



SEAT vs FOB Kalimantan (Basis 4,200 kcal/kg GAR)



... and volatile in gas prices will influence Ft adjustments





Variables to watch... private construction

	Residential Property Presales Lackiuster, +1/0 for for to companies												
THB m	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23	YoY	QoQ	2022	2023	ΥοΥ%
ANAN	2,191	3,910	4,101	7,349	5,288	4,362	5,163	4,700	-36%	-9%	17,551	19,513	11%
LPN	2,134	2,623	1,980	1,624	2,786	2,621	2,581	1,978	22%	-23%	8,361	9,966	19%
ORI	8,149	9,623	11,626	11,634	12,004	12,461	12,472	10,328	-11%	-17%	41,032	47,265	15%
SC	5,285	6,735	5,161	7,287	4,918	7,328	8,434	7,270	0%	-14%	24,468	27,950	14%
SIRI	5,982	7,324	15,337	9,807	8,089	10,022	7,579	11,891	21%	57%	38,450	37,581	-2%
AP	12,959	12,572	11,924	12,960	11,016	12,631	11,677	16,067	24%	38%	50,415	51,391	2%
SPALI	8,852	9,364	6,809	7,408	9,029	8,256	6,227	5,352	-28%	-14%	32,433	28,864	-11%
QH	2,035	2,084	2,146	1,734	2,048	1,872	2,464	1,200	-31%	-51%	7,999	7,584	-5%
PSH	5,300	6,342	2,858	2,470	4,466	4,650	5,125	4,300	74%	-16%	16,970	18,541	9%
LH	7,996	7,412	9,235	5,601	4,800	3,995	5,572	8,350	49%	50%	30,244	22,717	-25%
Total	60,883	67,989	71,177	67,874	64,444	68,198	67,294	71,436	5%	6%	267,923	271,372	1%

Residential Property Presales Lackluster, +1% YoY, for 10 companies



New Contracts Public and Quasi Public Mostly Small Works

Signed Projects in 2023 CK	Signed	Project Value (MB)
1. Maintenance of Civil & Architectural, E&M System and Lift & Escalator (MRT Initial Blue Line)	April	480
2. Luang Prabang Hydroelectric Power	May	99,788
3. Maintenance of Civil & Architecture, E&M Systems, Lift & Escalator and Walk-through Metal Detector (The MRT Purple Line)	June	1,150
4. Highway No.118, Chiangmai - Chiang Rai Route, Mae Suai District Section - converge to Highway No.1, Section 3	August	747
5. Thonburi Wastewater Collection & Treatment System Plant	September	2,247
Total		104,412

Newly signed contract (2023)	(THBmn.)
• VO & Others STEC	5,905
Active Major Projects	(THBmn.)
Yellow line, EBM	22,017
 Pink line, NBM 	21,927
 Double track Denchai 2,3 	17,370
 Purple line Contract 1&2 , MRTA 	14,202
 Pluakdaeng power plant, GULF 	9,481
Morchit complex	8,553
 Hinkong power plant 	9,826
 Double track Nongplalai-Huahin, SRT 	7,028
 Manhole and ductbank – Pink,Yellow, MEA 	6,818
 O&M Motorway M6, M81 	6,459
 Govt. center zone C, Dhanarak 	5,837
 Cable conversion for Pink, Yellow II, MEA 	7,942
 Cable conversion for Pink, Yellow I, MEA 	7,103
 Ayudhaya diversion canal, RID 	3,429
• Thai Oil clean fuel	2,441





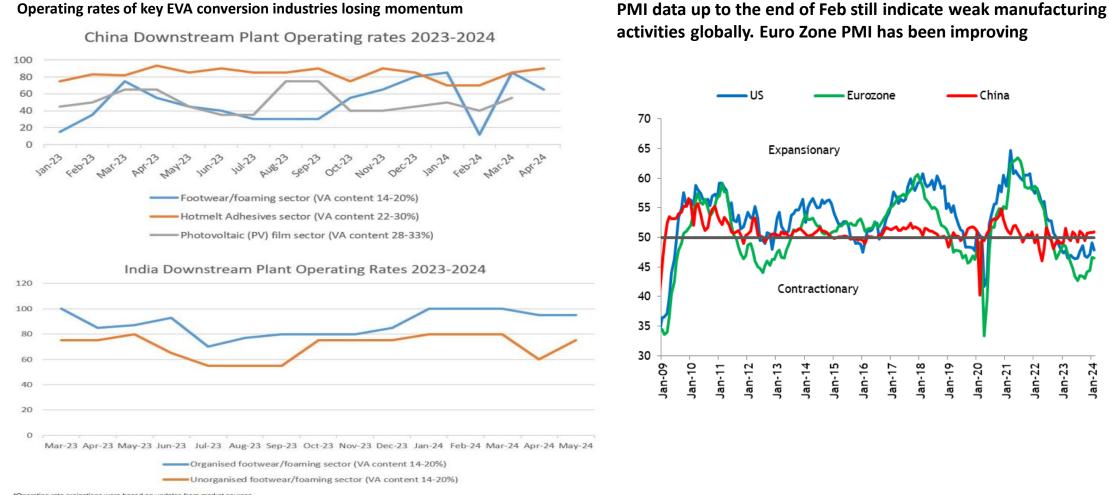
Short Term Potential Drivers : Cement Export Market

