



TPI Polene Company Update

11 September 2023





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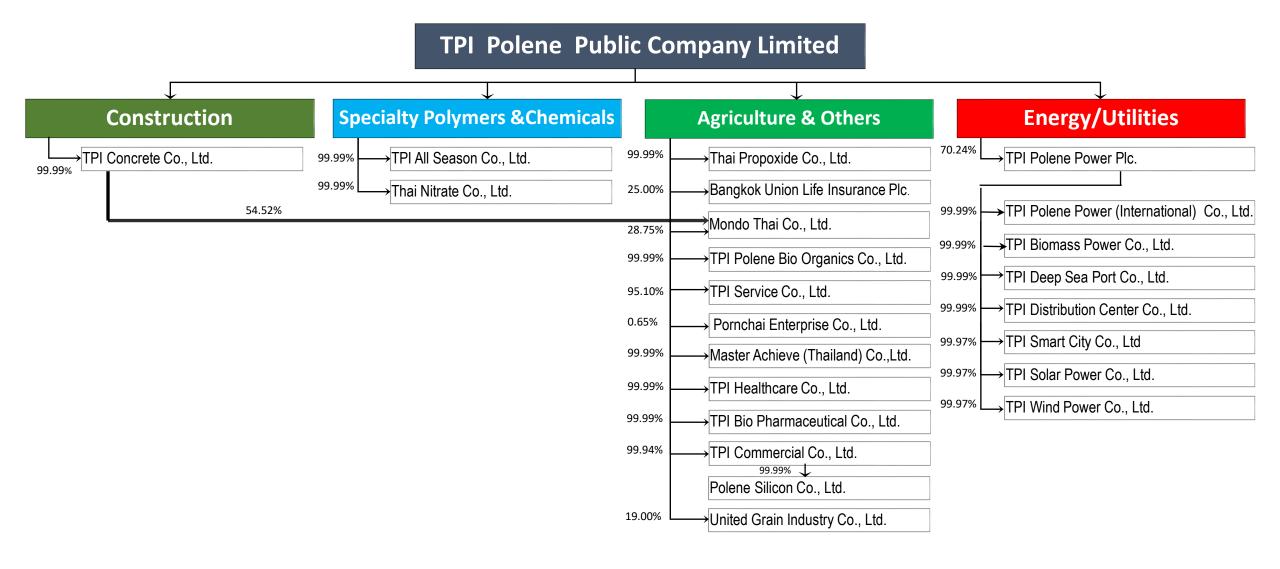


Topics

Business Overview Financial Performance & Position Outlook and Guidance Sustainability and Other Matters











Specialty Polymers/Chemical Segment Construction Materials Energy & Utilities • Total current capacity 440 MW as below comprising >65% Specialty Polymers – 158k tpy capacity Green power and target to 100% green by 2024-25 HVA, customized with in-house proven R&D • **Cement** - 4 lines totaling 13.5m tpy capacity - Largest single location Cement plant with Alternative Fuels MSW Power Plant – 180MW • EVA Emulsion & Powder – 20k tpy capacity unmatchable cost advantage due to scale Largest in Thailand - HVA, customized with in-house proven R&D - First **pioneer on Green Cement** path with using 11 pre-sorting facilities in key provinces – 2,400 MSW as Fuel tpd capacity • Nitrate- 95k tpy Ammonium Nitrate & 24.5k tpy Nitric Acid for quarrying and cleaning solution for hi-tech gadgets, respectively. • Mortar - 4 plants with 3m tpy capacity • Waste Heat Recovery Power Plant - 40MW Subsidiary, Thai Nitrate, is the only nitrate producer in Thailand Largest mortar producer in Thailand Coal/MSW Power Plant - 220MW Solar Sheets - 10 lines with 20.1k tpy capacity Ready Mix Concrete & Light Weight Concrete Target to 100% MSW by 2024/25 Marketed under leading trade Names Polene Solar[®] and - Leading with 3.9 million cubic meter RMC and MSW power plant projects – ~20MW, Songkhla (7.9MW) & Vistasolar® 300K cubic meter Light weight Nakhon Ratchasima (9.9MW) - COD 2024 Agriculture • Concrete Roof Tiles- 4m sq. meter or 45m pieces Solar Farm – 61MW - COD 2024 **Bio Organic** fertilizer and compounds for Plants - customized with roofing system, heat-resistant Probiotic & Product for Livestock Farming and Aquaculture coating etc. Wind Farm – 5MW – COD 2024 Wellness & Healthcare Products Fiber Cement- 380k tpy capacity Owns over 15,000 rai of land in strategic locations across Bio Knox – natural calcium & Vitamin C - Environmentally friendly and asbestos-free and the country that can accommodate up to 4,000 MW solar confirming international standards, comprising of Bio San – suppresses pathogenic bacteria, viruses & Bad smell farms board sheets, substitute for wood product in the toilets • Petrol and Gas stations - 8 petrol, 1 gas and 3 combo-petrol Printemp Marie Rose Mouthwash kills Viruses and Bacteria category, digital board and wall & floor decoration and gas station EESY Clean Adhesives-Paints Other Promising ventures - All Solid and Liquid waste disposal - Drinking water, Packaging & Insurance



Comprehensive and diversified product suite







Strong Innovation Culture – The Many Firsts In Thailand



Diversify in all types of mortar (e.g. Nonshrink, sulfate-resistance and etc.)

One of the first hydraulic cement

First and only stucco wall producer

First and only cement producer that uses MSW as an alternative fuel

Linked quarry to production facility via conveyor belt saving 3.03m litres of diesel per year, and produce 1.07m kWh of electricity.

