



TPI Polene: 1Q23 Company Update SET Opportunity Day Presentation



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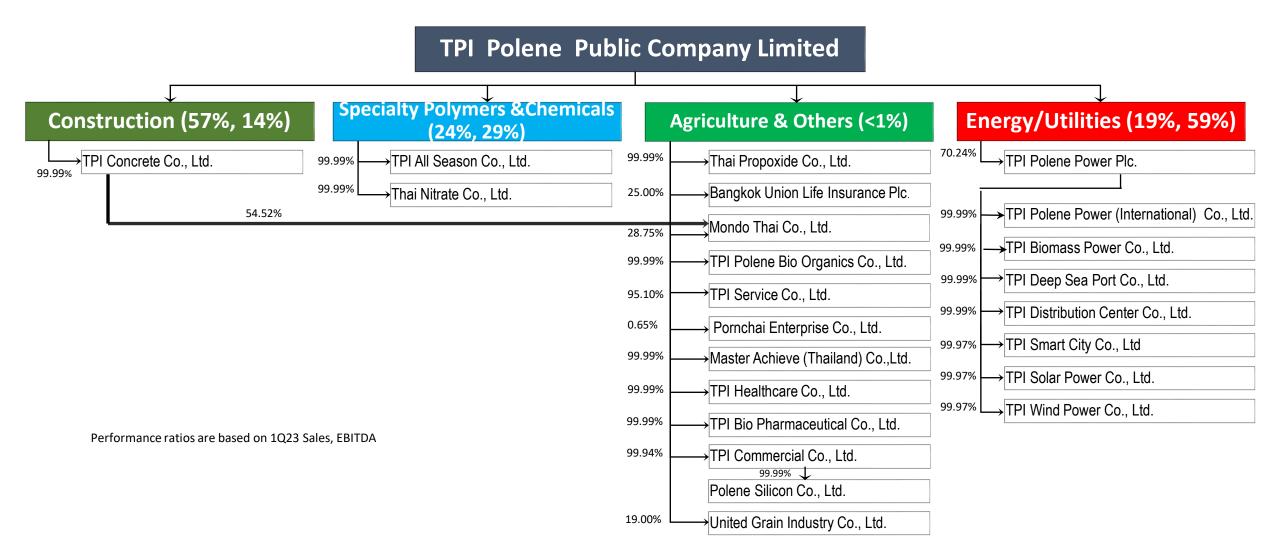
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Topics

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







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

Our Products – over 5,000 SKUs









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)



Materials

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



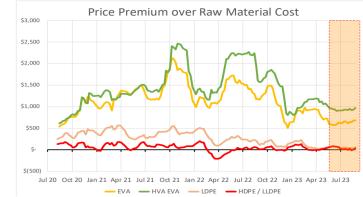
Evidence: how the EBITDA performance stacks up?

	1Q22	2Q22	1H avg	3Q22	4Q22	1Q23
ConsMat						
Player 1	12.0%	9.8%	10.9%	7.7%	4.0%	10.0%
Player 2	22.0%	25.0%	24.0%	13.0%	7.0%	15.2%
TPI Polene	13.0%	19.3%	16.1%	10.3%	8.7%	5.2%
Petrochemical						
Player 1 - operating only	6.7%	2.0%	4.4%	3.4%	-2.9%	5.0%
Player 2 - polymers & chemicals	5.0%	9.0%	7.0%	10.0%	0.0%	8.0%
Specialty ** - value added PE	19.6%	17.3%	18.5%	15.0%	20.0%	17.0%
TPI Polene	36.0%	41.4%	38.7%	46.0%	28.0%	26.0%
** EV anda in March						

** FY ends in March

Source: SET, Companies

Specialty Polymers' superior spread profile



Peer comparison at the corporate level

ConsMat		2022			1Q23	
THB m	Player 1	Player 2	TPIPL	SCC	SCCC	TPIPL
Sales	569,609	50,126	48,133	128,748	11,353	11,283
% growth	8%	20%	23%	-16%	-10%	-9%
EBITDA - operating	61,912	9,068	13,371	12,170	1,720	2,361
% margin	11%	18%	28%	9%	15%	21%
% growth	-67%	-4%	6%	-31%	-39%	-32%
Reported net profit to owners	21,382	1,857	7,008	16,526*	758	646
% growth	-55%	-56%	24%	87%	-6%	-64%
% margin	4%	4%	15%	13%	7%	6%
% margin - SCC adjusted*				1%	7%	6%
Net Debt (IBD)	268,844	18,526	59,747	267,542	19,276	60,865
Net debt/EBITDA annualised				5.50	2.80	6.44
* SCC gains from fair value adjustment	t OCF basis			(15,186)		



Local peer comparison - share price performance *



Still bearish



Comparative Valuation	
PE (x)	13
Dividend Yield (annualised basis)	
Latest Dividend (THB)	8
PBV (x, BV March 2023)	(
Notes: BV as of March 2023; Closing p	orice: 25 May
Source: Reuters	

Mildly Bearish



Speculative

Gulf Ener	gy Developr	nent PCL	 Watchlist 	🖄 Share	₹ Compare
48.00	AT CLOSE -0.25 (-0.52%)		MAY 25, 05:03 PM UT)	C +07:00	Summary



SCC	SCCC	TPIPL	EPG	GULF	TPIPP
13.87	22.03	4.82	16.99	13.69	9.29
4%	7%	7%	4%	1%	7%
8.00	9.00	0.10	0.30	0.60	0.24
0.93	1.26	0.52	1.69	4.98	0.88
25.44					