- Reconstruction from flood Dubai experienced its first major flood & and the Palm Islands have begun sinking. This will add on to the planned megaprojects estimated to cost USD 30 billion
- Seawall to save Jakarta from sinking Groundwater levels in the northern coast of Java have decline 1 25 cm per year while the sea levels rise 1-15 cm per year, causing tidal floods of c. 5-200 cm. The sea wall project also aims to address the water supply problem in Jakarta, which relies on groundwater extraction. The estimated cost is USD50-60 billion
- Build Better More Program in the Philippines comprised of many projects including road networks, highways, mass transits is budgeted to cost PHP 9 trillion (USD 16 billion). Off to a slow start in 2023 but expected to accelerate as funding becomes accessible. The country imports close to 7.0 million tons of cement and Vietnam is the largest supplier
- Cement demand for 2024 is forecast to grow by as much as 4%; challenges in the housing market is expected to be
 offset by demand created relating to the ramp up of the USD1.5 trillion infrastructure bill against the backdrop of the
 November 2024 Presidential election. A stronger US market will help soak up excess supply in the Asian region and
 could allow price to improve.



Variables to watch... manufacturing





Operating rates of key EVA conversion industries losing momentum

*Operating rate projections were based on updates from market sources.

บร

Jan-11

Jan-12

Expansionary

Contractionary

Jan-14

lan-13

Jan-15

lan-16

lan-18

Jan-17

lan-19

Jan-20

lan-22

Jan-21

Jan-23

Jan-24

Eurozone



China

Variables to watch – manufacturing



Spread is improving as EVA price is catching up

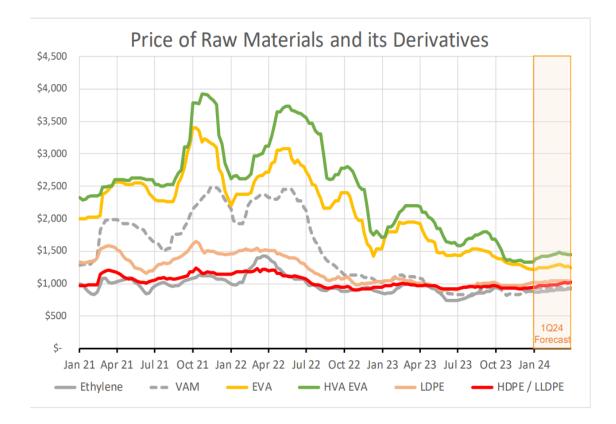
Feedstock costs - EVA northeast Asia

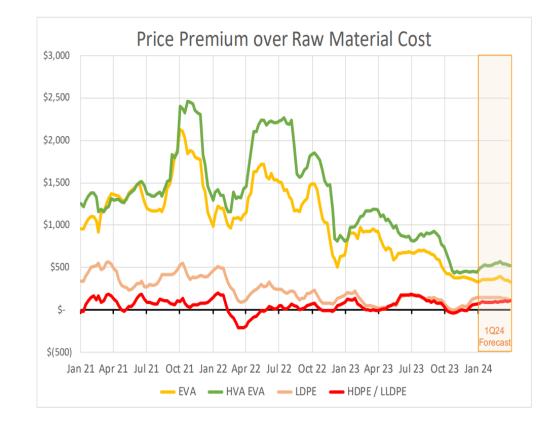




Variables to watch...manufacturing



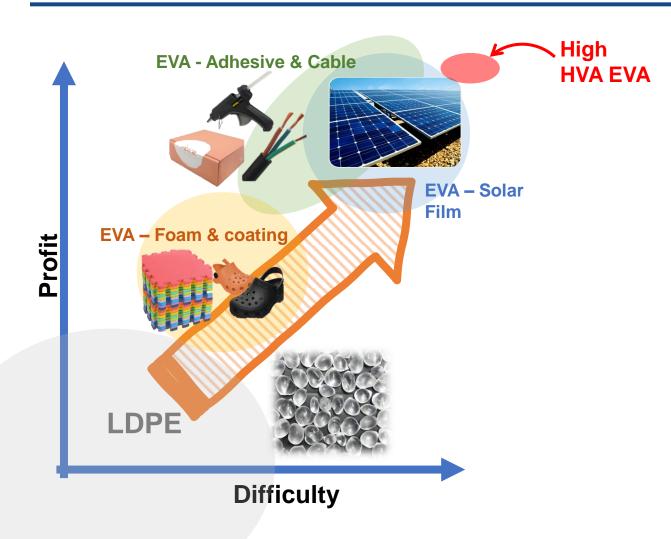


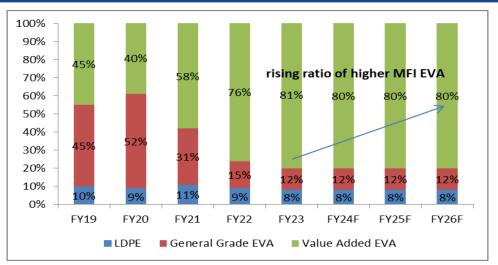


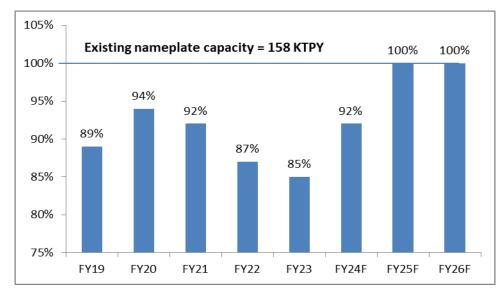




TPIPL position in the market

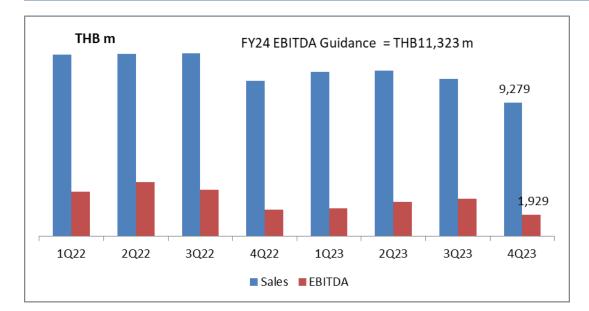






SET Opportunity Day²⁵

EBITDA and Capex - Guidance



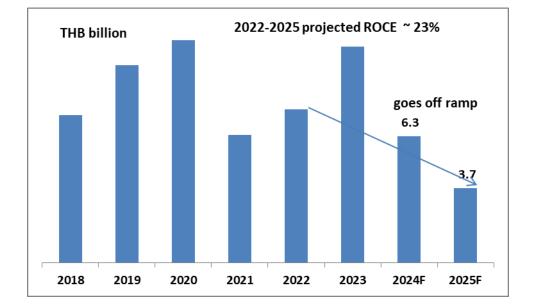
- Achieved 2023 EBITDA was THB10,055 million hitting guided target
- Guidance for 2024 EBITDA is THB11,323 million, + 12.6% YoY

Key drivers:

- cost efficiency
- contributions from cost savings improved throughput in power
- some capacity addition

Potential source of upsides:

improvement in overseas cement market improved EVA spreads



Capex – including advances paid for PPE

- Peaked in 2023 and goes off ramp going forward
- Major undertaking continuing plant modification of the 150MW coalfired power plant
- Two new small MSW projects







Environment, Social and Governance (ESG)