First power plant to use zerowaste policy (use up all incoming waste)

First power plant to use MSW (municipal solid waste), not only IW (industrial waste)

First and only WTE SPP (more than 10 MW capacity)

First and only producer to use fly ash to save cement in the process

First fire resistant fiber cement producer in Thailand

First and only furniture board and door frame producer from fiber cement

First and only fast drying and odorless paints for walling and other surfaces

Bio Knox is a high alkaline powder/drink that can stunt viral growth and propagation

ProVita is a probiotic drink (*Lactobaccillus paracasie*) produced with a in-house probiotic microencapsulation technology (PET) that prolongs the shelf life of the formulation for up to four months at room temperature

Innovation creates competitive moats and better-than peers' margins

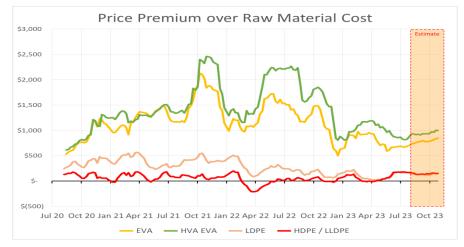




EBITDA margin better; valuation cheaper relative to peers

Peer comparison EBITDA marg	ins						
	1Q22	2Q22	1H avg	3Q22	4Q22	1Q23	2Q23
ConsMat							
Company 1	12.0%	9.8%	10.9%	7.7%	4.0%	9.5%	9.9%
Company 2	22.0%	25.0%	24.0%	13.0%	7.0%	15.2%	15.4%
TPI Polene	13.0%	19.3%	16.1%	10.3%	8.7%	5.2%	11.7%
Petrochemical							
Company 1 - operating only	6.7%	2.0%	4.4%	3.4%	-2.9%	5.2%	12.2%
Company 2 - polymers & chemicals	5.0%	9.0%	7.0%	10.0%	0.0%	8.0%	5.0%
Company 3 ** - value added PE	19.6%	17.3%	18.5%	15.4%	20.0%	16.9%	16.0%
TPI Polene	36.0%	41.4%	38.7%	46.0%	28.0%	26.0%	28.8%

Specialty Polymers' superior spread profile



** FY ends in March. Source – SET, Companies MD&A

Comparative Valuation

Bloomberg	Mkt cap	Price	Avg T/O	ТР	Upside	P/E (x)		P/B (x)		ROE (%)	Div Yield	(%)
code	(USDm)	(THB)	Mn Shrs	(THB)	(%)	23E	24E	23E	24E	23E	24E	23E	24E
SCC TB	10,647	313	1.43	350.8	12.1	12.8	10.7	1.0	0.9	8.2	8.2	3.6	4.3
SCCC TB	1,153	136.5	0.05	151.3	10.9	13.4	12	1.2	1.1	8.9	10.2	5.6	6.1
PTTGC TB	4,665	36.5	11.53	43.4	18.8	17.4	10.1	0.6	0.5	2.2	5.2	2.7	4.6
EPG TB	492	6.2	1.41	8.8	41.5	13.1	11.7	1.4	1.3	10.8	11.5	4.5	5.1
TPIPL TB	821	1.53	4.41	2.2	43.8	8.5	9.0	0.5	0.5	6.3	5.7	5.9	5.9
GULF TB	16,297	49	11.78	59	20.4	37.5	29.6	4.6	4.4	13.8	15.7	1.5	1.8
BGRIM TB	2,660	36	8.72	43.7	21.3	39	32.1	2.2	2.1	6.6	7.3	1.2	1.5
TPIPP TB *	805	3.38	2.49	4.3	26.5	8.2	7.9	0.8	0.8	10.4	10.3	5.9	6.5

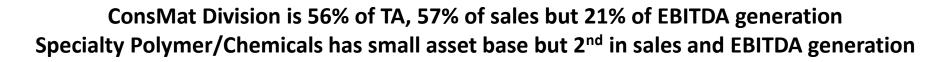
Note: * Broker estimates, Closing price 21/8/23 Source: Bloomberg

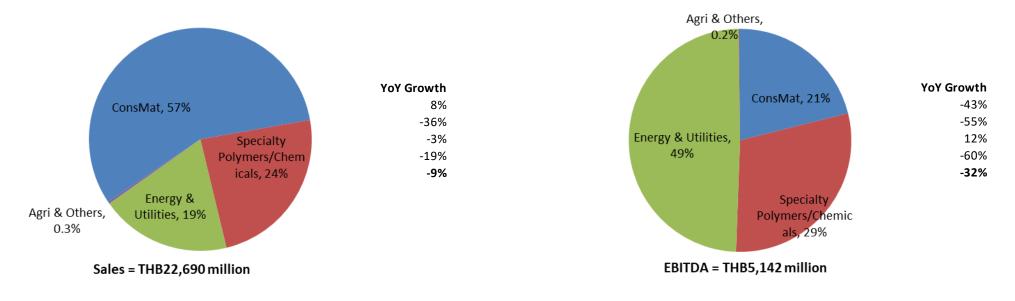


Financial Performance & Position

Segment performance 1H 2023







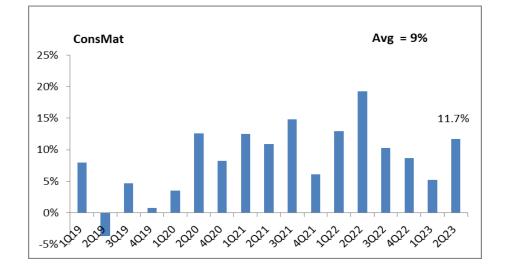
Performance Profile 1H 2023	Sales	YoY Growth	EBITDA	YoY Growth	EBITDA margin	Total Assets	YoY Growth
ConsMat	57%	8%	21%	-43%	8%	56%	-3%
Specialty Polymers/Chemicals	24%	-36%	29%	-55%	27%	7%	1%
Energy & Utilities	19%	-3%	49%	12%	60%	35%	8%
Agri & Others	0.3%	-19%	0.2%	-60%	17%	2%	-7%
Total	22,690	-9%	5,142	-32%	23%	145,031*	1%
* Not including unallocated and intragra	un accoto						

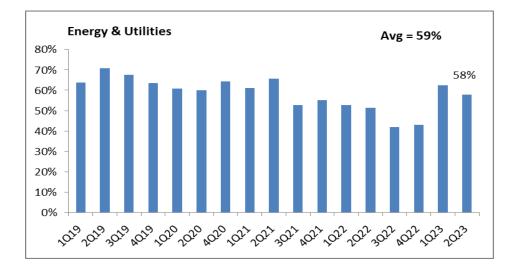
* Not including unallocated and intragroup assets