Mildly positive



Accumulate



* All data is from Reuters



Financial Performance & Position

Highlights of 1Q23



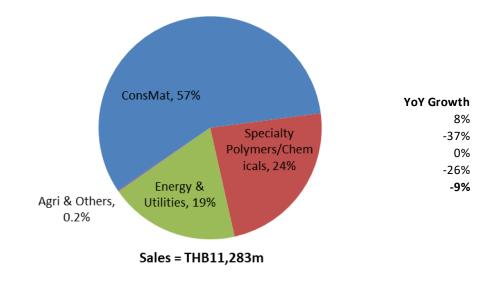
				Commo	n Size				Growt	h
THB million	2022	2021	% Gr <u>owth</u>	2022	1Q23	2021	1Q22	1Q23	ΥοΥ	QoQ
Revenue	48,133	38,920	24%	100	100	100	12,435	11,283	-9%	5%
COGS	35,277	26,391	34%	73	79	68	9,032	8,881	-2%	8%
Gross Profit	12,856	12,529	3%	27	21	32	3,402	2,402	-29%	-2%
SG&A	5,763	5,394	7%	12	12	14	1,514	1,383	-9%	-2%
Finance cost	1,935	2,062	-6%	4	4	5	484	470	-3%	-6%
Tax expense	(166)	(539)	-69%	(0)	1	(1)	25	87	249%	568%
Forex gains (loss)	437	391	12%	1	0	1	46	14	-70%	-109%
Normal operating profit (ex tax, ex fx)	7,573	7,067	7%	16	9	18	2,033	1,030	-49%	-6%
Profit for the year	7,845	6,918	13%	16	8	18	2,054	957	-53%	4%
Profit attributable to the owners	7,008	5,671	24%	15	6	15	1,800	646	-64%	-14%
EBITDA	13,371	12,641	6%	28	21	32	3,449	2,361	-32%	4%
Segment Breakdown - 1Q23	Sales	YoY Growth	EBITDA	YoY Growth	EBITDA margin	Total Assets	YoY Growth	PPE ca	pex consol = TI	HB2.14b
ConsMat	57%	8%	14%	-57%	5%	80,542	3%	of whi		
Specialty Polymers/Chemicals	24%	-37%	29%	-55%	26%	10,447	-22%	PPE ca	pex TPIPP = T	HB0.99b
Energy & Utilities	19%	0%	56%	18%	62%	48,863	9%			
Agri & Others	0.2%	-26%	0.2%	-62%	19%	2,045	-3%	Note: (PPE	data above ref	ers to all
Total (THB million)	11,283	-9%	2,361	-32%	21%	146,282	9%	PPE		

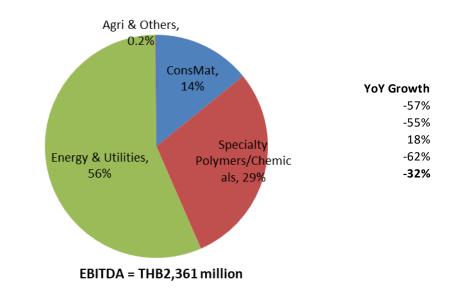
• Performance deteriorated in 1Q23, sales contracting 9% YoY. Among the three major ConsMat companies TPIPL has the slowest deceleration.

- Weaker sales due to slower clinker exports capping improvement in ConsMat, lower selling prices of specialty chemicals lower volumes March due to maintenance shutdown of input supplier starting March
- QoQ shows a slight improvement due to better sales at the ConsMat division (+24%) and Energy & Utilities (10%).
- Specialty Polymer/Chemical division was the star in 2022 with margins hitting close to 40%, in 1Q23 it was weak with margins down in the 20-30% range. Take note that compared to SCC, PTTGC and EPG, its margin is still higher thanks to favorable product positioning in the HVA scale
- Energy & Utilities was the weakest division in 2022 but this has begun to show improvement QoQ on higher utilization rate and completion of plant improvement projects
- 1Q23 EBITDA reached THB2.4b, down 32% YoY but up 4% QoQ; this is tracking lower relative to our full year target but we expect sequential
 improvement on the back of 1) higher ConsMat sales, 2) volumes normalizing in Specialty Chemicals even with softer spreads 3) better performance of
 the Energy (higher throughput and lower cost)

Segment performance 1Q23



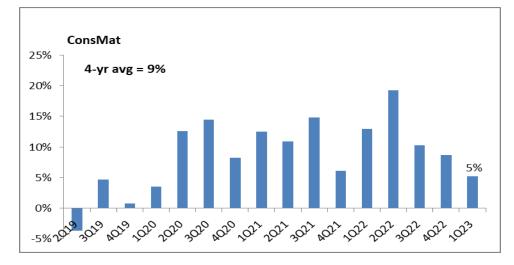


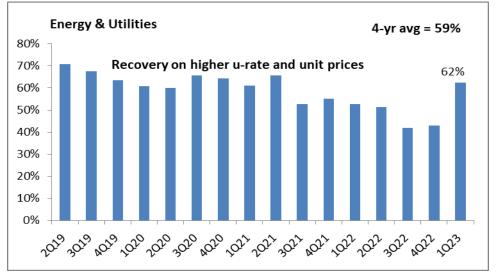


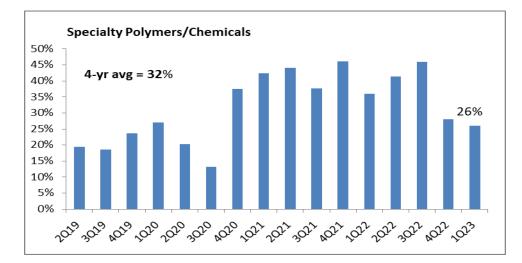
	EBITDA margin
ConsMat	5%
Specialty Polymers/Chemicals	26%
Energy & Utilities	62%
Agri & Others	19%
Overall	21%