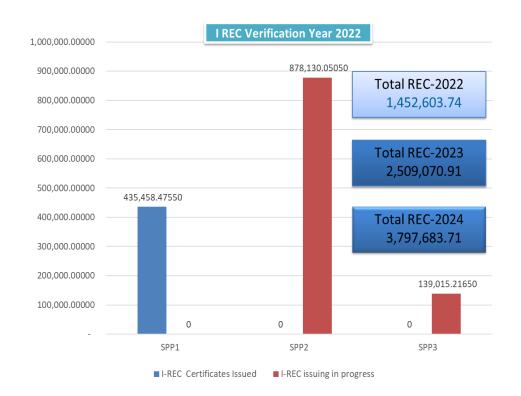




TPIPP – T-Ver Certificates

Carbon Credit T-VERs Registe	red by TGO
MSW Received	
1. July 2015 - May 2016	13,483 tCO ₂ eq
2. May2016 - Apr 2017	<u>68,573</u> tCO ₂ eq
	82,056 tCO ₂ eq
3. Sold out to Zukunft des Konlentoff	narktes - 34,690 tCO ₂ eq
4. Remain	<u>47,366</u> tCO ₂ eq
5. Approval Credit 2022	<u>717,931</u> tCO ₂ eq
6. Approval Credit 2023	793,932 tCO2eq
7. In the certification process	1,260,263 tCO ₂ eq
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TPIPP – Renewable Energy Certificates



SET Opportunity Day²⁸

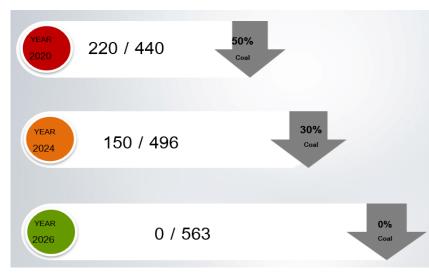




MSW related carbon merits



Fossil free by 2026



EUA – Carbon Allowance Price





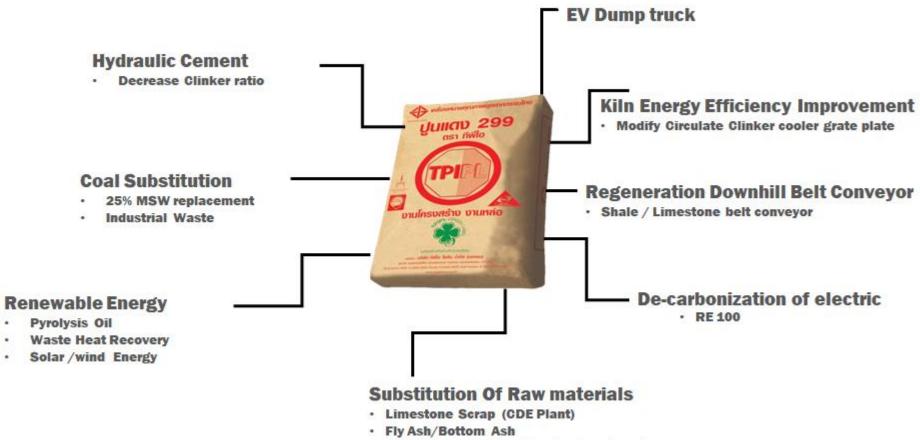
Green Cement – basis for Green Building Products

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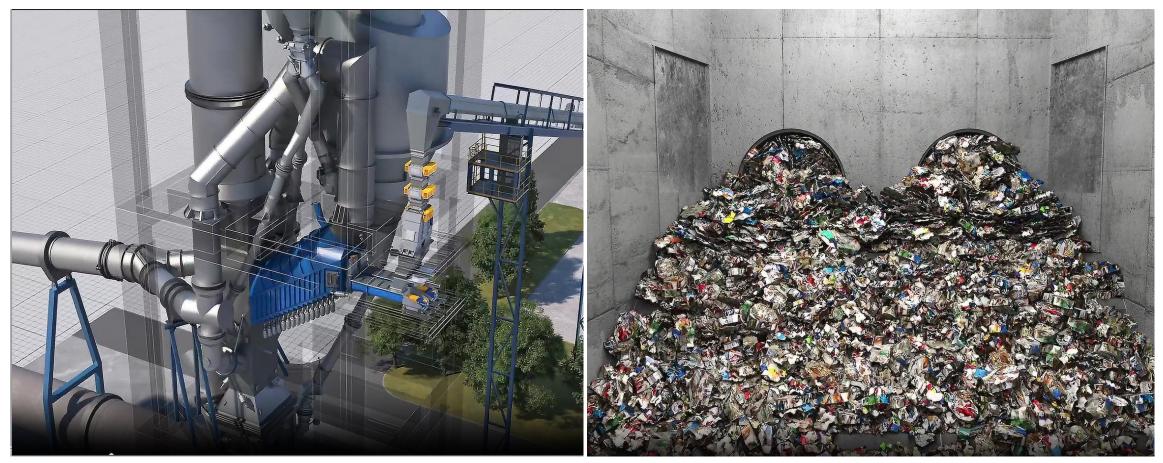


Sludge from wastewater treatment system



Replacing coal with MSW in the clinker production process *





For more details: Link <u>https://drive.google.com/file/d/1h3yYa8c2eoeSM7U2NZ-Ut_qmICfdJyU-/view?usp=share_link</u>

* Other local cement producers use IW – industrial wastes



CDE for Limestone Scrap – reduce mineral waste





TPI achieves total utilisation of feed material with CDE wet classification technology. The 300tph solution is processing quarry by-product into valuable materials.