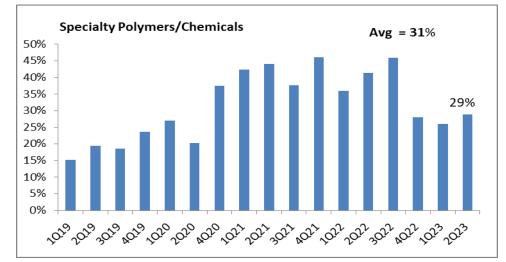


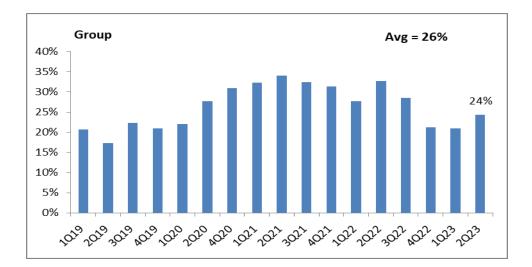


EBITDA margin sequentially better



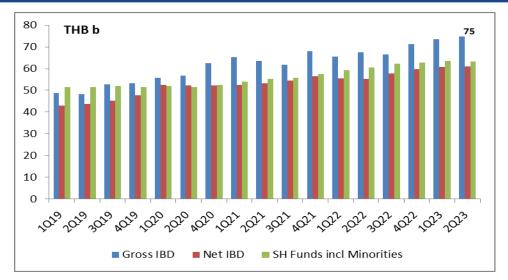


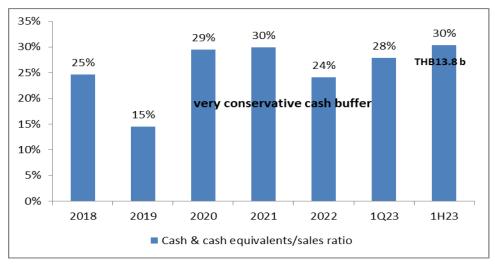


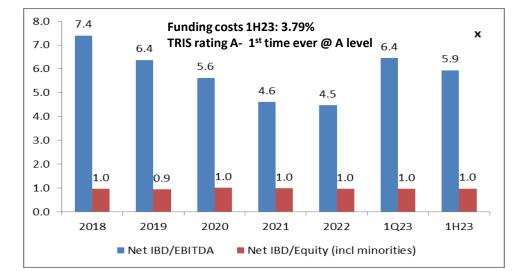


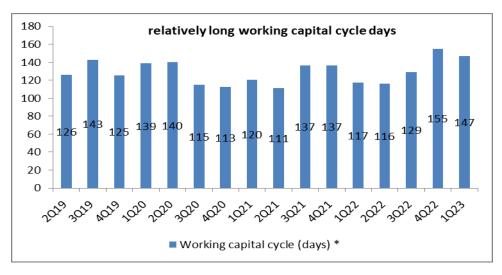


Financial – falling leverage ratio; defensive cash positioning









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



2Q23 Operating Backdrop

Backdrop

- CCM: Volume sales in the CCM division rose by 1% YoY driven by strong sales in cement, hydraulic cement and mortar. However, on a QoQ basis volume sales declined slightly due to slowing sales of hydraulic cement and mortar. These short term trends were tied to holidays and election-related disruptions. The weak QoQ volume trend spilled into prices as is normal; ie pricing competition heats up when volume is weak. YoY prices are higher. Export volumes remain soft, down 30% YoY (whole country) and so did not help the situation. But, there are signs of improvement in 2Q23 (+4%QoQ whole country). Offsetting the soft topline was the sequential drop in coal price.
- EVA/N: Our volume sales was lower YoY due to sluggish demand partly driven by the soft demand backdrop and inventory de-stocking. The anticipated recovery in manufacturing demand post-Covid still did not gain momentum mainly due to the visible slower-than-expected recovery in the Chinese economy. However, QoQ we see improvement as our domestic input supplier resumed operations post major maintenance. As for the Nitrate segment, volumes were marginally higher YoY, but lower QoQ.
- Energy: Power volumes were higher YoY and QoQ. Operating rate for our waste heat was low (tied to cement ops) but this was more than offset by improved rates in MSW and coal plants. The recently modified 70MW resumed operations while the operating rate of the coal fired plant was also higher. This quarter we see full impact of the adder expiry on two MSW. QoQ Ft was also lower. The average power price was lower QoQ, YoY

Performance

- **CCM:** Weaker prices and softer QoQ volumes resulted in single digit QoQ contraction in sales. However, EBITDA improved sequentially on lower coal costs, partial switch to MSW in the clinker process and major push launch of "Green Cement and Building Products" in June.
- EVA/N: YoY the 2Q23 is weak just like in 1Q23. However, with input material availability normalizing sales allocation shifted back to higher margin EVA.
- Energy: The higher volume YoY was offset by expiry of loss of adder (YoY) and lower Ft (QoQ) muting sales growth and resulting in slight EBITDA contraction.
- CCM is the star in 2Q23. Its sequentially better EBITDA and margin drives both the Group's EBITDA and profitability





Backdrop

- In 1Q23 domestic cement sales growing positively QoQ; sales of mortar outperform, implying strong demand from small construction activities; selling
 price is up to offset higher costs. The export market improved QoQ but remained challenging due to excess supply in Vietnam and some dumping. In
 2Q sales in the CCM division rose by slightly YoY but slowed slightly in hydraulic cement and turned negative in mortar. The slow down was tied to
 holidays and election-related disruptions. As volumes softened prices among low clinker products reduced as competition gets heated. Export is still
 soft but slight improvement has been seen starting late June.
- Specialty polymer sales volume were low in 1Q23 due to maintenance shutdown of main supplier this has normaliazed in 2Q. Prices started to drop later in 1Q but stayed mostly flat in 2Q on weak EVA demand especially for manufacturing as well as inventory de-stocking. The anticipated recovery in manufacturing demand post-Covid did not gain momentum due to demand destruction linked to inflation as well as slower-than-expected recovery in the Chinese economy. As for our Nitrate segment, volumes stayed at high levels. Our Nitrate products have been enjoying strong volumes since last year due to the disruptive Russia-Ukraine war that affected our competitors and resulting in higher market share for us.
- Power plant operations were normalizing as projects are getting completed, volume is up YoY, high single digit. The average selling price is helped by high Ft, offsetting the expiry of adder, average price was up QoQ, YoY. Power volumes were higher YoY, QoQ. Operating rate for our waste heat power plants was low (tied to cement ops) but this was more than offset by improved rates in MSW and coal plants. The recently modified 70MW resumed operations while the operating rate of the coal fired plant was also higher. This quarter we see full impact of the adder expiry on two MSW. QoQ Ft was also lower. The average power price was lower QoQ, YoY