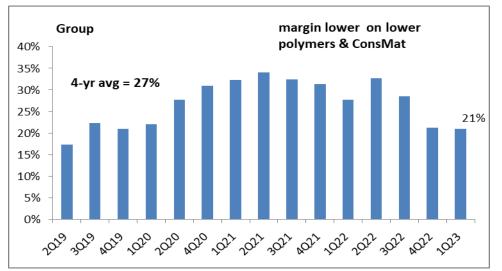
EBITDA margin weathering the slowdown well





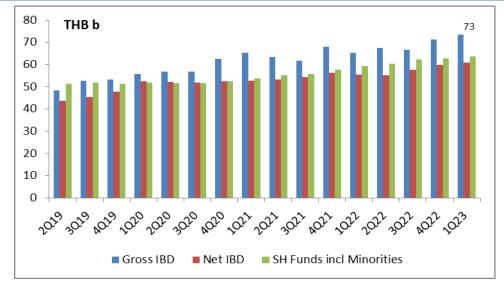


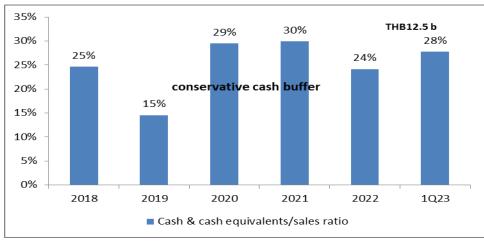


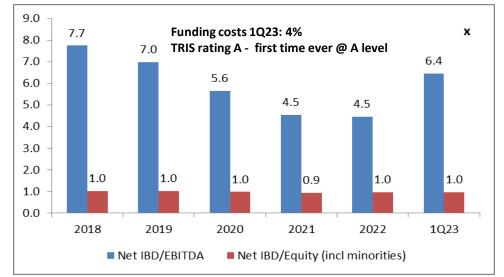


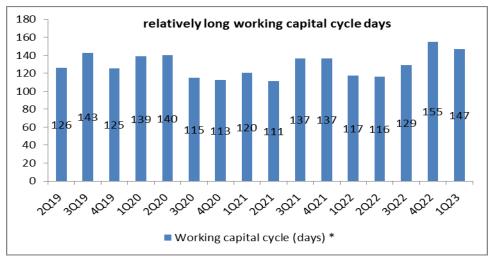
Financial Position – falling leverage ratio; defensive cash positioning











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



Guidance



Key Drivers – short term

- Increased real estate development and renovation activities especially on the back of improving tourism
- Infrastructure spending to improve slightly, though might temporarily slow if budget spending is delayed (new government)
- Product price adjustments still continues to offset higher energy cost due to Ft
- Coal price is moderating temporarily
- Higher Ft raises production cost of cement, but for TPI this is offset by higher revenue from power
- Rebound in ConsMat and Energy/Utilities EBITDA following partial completion of the cost efficiency and improvement projects. With MSW replacement in our clinker process, coal consumption is lower
- Improvement in demand for specialty polymers and hotmelts for innovative packaging & cables including EV could lead to improvement starting 3Q along with demand for manufacturing; 1Q23 spread is still within base assumption of USD1,000/ton
- Fiscal stimulus to combat recession will underpin global demand; new government focus is rural development so spending could filter down to more household and create multiplier effects; not the case in previous stimuli

Business Plan: Maintain Baseline Assumptions For Now



Item	2022A	2023E
Capacity		
- Clinker (MMt)	10.96	10.96
- Specialty Chemicals (KMt)	158	158
- Power (M MWh)	3.1	3.1
Utilization %		
- Clinker	86%	87%
- Specialty Chemicals	91%	84%
- Power ¹	52%	62%
Production	Ŭ	
- Clinker (MMt)	9.45	9.50
- Specialty Chemicals (KMt)	143	133
- Power (M MWh)	1.6	1.9
Contribution/Spread (THB/Mt)		
- Cement (THB/Mt)	687	925
- Specialty Chemicals (USD/Mt)	1,600	1,091
- Power (THB/KWh)	3.42	3.79
Coal Price (THB / Ton)	3,540	3,609
Exchange Rate (THB / USD)	35	33

2021	2022	2023E
40.8	50.5	51.3
12.6	13.4	13.3
30.8	26.5	26.0
11.9	10.0	11.9
4.8	4.5	4.3
51.1	48.7	45.9
17.2	16.7	19.2
9.9	10.5	10.6
16.3	17.5	18.2
4.9	5.4	6.3
	40.8 12.6 30.8 11.9 4.8 51.1 17.2 9.9 16.3	40.850.512.613.430.826.511.910.04.84.551.148.717.216.79.910.516.317.5

Segment EBITDA (THB Bn)

Construction Material	1.8	2.7	4.6
Specialty Chemicals	5.4	6.5	3.6
Power	5.4	3.9	5.2