Material 300tph Sand & Gravel, Quarry Waste, Crushed **Rock, Manufactured Sands**

End Use

Tonnage

Output 0-0.6mm and 0.6mm-2.5mm Sand & C33 Man Sands | 2.5mm-5mm Aggregate | Filter Cake

For more details:

https://www.cdegroup.com/about/case-studies/tpi-thailand



EV Dump Trucks for Quarrying









On April 7, 2023 Yutong officially shipped 10 YTK90E battery electric mining trucks, which will be delivered to TPI Polene Public Company Limited (TPIPL), the second largest cement producer in Thailand, for transporting stone between mines.

For more details

https://www.yutongtruck.com/10-yutong-ytk90ebattery-electric-mining-trucks-delivered-to-thailanddrawing-up-a-new-blueprint-for-going-abroad/



Litigation Case – Pending At The Supreme Court



Case Case Date		Plaintiff	Charge/		e Company by E. 2535 to either	status		
	Date		Offense	Refill Rocks (Mil. Tons)	Pay (Mil. Baht)			
Sor Vor 4/2559	8/7/2015	Department of Primary Industry and Mines, Ministry of Industry (has no authority in	Primary Industry and Mines, Ministry of Industry (has no authority in		31.52	4,047	Pending the Supreme Court Consideration	
Sor Vor 5/2559	24/3/2016			and Mines, Ministry of Industry (has no	The violation in mining activity	12.48	1,603	Pending the Supreme Court Consideration
Sor Vor 6/2559	24/3/2016				(under Mineral Acts B.E. 2510 and	2.45	314	Pending the Supreme Court Consideration
Sor Vor 1/2560	2/3/2017				Environmental Acts B.E. 2535)	1.22	326	Pending the Supreme Court Consideration
Sor Vor 2/2561	21/6/2018	Acts B.E. 2535)	,	0.25	67	Pending the Supreme Court Consideration		
Total			47.92	6,357	~THB0.34/shr; BVPS = THB3.41 (YE23)			

The Company did not commit any offense as accused by the Plaintiff and is of opinion that

Share price = THB1.44 (8/03/24)

- The disputed lands (buffer zones) sued by the Department of Primary Industry and Mines, Ministry of Industry, who has no authority in the Enhancement and Conservation of National Environmental Quality Act, B.E. 2535. (Environmental Acts B.E. 2535) were legally belonging to the Company as they were within concession areas, and there have been no claims for physical damages from anybody.
- The Company had approx. 600 million tons of industrial mineral rock in the concession area, and by the end of such concession period, the Company still had approx. 448.355 million tons of industrial mineral rock left. Therefore, the Company had no reason to commit any illegal act as accused i.e. to steal 47.92million tons of rocks from the government in the disputed buffer zones and will give back 448.355 million tons of mineral rock to the government at the end of the concession period.
- At the moment, the concession for all these areas have been renewed including the disputed buffer zones.

From December 2021 until YE 2023, the Company has been granted new limestone and shale concession for the manufacturing of cement industry from the Department of Primary Industries and Mines, totaling 28 plots, with long-term concession period of 25-30 years for limestone, shale and soil-cement reserves total 448.355 million tons (averaging 16.3 million tons /year). If TPIPL needs more limestone, the company can apply for additional limestone concession in the future.





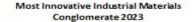
Validation of Our ESG and BCG Efforts



3G Excellence Awards - CSR Activities 2023



3G - Global Good Governance





Brands & Business Magazine

Best Corporate Governance Company in Thailand 2023



SET

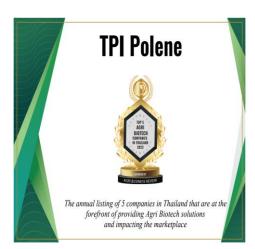
TPI POLENE POWER PCL

Certificate of Rec

International Business Magazine



International Finance Magazine



SET Opportunity Day



3G - Global Good Governance



ESQR - European Standard for Quality Research









End of Presentation	
Q&A	
Thank You	