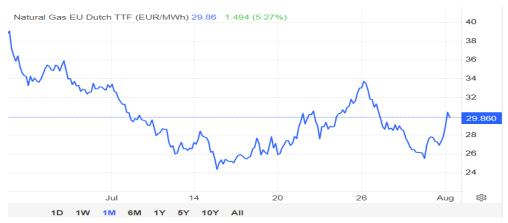
Outlook and Guidance

Variables to watch



- **CCM**: Delay in the formation of the government has lead to up to eight months delay in the approval of FY23/24 budget according to press reports and this sets a lackluster backdrop for public sector investment and infrastructure. Slower flow of Chinese tourists could dampen renovation market, but overall the private sector could be the bigger source of demand for the rest of the year. As this is an El Niño year, disruption from the monsoon rains could be be less-than-norm. Export market is but it could improve if China rolls out its stimulus program and the property situation in Vietnam improves. In the 1H23 cement export volume contracted. Cheaper coal reduces cost of clinker while lower Ft reduces cost of cement
- **EVA/N:** Operating rates in China have begun to improve slightly and this time around the manufacturing sector is key to sustained price improvement. Typically, harvest season in 3Q and inventory re-stocking for the holiday production run tends to drive manufacturing activity starting in the 2H
- Energy: Operations of our MSW power plants are expected to be normal while the newly-revamped 70MW hybrid is expected to climb back to better operating levels. Operating rate remains the key. As for the coal power plant (150MW) it is now on its modification program (divided into three phases) so expect disruptions. Ft for Sep-Dec will sequentially reduce power tariff by nearly 6%

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

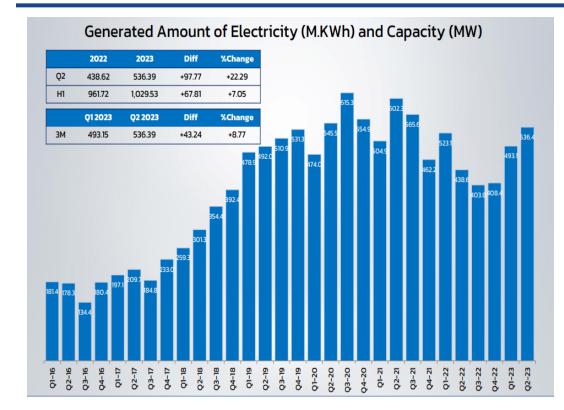


Energy prices are trending down – reference prices



Operating rates of the power plant is key





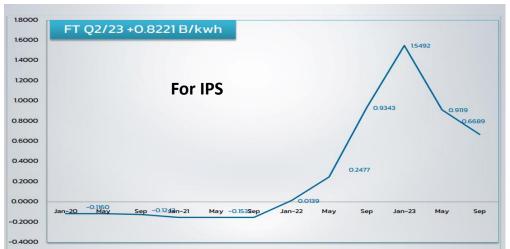
Sale Price after ADDER Expired

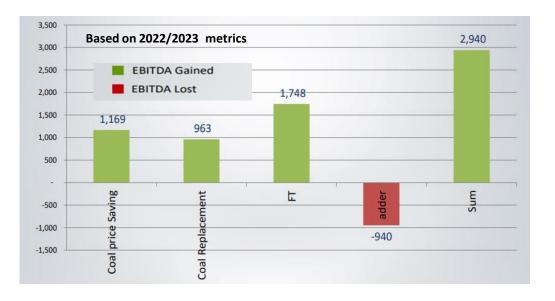
	РРА	Adder Expired	2018 Lowest FT			2023 (SeptDec.) Medium FT
SPP	18 MW	JAN 2022	6.2482	3.3089	4.0847	3.7518
SPP	55 MW	AUG 2022	6.2387	5.6288	4.1097	3.8365
SPP	90 MW	APR 2025	6.2433	6.2433 6.7011		7.2957
	163 MW		6.2423	6.0691	6.2586	5.8951
IPS	220 MW		2.9734	3.7224 4.4044		4.1500