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



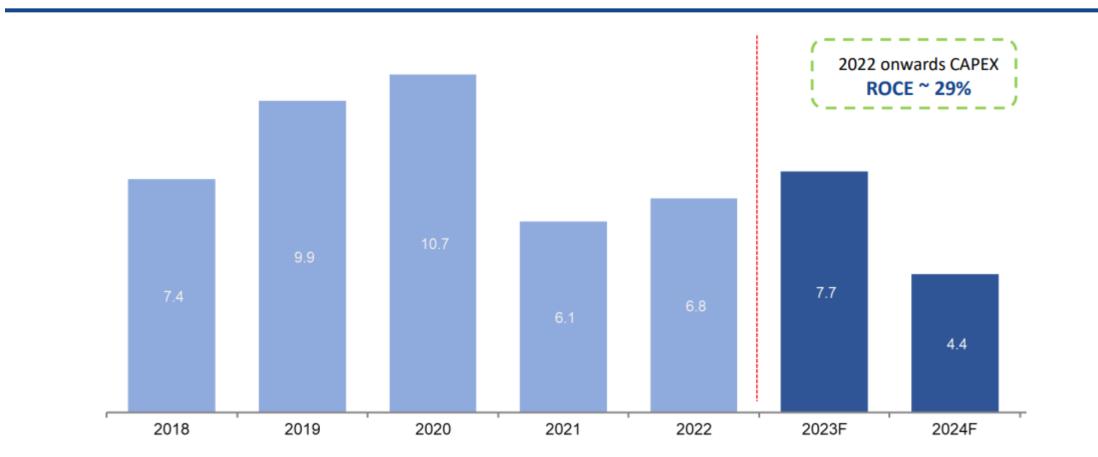
Upside Potential: Improving Asset Turnover

Asset turnover (x, annualised basis)	1Q19	2Q19	3Q19	4Q19	1Q20	2Q20	3Q20	4Q20	1Q21	2Q21	3Q21	4Q21	1Q22	2Q22	3Q22	4Q22	1Q23
Construction Materials	0.31	0.31	0.28	0.30	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
Specialty Polymer/Chemicals	0.95	1.02	0.87	0.93	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
Energy and utilities	0.25	0.26	0.25	0.27	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
Agriculture *	0.05	0.05	0.04	0.05	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
Group basis	0.34	0.35	0.30	0.33	0.32	0.27	0.28	0.28	0.28	0.32	0.28	0.31	0.37	0.36	0.36	0.30	0.32
EBITDA on assets (%, Annualised basis))																
Construction Materials	0.02	(0.01)	0.01	0%	1%	3%	4%	2%	3%	3%	3%	1%	4%	6%	3%	2%	2%
Specialty Polymer/Chemicals	0.14	0.20	0.16	22%	25%	16%	11%	36%	39%	45%	37%	47%	46%	60%	71%	38%	26%
Energy and utilities	0.16	0.18	0.17	17%	13%	14%	15%	15%	14%	15%	12%	12%	10%	10%	7%	7%	11%
Agriculture *	(0.00)	(0.01)	(0.03)	-1%	0%	-1%	-2%	-1%	-1%	1%	4%	-7%	2%	2%	0%	-1%	1%
Group basis	7%	6%	7%	7%	7%	8%	8%	9%	9%	11%	9%	10%	10%	12%	10%	6%	7%
Annualised in each quarter																	

Growth agenda:

- ConsMat is the division that can possibly bring higher EBITDA margin from higher sales, 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 higher bio-compound volumes as MSW handling increases

Capex Plan: setting high ROCE hurdle



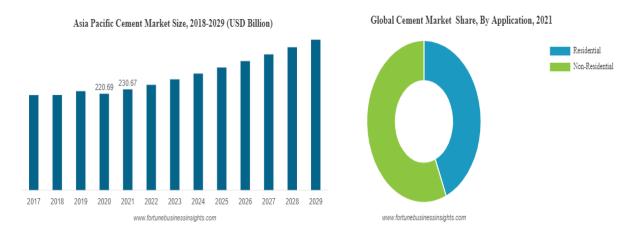
- Funding secured hence de-risked
- High ROCE is because most of these projects are cost savings
- Production facilities are also relatively new, better technologies



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Outlook

ConsMat should see improved outlook



Source: Fortune Business Insights

Strong political will and visionary governments are needed to execute programs in most of the southeast Asian countries. However, China and the US are expected to lead in the roll out of their planned stimulus programs.

Cement and other construction materials are by nature bulky and of low value, thus it tends to move within the region of proximity. However, because of stringent laws especially on environmental consideration, there have been no major capacity build up in the past five years. Thus a surge in demand could result in higher product prices

Strong demand in AsiaPac eases excess supply conditions and will allow prices to rise, first in the export and then in the domestic market.

Thailand is a big exporter of high quality cement. TPIPL being the largest exporter of clinker is well-placed to benefit from the anticipated trend.



The Global cement market was valued at USD327 billion in 2021 and USD231 billion of that was in Asia-Pacific. Global cement market is forecast to grow 5.1% pa hitting USD482 billion in 2029, c. 75% of will be in AsiaPac.

Non-residential demand of cement has always been the bigger driver. Thus, the de-facto **major** consumer of cement is the public sector. Residential demand is cyclical and vulnerable to economic slowdown and tightening financial conditions.

Government driven demand is countercyclical. Various forms of stimulus programs kick in when economies slow down.

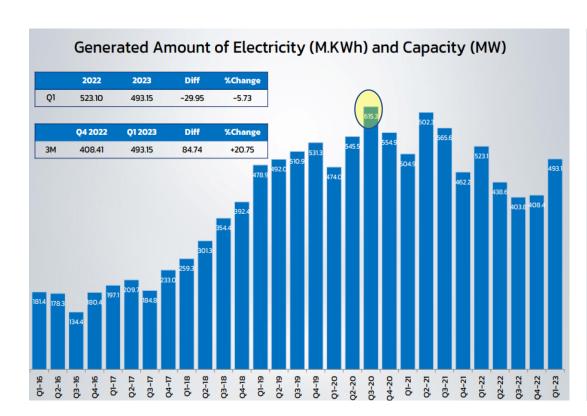
Emerging from the pandemic-induced weakening of the economy as well as repair and reconstruction from the damages of adverse climatic conditions and war, we expect many governments across the globe to roll out big and small infrastructure projects either under public financing or PPP

Mostly watched globally and nearby:

- 1) Build, Back, Better Plan of the US costing USD2.2 trillion
- 2) China Stimulus program worth USD1 trillion
- 3) New capital city of Indonesia
- 4) Build, Build More in the Philippines
- 5) Industry 4.0 Plan for Vietnam



Power throughput and price post adder expiry



Sale Price after ADDER Expired

	РРА	Adder Expired	2018 Lowest FT	2022 Low FT	2023 (JanApr.) High FT	2023 (May-Dec.) Medium Fl
SPP	18 MW	JAN 2022	6.2482	3.3089	4.3817	4.1343
SPP	55 MW	AUG 2022	6.2387	5.6288	4.4093	4.1619
SPP	90 MW	APR 2025	6.2433	6.7011	7.9045	7.6571
	163 MW		6.2423	6.0691	6.5208	6.2734
IPS	220 MW		2.9734	3.7224	4.6989	4.1324



Historical Ft - likely to remain positive & high relative to recent history

				Unit : S	Stang/kW	h						
	Jan	Feb	Mar	Apr	Мау	June	July	Aug	Sep	Oct	Nov	Dec
2023 - residence	93.43	93.43	93.43	91.19	91.19	91.19						
2023 - others	154.92	154.92	154.92	154.92								
2022	1.39	1.39	1.39	1.39	24.77	24.77	24.77	24.77	93.43	93.43	93.43	93.43
2021	-15.32	-15.32	-15.32	-15.32	-15.32	-15.32	-15.32	-15.32	-15.32	-15.32	-15.32	-15.32
2020	-11.6	-11.6	-11.6	-11.6	-11.60	-11.60	-11.60	-11.60	-12.43	-12.43	-12.43	-12.43
2019	-11.6	-11.6	-11.6	-11.6	-11.6	-11.60	-11.60	-11.60	-11.60	-11.60	-11.60	-11.60
2018	-15.9	-15.9	-15.9	-15.9	-15.90	-15.90	-15.90	-15.90	-15.90	-15.90	-15.90	-15.90
2017	-37.29	-37.29	-37.29	-37.29	-24.77	-24.77	-24.77	-24.77	-15.90	-15.9	-15.90	-15.90
2016	-4.8	-4.8	-4.8	-4.8	-33.29	-33.29	-33.29	-33.29	-33.29	-33.29	-33.29	-33.29
2015	58.96	58.96	58.96	58.96	49.61	49.61	49.61	49.61	46.38	46.38	46.38	46.38
2014	59	59	59	59	69	69	69	69	69	69	69	69
2013	52.04	52.04	52.04	52.04	46.92	46.92	46.92	46.92	54	54	54	54
2012	0	0	0	0	0	30	30	30	48	48	48	48
2011	86.88	86.88	86.88	86.88	95.81	95.81	-6	-6	-6	-6	-6	-6
2010	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55
2009	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55	92.55
2008	66.11	68.86	68.86	68.86	68.86	62.85	62.85	62.85	62.85	77.7	77.7	77.7
2007	78.42	73.42	73.42	73.42	73.42	68.42	68.42	68.42	68.42	66.11	66.11	66.11
2006	56.83	75.84	75.84	75.84	75.84	85.44	85.44	85.44	85.44	78.42	78.42	78.42
2005	43.28	43.28	43.28	43.28	43.28	46.83	46.83	46.83	46.83	56.83	56.83	56.83
2004	26.12	38.28	38.28	38.28	38.28	38.28	38.28	38.28	38.28	43.28	43.28	43.28
2003	26.12	26.12	26.12	26.12	26.12	26.12	26.12	26.12	26.12	26.12	26.12	26.12
2002	22.77	21.95	21.95	21.95	21.95	21.95	21.95	21.95	21.95	21.95	21.95	21.95
2001	0	24.44	24.44	24.44	24.44	27.13	27.13	27.13	27.13	22.77	22.77	22.77
2000	56.32	56.32	56.32	61.52	61.52	61.52	61.52	64.52	64.52	0	0	0
1999	50.71	50.71	50.71	32.61	32.61	32.61	32.61	37.92	37.92	37.92	37.92	56.32
1998	42.4	42.4	42.4	50.45	50.45	50.45	50.45	55.77	55.77	55.77	55.77	50.71
1997	18.28	18.28	26.73	26.73	26.73	26.73	26.73	26.73	26.73	26.73	42.4	42.4
1996	18.1	18.1	18.1	22.87	27.84	22.5	25.82	25.82	25.82	20.42	25.6	25.6
1995	7.5	7.5	14.85	14.85	14.85	17.35	24.7	19.95	23.82	18.1	18.1	18.1
1994	6.91	6.91	3.56	0.36	9.53	2.8	2.8	-0.53	7.5	7.5	7.5	7.5
1993	8.39	8.39	8.39	5.32	5.32	5.32	3.24	-1.86	-1.86	-1.86	-1.86	-1.86
1992	0	0	0	0	0	0	0	0	6.17	6.17	6.17	6.17

Future Plans Already in Allocated Capex



MSW Power Plants Awarded

- Songkhla	7.92 MW
- Nakhon Ratchasima	9.9 MW

Other Renewables

Solar Farm Installed capacity: 61.226 MWp 92m kWh/yr COD: 2023-2024 Investment: 1,700 MB Annual Revenue: 400 MB

Wind Farm Installed capacity: 5MW 10m kWh/yr COD: 2024 Investment 180 MB Annual Revenue: 20 MB

Others: Production and sale of AF to TPIPL 400K TPY MSW Annual Revenue: 400 MB

1st Phase Project Coal Replacement

• Coal Replacement 15 %

COD DEC 2022

- 2nd Phase Project Coal Replacement
- Coal Replacement 10 %
- COD DEC 2022
- **3**rd Phase Project Coal Replacement
- Coal Replacement 15%