* Adder expired August 2022

Power pricing - higher Ft compensates for adder expiry *



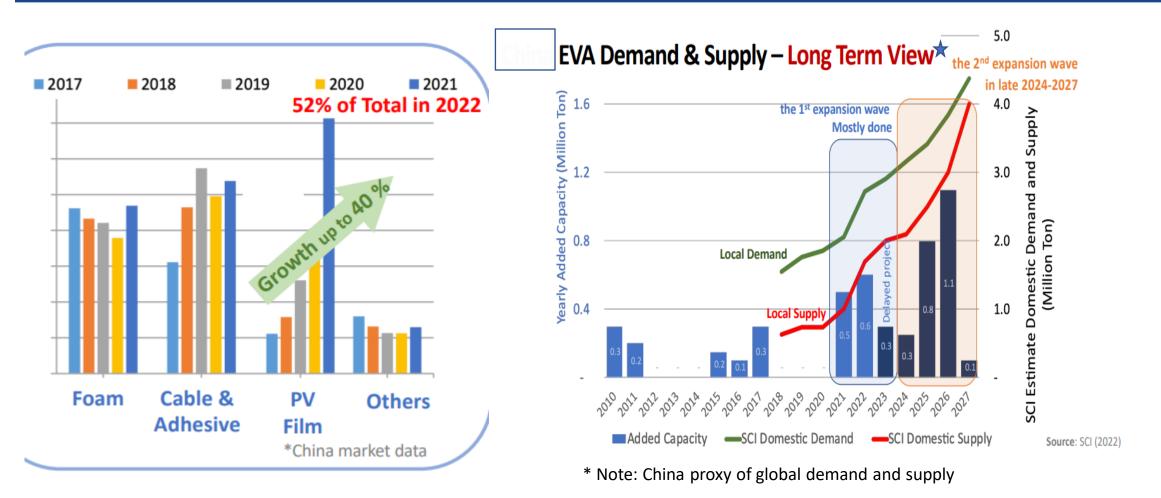




* **Caveat:** Ft will be sequentially lower for the Sep-Dec tariff

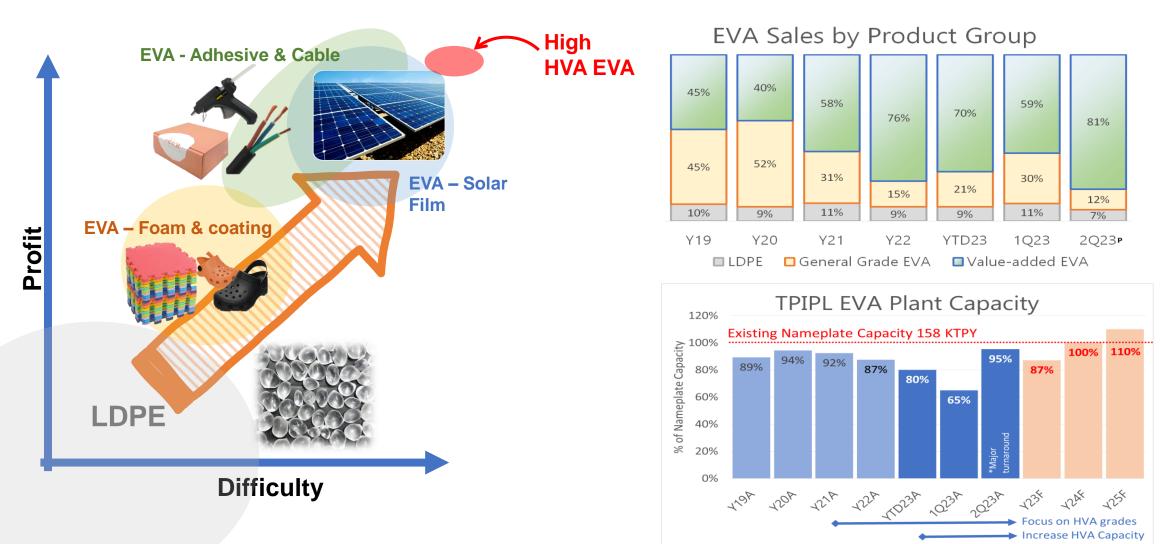


Specialty Polymer – Manufacturing is the main growth driver



TPIPL continues to push HVA limits

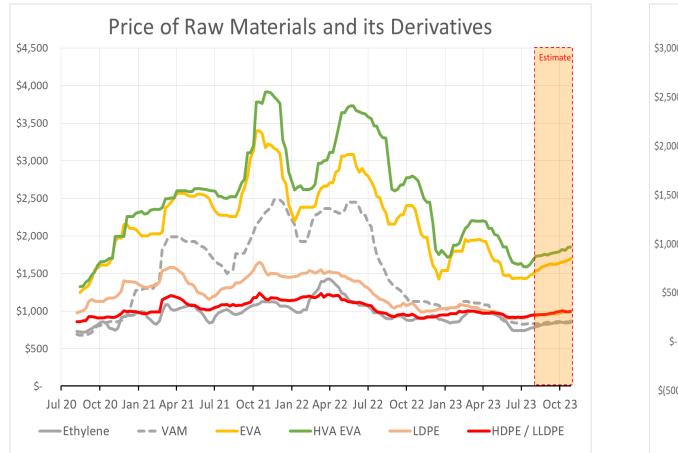


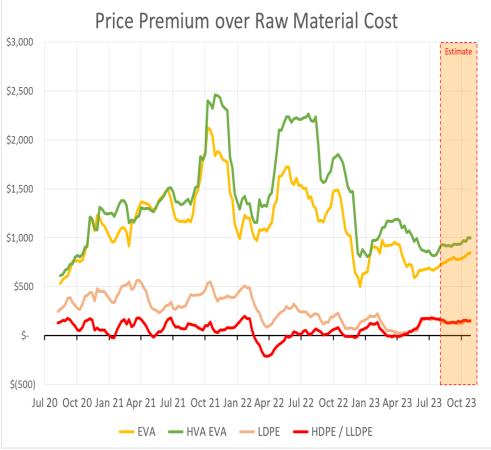


SET Opportunity Day²⁰

Polymer prices are still soft but improving







SET Opportunity Day²¹

Utilization rates in plastic conversion segment are improving



O/R projections in	Jan 2023	Feb 2023	Mar 2023	Apr 2023	May 2023	June 2023	July 2023	Aug 2023	Sept 2023	Feedstock costs - EVA				
China *														
footwear/foami	10-20%	30-40%	70-80%	50-60%	40-50%	Around 40%	Around 30%	Around 30%	30%	2,40	~ \	Proc	duct – 14	4-20%
ng sector										2,00		7 -	M	>
(VA content 14-20%)										e 1,60 05 1,20	٥			
hotmelt	70-80%	Above 80%	Above 80%	Above 90%	80-90%	90%	80-90%	80-90%	90%	Sn 1,20	•			
adhesives											~	7	A	-
sector										80	>	F		~
(VA content										40	0	\checkmark		spre
22-30%)											0			
photovoltaic	40-50%	40-60%	50-80%	50-80%	40-50%	30-40%	30-40%	70-80%	70-80%			v '22 Jan '23	Mar '23	May
(PV) sector												Asia EVA feedstock co	ists	
(VA content											nreshold Line /A VA Content 14	-20% CFR China Assess	sment Main Por	ts Spot 2-
28-33%)												ck costs [VAM: Mid]=0		Street and a street of the

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

Note:

- In the Jan-Mar spike in spreads, plastic conversion industry saw sequential rise in utilization rate especially footwear (proxy for manufacturing) rising from 10-20% to 70-80%
- The slight uptick in spreads currently is underpinned by better utilization rate in footwear and PV applications



Baseline Assumptions – slight downside on Sales & EBITDA



Item	2023E
Capacity	
- Clinker (MMt)	10.96
- Specialty Chemicals (KMt)	158
- Power (M MWh)	3.1
Production	
- Clinker (MMt)	9.50
- Specialty Chemicals (KMt)	133
- Power (M MWh)	1.9
Coal Price (THB / Ton)	3,609
Exchange Rate (THB / USD)	33
Revenue (THB Bn)	51.3
EBITDA (THB Bn)	13.3
EBITDA Margin (%)	26.0
Segment EBITDA (THB Bn)	
Construction Material	4.6
Specialty Chemicals	3.6
Power	5.2



Update:

1H23 sales is 44% of FY guidance
1H23 EBITDA is 39% of FY guidance
1H23 EBITDA margin was 23%, FY guidance 24-25%
cheaper coal
lower clinker cost
Green Cement & Clinker Products
Improved EVA spreads
1H23 Power EBITDA was 49% of FY guidance while production was 54% of FY guidance
Revised guidance (chart above) captures downside risk from softer 1H23