COD Apr 2023

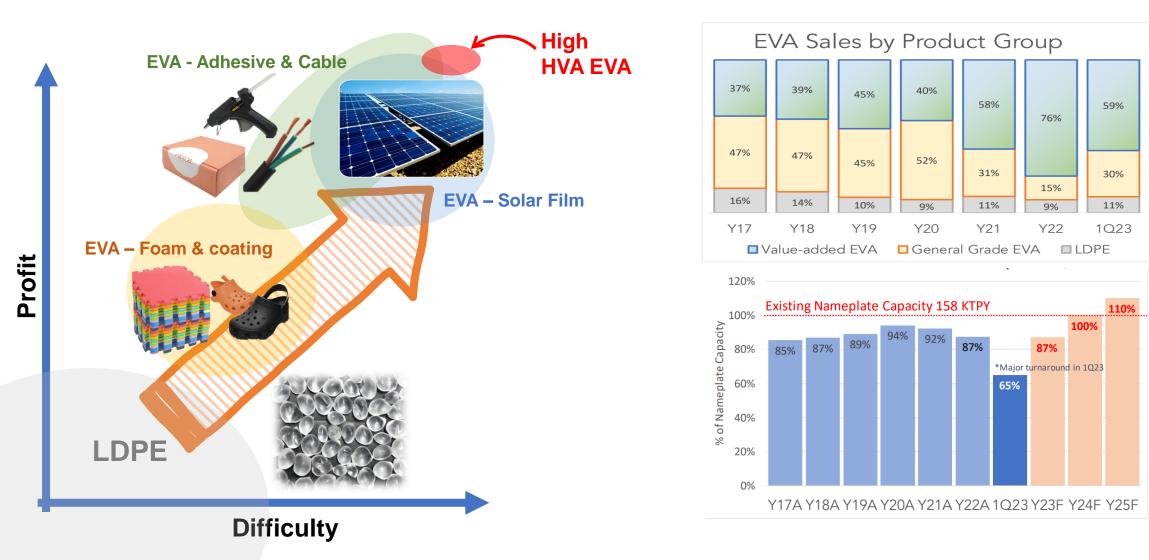
- 4th 6th Phase Coal Replacement
- Coal Replacement 60%

• COD 4th Phase AUG 2024, 5th Phase NOV 2024, 6th Phase APR 2025

* Awarded to TPIPP

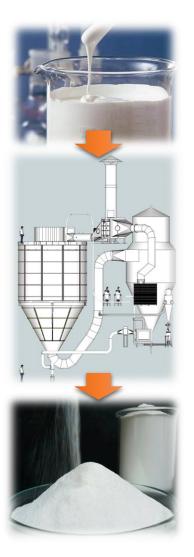
Specialty Polymer – Development of High HVA





Specialty Polymer – Expansion of VAE





Increase EVA powder installed capacity 6,000 TPY Making the total capacity jump 4x

EVA Powder <u>spread is 5x EVA</u> <u>emulsion</u>, and <u>lesser price volatility</u> than EVA resin

Potential EBITDA increase of 40-60 million Baht on annualized basis at current margins to be realized in 2023

ZV1055 – High speed hotmelt (MFI-800)

Roughly 10% premium over top hotmelt adhesive grade; a potential EBITDA increment of 15-20 million baht annually at current prices. Already operational Few producers and low threat from new Chinese capacities; thus, more sustainable profit.

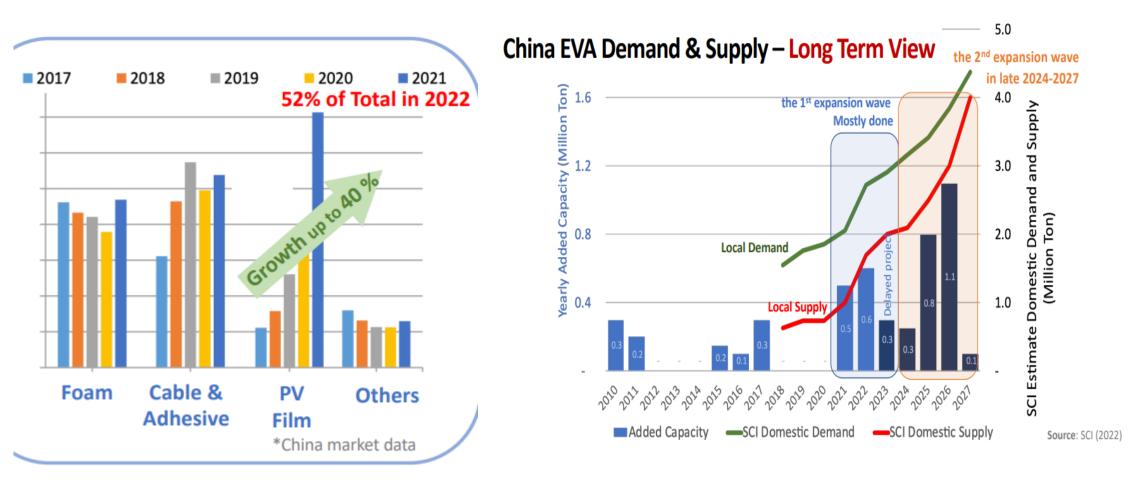


has successfully installed a pilot reactor for "very high-pressure" pilot reactor and been experimenting with new co-polymer products. We are the only Asian producer capable of testing polymerization with copolymer at **3,000 bar+.**

Action	Target	Status
Install VHP Pilot Reactor	2Q 2022	Done
Experiment with new Co- polymer product	3Q 2022 onward	In progress
Procurement of new commericial equipments	1H 2023	
Installation & Commissioning new products	2H 2024	