¹ lower utilization rate due to plant improvements replacing coal with MSW





Operational strategic agenda: improving asset turnover

Asset turnover (x, annualised basis)	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23
Construction Materials	0.29	0.23	0.25	0.22	0.23	0.25	0.20	0.22	0.31	0.29	0.31	0.25	0.32	0.32
Specialty Polymer/Chemicals	0.91	0.76	0.81	0.96	0.92	1.02	0.97	1.02	1.27	1.45	1.54	1.35	1.02	1.07
Energy and utilities	0.22	0.23	0.23	0.23	0.22	0.22	0.22	0.22	0.19	0.19	0.17	0.17	0.17	0.17
Agriculture *	0.05	0.06	0.05	0.05	0.05	0.08	0.08	0.04	0.06	0.08	0.07	0.04	0.04	0.07
Group basis	0.32	0.27	0.28	0.28	0.28	0.32	0.28	0.31	0.37	0.36	0.36	0.30	0.31	0.31
EBITDA margin (%)	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23
Construction Materials	3%	13%	14%	8%	12%	11%	15%	6%	13%	19%	10%	9%	5%	12%
Specialty Polymer/Chemicals	27%	20%	13%	38%	42%	44%	38%	46%	36%	41%	46%	28%	26%	29%
Energy and utilities	61%	60%	66%	64%	61%	66%	53%	55%	53%	51%	42%	43%	62%	58%
Agriculture *	-4%	-11%	-43%	-19%	-16%	16%	53%	-207%	38%	31%	6%	-29%	19%	15%
Group's EBITDA margin	22%	28%	28%	31%	32%	34%	32%	31%	28%	33%	29%	21%	21%	24%
EBITDA on assets (%, Annualised basis	5)													
Construction Materials	1%	3%	4%	2%	3%	3%	3%	1%	4%	6%	3%	2%	2%	4%
Specialty Polymer/Chemicals	25%	16%	11%	36%	39%	45%	37%	47%	46%	60%	71%	38%	26%	31%
Energy and utilities	13%	14%	15%	15%	14%	15%	12%	12%	10%	10%	7%	7%	11%	10%
Agriculture *	0%	-1%	-2%	-1%	-1%	1%	4%	-7%	2%	2%	0%	-1%	1%	1%
Group basis	7%	8%	8%	9%	9%	11%	9%	10%	10%	12%	10%	6%	6%	8%
Noto: * Agricultura+Others Appualized in a	ach quartar													

Note: * Agriculture+Others, Annualised in each quarter

Strategic operational agenda:

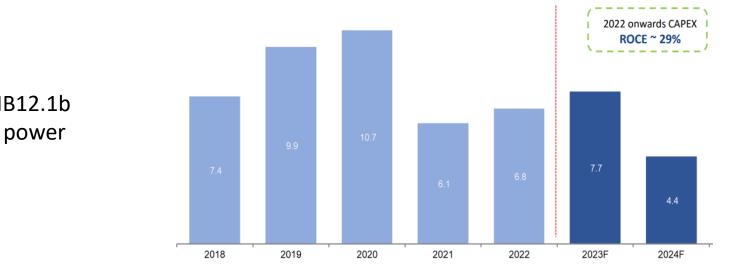
Apart from better than expected operations such as Specialty Polymers, higher utilization in power plants the other potential source of upside could come from:

- ConsMat is the division that can possibly bring higher EBITDA margin from cost efficiency and plant improvements resulting in better asset utilization rate
- Given the high operating leverage nature of the business the impact on cashflow and profits will be disproportionately higher than incremental efficiency gains
- The Agriculture division has multiple proprietary products and processes as well as high capability to scale up given high bio-compound volume as MSW handling rises



Allocated capex 2023-2024





Group = THB12.1b * mainly in power

TG 8	Modification	COD	 New	Installed	PPA	COD
Coal Replacement	Coal Replacement 1	November2023	3 Solar	79.23	66.9	2024
			Wind	5.2	5	2024
Coal Replacement	Coal Replacement 2	April 2025	Songkla	10	7.92	2024
Coal Replacement	Coal Replacement 3	June 2024	Korat	10	9.9	2025



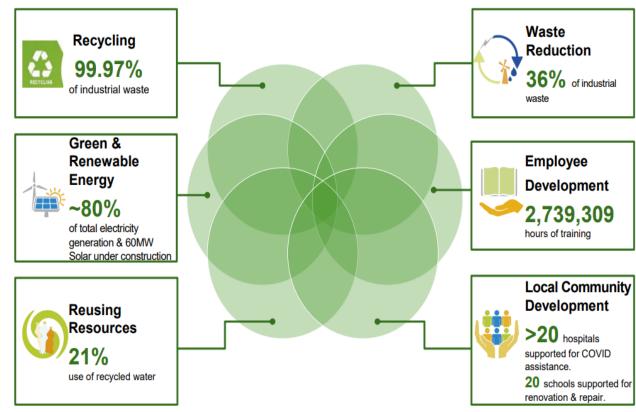


Sustainability and Other Matters

Sustainability Scorecard



Highlights of 2022



Scorecard 1H 2023

		1H 2023	
Units	Units	%	Remarks
Enviromental Management			
WTE replacing coal	207,049	14.86%	% of total
60-ton EV trucks	10		new delivery
Energy consuption reduction (GJ)	638 <i>,</i> 593	3.56%	YoY increase
GHG reduction (cement plants)	714,488	13.72%	YoY increase
Recycle water	592,324	47.48%	% of total
Recycling industrial waste	2,831	99.46%	% of total
Corporate Responsibility			
Donations (products) for public benefits	26		million baht
E,ployment Opportunities			
New jobs	464		
Seniors	56		
Human rights violations	zero		
Disposal of indusrtial wastes			
Hazardous	20,269		
Non-hazardous	7,412		

Note: as of Dec 2022



Our Carbon Situation (Scope 1)



TPIPP - cumulative T-VER certified carbon credit

Carbon Credit T-VERs Registered by	rgo
4SW Received	
1. July 2015 - May 2016	13,483 tCO2eq
2. May2016 - Apr 2017	68,573 tCO2eq
	82,056 tCO2eq
3. Sold out to Zukunft des Konlentoffmarktes	- 39,197 tCO2eq
4. Remain	42,859 tCO2eq
5. Approval Credit	717,931 tCO2eq
6. Estimated Under Verification 2022	460,000 tCO2eq