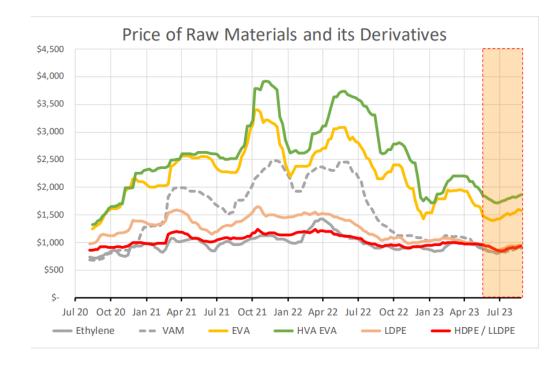
Specialty Polymer – China Is the Main Growth Driver

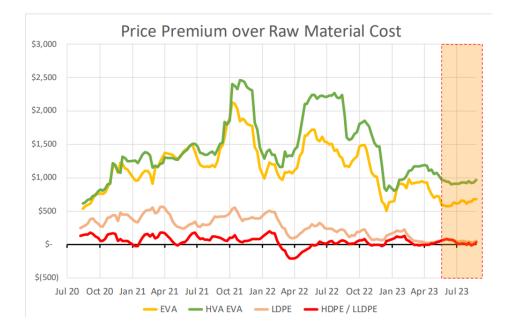




Polymers – commodity and specialty grades: spot prices (Asia)







Soft market overall but is bottoming



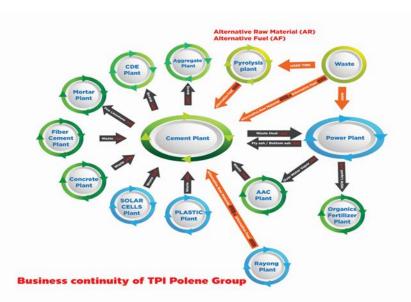
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Sustainability and Other Matters

Our Bio-Circular-Green (BCG) Economy Proposition







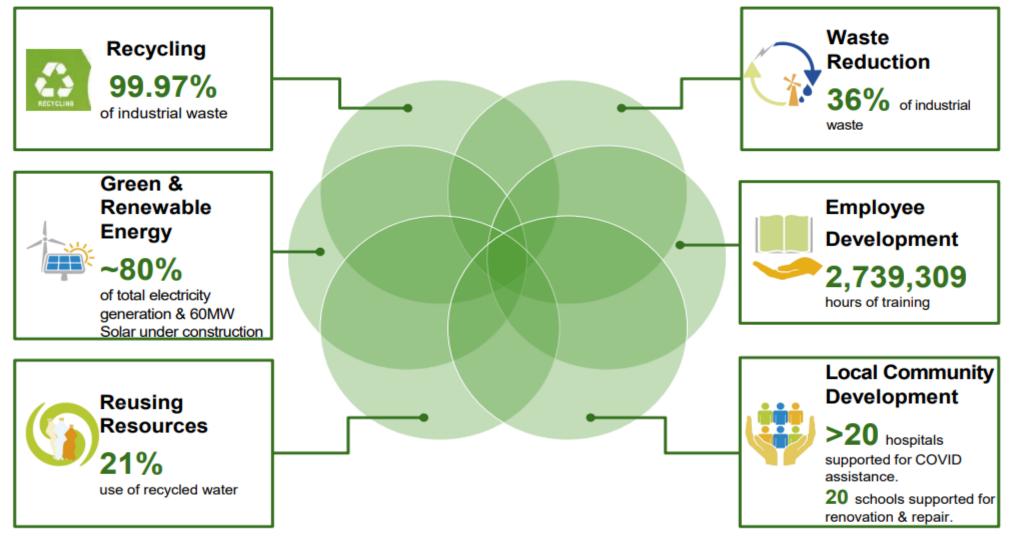
Carbon Merits of TPIPP

Reduce MSW to Land fill in Year 2022							
8,500 Ton / Day	2.5 mil Ton / Year	5.8 mil Ton-CO ₂					
Reduce MSW to land fill in Year 2026							
17,000 Ton / Day	5.2 mil Ton / Year	12.0mil Ton-CO ₂					



Sustainability 2022





Note: as of Dec 2022

Proud Moments: 2022







ESG Gold level byInclusion into ESGThaipat Institute (2022)Emerging list of 2022



Corporate Governance Report 2022 – Very Good



0	-	SET	N.
14 6 6	Certificate	of Recognition	
	TPI POLENE	POWER PCL	
	is selected as a member of Thailand Sust	tainability Investment (THSI) for the year 2022	
	ANALAS A		
	This Certificate is presented to th sublianding achievements in corporate sublima	e company to honor its continuous and drifty, thereby benefiting the environment and society	
	Hutte	& &	
	Desirves of 955 Consulting The Next Sectoring of Flatland	Parliance Proclassing and Indiana	

Inclusion into SET Thailand Sustainability Investment List



"Most Socially Responsible Conglomerate – Thailand 2022" by Global Economics Magazine



"Most Innovative Green Practices Towards ESG – Waste Management" Thailand 2022 by International Finance Magazine



for Sustainable Development in Thailand 2022 by Global Economics



Asia's Greatest CEO 2022-2023 by AsiaOne Magazine



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



Litigation Cases

Case	Case	Plaintiff	Charge/		ne Company by .E. 2535 to either	status											
	Date	Date	Offense	Refill Rocks (Mil. Tons)	Pay (Mil. Baht)												
Sor Vor 4/2559	8/7/2015	Department of	The violation in mining activity (under Mineral Acts B.E. 2510 and Environmental Acts B.E. 2535)	31.52	4,047	Pending the Supreme Court Consideration											
Sor Vor 5/2559	24/3/2016	Primary Industry and Mines,		mining activity (under Mineral Acts B.E. 2510 and Environmental	12.48	1,603	Pending the Supreme Court Consideration										
Sor Vor 6/2559	24/3/2016	Ministry of Industry (has no			•	•	•	•	•	·	`	`	`	`	2.45	314	Pending the Supreme Court Consideration
Sor Vor 1/2560	2/3/2017	authority in Environmental			1.22	326	Pending the Supreme Court Consideration										
Sor Vor 2/2561	21/6/2018	Acts B.E. 2535)			, icis B.L. 2000)	1005 0.2. 2000)	0.25	67	Pending the Supreme Court Consideration								
	·		Total	47.92	6,357	Equivalent to THB0.34/share											

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.
- 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. At the moment, the concession for all these areas have been renewed including the disputed buffer zones.

From December 2021 until 1Q 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.



		Charge /	Court ordered	
Case Date	Plaintiff	Charge/ Offense	Value (Mil. Baht)	status
2/6/2017	Tham Phra Phothisat Temple	The court called the Company to be an interpleader for the claim that the Defendants' issuance of Prathanabat to the Company is done in contradiction to regulation of Ministry of Interior	Depend on the value of rock used	The Central Administrative Court dismissed the lawsuit Pending in the Supreme Administrative Court
20/6/2019	Tham Phra Phothisat Temple	The application for Prathanabat of the Company is unlawful	unspecified	Pending in the Central Administrative Court
16/12/2019	222 individuals	Sue requesting for revocation of the approval of EHIA report for the 150 MW power plant, the license to operate the business and the construction approval of the subsidiary.	-	Pending in the Central Administrative Court



Knowledge Sharing

Source: SET Filing, Listed Company Presentation

* Note: 1Q23 demand for ceramics – Jan-Feb actual, Mar is estimate

ASEAN (ex-Thailand) market

SET Opportunity Day

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Q1/22	Q2/22	Q3/22	Q4/22	FY2022	Q1/23
-3%	-7%	+6%	+3%	-0.5%	+2%
-4%	-7%	+5%	+2%	-1.6%	-1%
-3%	-6%	+8%	+3%	+0.2%	+1%
-1%	-6%	+6%	+4%	+0.4%	+6%
-6%	-7%	+9%	+4%	-1%	+8%
0%	-2%	+8%	+11%	+4%	+1%
-2%	-2%	+8%	+2%	+1%	-2%
	-3% -4% -3% -1% -6% 0%	-3% -7% -4% -7% -3% -6% -1% -6% -6% -7% 0% -2%	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-3% $-7%$ $+6%$ $+3%$ $-0.5%$ $-4%$ $-7%$ $+5%$ $+2%$ $-1.6%$ $-3%$ $-6%$ $+8%$ $+3%$ $+0.2%$ $-1%$ $-6%$ $+6%$ $+4%$ $+0.4%$ $-6%$ $-7%$ $+9%$ $+4%$ $-1%$

Higher inflation and energy prices negatively affected construction activity and drove demand contraction in key ASEAN markets

Thai market

Overall cement demand increased +2% y-o-y. Infrastructure projects were the key driver of market growth while commercial projects gradually improved following recovering tourism industry and economic activities

References



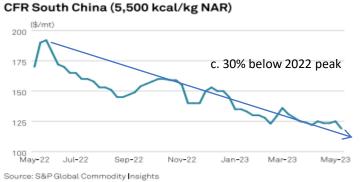


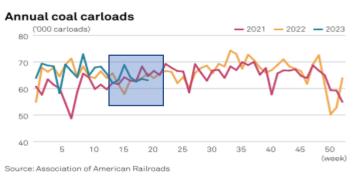
References (cont'd)



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Energy prices is trending down





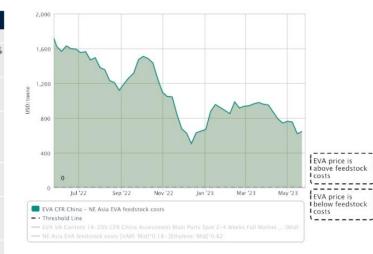


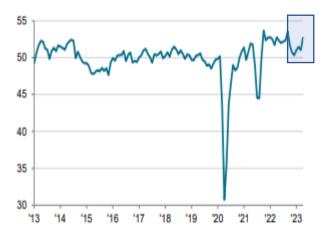
Source: S&P Global Commodity Insights

- Morgan Snook

Still soft trends in plastics but Global PMI for ASEAN manufacturing is improving

Downstream operation	Downstream operating rates are falling*									
China	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23			
footwear/foaming sector (VA content 14-20%)	10-20%	30-40%	70-80%	50-60%	40-50%	Around 40%	Around 30%			
hotmelt adhesives sector (VA content 22-30%)	70-80%	Above 80%	Above 80%	Above 90%	80-90%	90%	80-90%			
photovoltaic (PV) sector (VA content 28-33%)	40-50%	40-60%	50-80%	50-80%	60-70%	40-50%	40-50%			
India	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23			
Organised footwear/ foaming sector (VA content 14-20%)	90%	80-90%	100%	80-90%	85-90%	80-85%	70%			
Unorganised footwear/foaming sector (VA content 14-20%)	60-70%	60-70%	70-80%	70-80%	80%	60-70%	50-60%			
*Operating rate projection	ns were base	ed on market so	urces							





References (cont'd)





8.40 8.20 8.00

7.60 7.40 7.20

Mar

Q

7.80

7.00

6.89

6.80

×Cr



End of Presentation	
Q&A	
Thank You	