TPIPP 1,000,000,00000 878 130 0505 900.000.00000 Total REC-2022 1010-000-00010 1,452,603.74 Ev. 4 700.000.00000 800.000.00000 300,000,0000 435,458,47550 405,000.00000 300.000.00000 200,000,00000 139,015,21650 100.000.00000 5992 1998 5791 Update 25/5/2023 #1-REC Certificates Issued #1-REC Issuing in progress

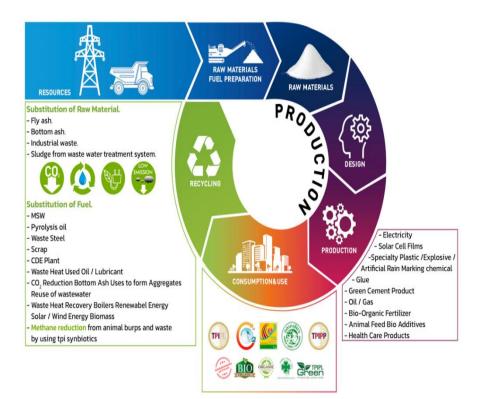
... I-REC (International Renewable Energy Certificates)

TPIPP - profile of carbon merits

Redu	ice MSW to Land fill in Year	2022
8,500 Ton / Day	25 mil Ton / Year	5.8 mil Ton-CO ₂
Redu	ice MSW to land fill in Year	2026

mand fossil-free by 2026 Mission to No Emission 220 / 440 150 / 502 0 / 538 To be Fully Green Power Plant - Zero Carbon

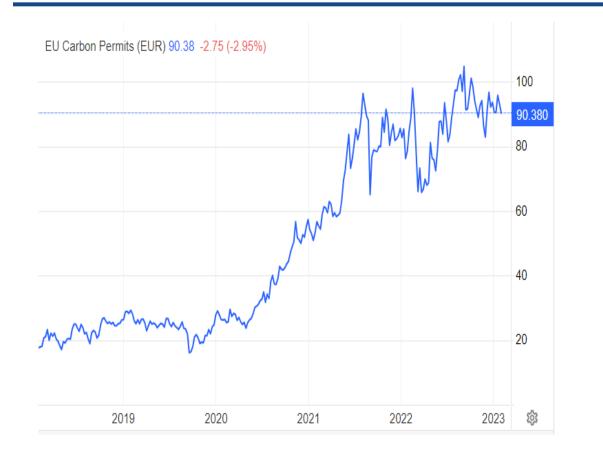
TPI Group Net Zero by 2030





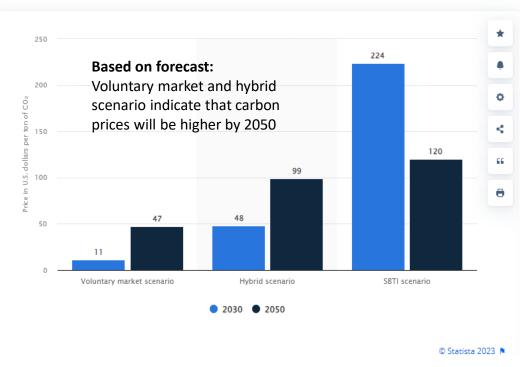
Carbon price trends





Forecast carbon offset prices in 2030 and 2050, by scenario

(in U.S. dollars per ton of carbon dioxide)



Note: SBTi requires that companies set targets based on emission reductions through direct action within their own boundaries or their value chains.



Proud Moments That Validates Our ESG and BCG Efforts



Recognitions in 2022



Inclusion into Thailand Sustainability Investment (THSI) 2022



ESG Gold level by Thaipat Institute (2022)

Inclusion into ESG Emerging list of 2022



Corporate Governance Report 2022 - Very Good

Recognitions 1H 2023





"Most Socially Responsible Conglomerate - Thailand 2022" by Global **Economics Magazine**



"Most Innovative Green

Practices Towards ESG

- Waste Management"

Thailand 2022 by

International Finance Magazine

"Best Product Innovation for Sustainable Development in Thailand 2022 by Global Economics

and of (Remain

DS & LEADE



Asia's Greatest CEO 2022-2023 by AsiaOne Magazine



Asia's Greatest Brands 2022-2023 by URS Media Consulting International



New Initiatives – Hinges on Strong R&D Capabilities





Diversify in all types of mortar (e.g. Nonshrink, sulfate-resistance and etc.)

One of the first hydraulic cement

First and only stucco wall producer

First and only cement producer that uses MSW as an alternative fuel

Linked quarry to production facility via conveyor belt saving 3.03m litres of diesel per year, and produce 1.07m kWh of electricity.

First and only producer to use fly ash to save cement in the process

First fire resistant fiber cement producer in Thailand

First and only furniture board and door frame producer from fiber cement

First and only fast drying and odorless paints for walling and other surfaces

Innovation creates competitive moats and better-than peers' margins TPIPL builds-up from in-house R&D capability; no bolt-on acquisitions

First power plant to use zerowaste policy (use up all incoming waste)

First power plant to use MSW (municipal solid waste), not only IW (industrial waste)

First and only WTE SPP (more than 10 MW capacity)



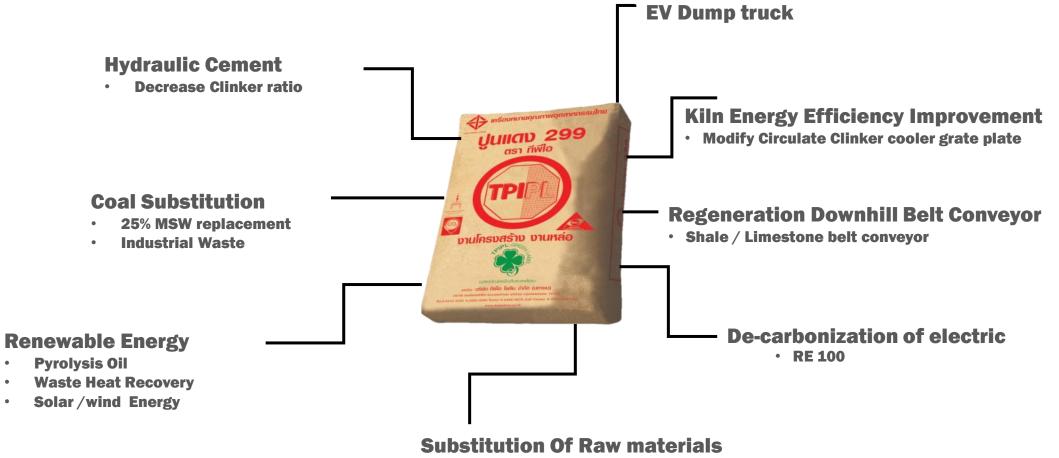
Green Cement (Low CO₂ Emission)

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- Limestone Scrap (CDE Plant)
- Fly Ash/Bottom Ash
- Sludge from wastewater treatment system



Conveyor Belt – Quarry to Facility





Linked quarry to production facility via conveyor belt saving 3.03m litres of diesel per year, and produce 1.07m kWh of electricity.



MSW in Calciners





For more details:

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



CDE for Limestone Scrap





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









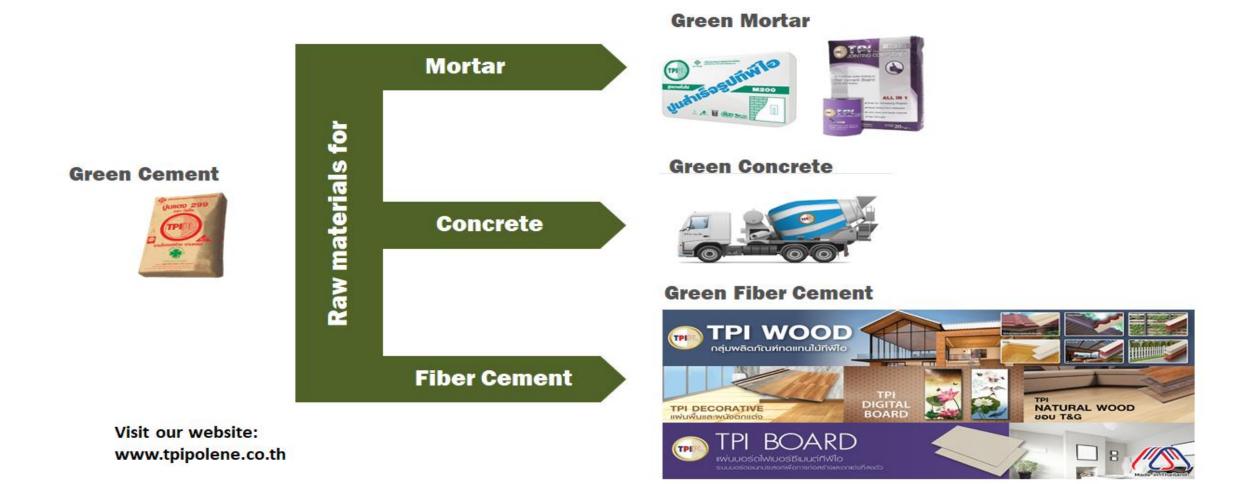
On April 7, 2023 Yutong officially shipped 10 YTK90E battery electric mining trucks, which will be delivered to TPI Polene Public Company Limited (TPIPL), the second largest cement producer in Thailand, for transporting stone between mines.

For more details

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



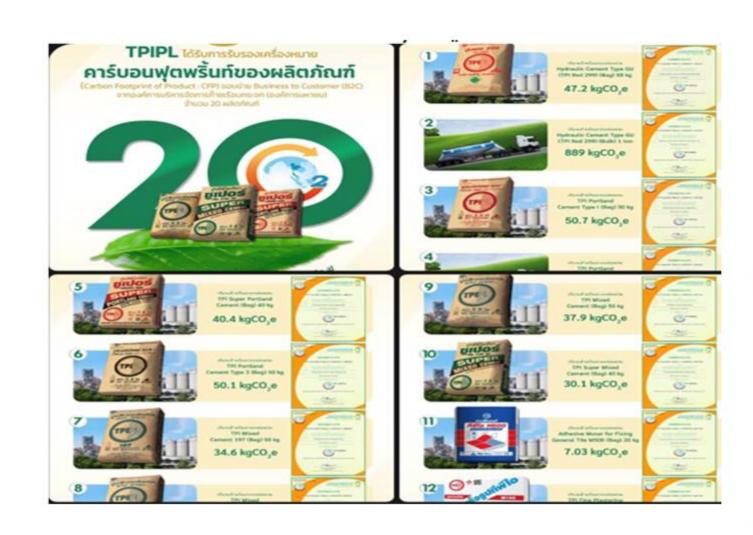








Green Cement – TGO Certified





SET Opportunity Day³⁸

Litigation Cases – Still At The Supreme Court



Case	Case	Plaintiff	Charge/	The Court orde Environmental A	• • •	status
	Date		Offense	Refill Rocks (Mil. Tons)	Pay (Mil. Baht)	
Sor Vor 4/2559	8/7/2015	Department of		31.52	4,047	Pending the Supreme Court Consideration
Sor Vor 5/2559	24/3/2016	Primary Industry and Mines,	The violation in mining activity	12.48	1,603	Pending the Supreme Court Consideration
Sor Vor 6/2559	24/3/2016	Ministry of Industry (has no	(under Mineral Acts B.E. 2510 and	2.45	314	Pending the Supreme Court Consideration
Sor Vor 1/2560	2/3/2017	authority in Environmental	Environmental Acts B.E. 2535)	1.22	326	Pending the Supreme Court Consideration
Sor Vor 2/2561	21/6/2018	Acts B.E. 2535)	Acts D.L. 25557	0.25	67	Pending the Supreme Court Consideration
	•		Total	47.92	6,357	~THB0.34/shr; BVPS = THB3.36 (2Q23)

Share price = THB1.57 (7/9/23)

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

- 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. 400 million tons of industrial mineral rock left and forfeited. 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 return 431 million to the government later. At the moment, the concession for all these areas have been renewed including the disputed buffer zones.

From December 2021 until 2Q 2023, the Company has been granted limestone and shale concession for the manufacturing of cement industry from the Department of Primary Industries and Mines, totaling 24 plots, with long-term concession period of 20-30 years for limestone and shale reserves total 431.06 million tons (averaging 15.97 million tons /year). If TPIPL needs more limestone, the company can apply for additional limestone concession in the future.



