

Opportunity Day Q3/2024 22 November 2024

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The global recognized sustainable company



<u>The 1st company in</u> <u>Thailand</u> recognized in

LEAD LEVEL



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The only company in chemicals sector ranked 2019-2023: NO.1 for 5 consecutive years and Top 1% S&P Global ESG Scores

The 1st and only Thai-own conglomerate to achieve 2022-2023: A LIST Climate Change & Water Security

The top 5 % of companies assessed by EcoVadis awarded 2024: **Gold** Sustainability Medal



(ESG Rating BBB)



FTSE4Good (Top 3)



Top 4th percentile In Chemical Industry (Low Risk)



SET Sustainability Awards of Honor 7 consecutive years



SET ESG Ratings AAA Thailand Sustainability Investment 9 consecutive years



Strategic execution

Agenda

Financial highlights



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Market outlook







Strategic execution

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GC Evolution Journey





Olefins competitiveness differentiates GC





Unmatched position in feedstock competitiveness and flexibility



Portfolio transformation



Business restructure of prioritized companies

- Concluded pathway for business restructuring of identified companies
- Expected uplift to EBITDA of THB 2.6 bn and NI of THB 5.0 bn through discontinuing loss contribution from both companies from 2025 onwards

Note: Estimated normalized impact from without Vencorex and PTTAC based on annualized 9M/2024 figures



- 15 Nov: Approval of Business Withdrawal Process
- **Execution of stakeholder management program** to ensure the smooth transition and minimize the impact

PTTAC: Development Journey

sahi

Asahi KASEI

50%

Holding Structure: Partnership with AKC

6GC

50%

bptt

Petrochemical

Assets Injection

2017



Company Overview

- Acquired from PTT in 2017 to consolidate under Petrochemical Flagship
- Cost competitive position driven by Propane-based technology
- Capacity:
 - Acrylonitrile (AN) 200 KTA
 - Methyl Methacrylate (MMA) 85 KTA



	Growt Compet	ed Demano h with Cost titive Positic ergies with (t on —		 Engaged with JV partner & supplier long-term competitiveness Executed series of improvement initiatives 	on JV partner announced impairment in PTTAC	 Announced business restructuring consideration Concluded view on long term market recovery and cycle movement of AN & MMA Explored flexibility of production process for product optimization 	Decision on Business Withdrawal
2017				2021	2022	May 2024	Q2-Q3/2024	Q4/2024
	PTTAC EBI	ITDA 2017-2024	4		Significa	nt Adverse Im	pact from Change of Business Landscape	
		-			• AN demand decrea	ased impact to I	ow industry utilization rate (~70% expected through	า 2030)
		_	_		PTTAC's propane-be technology	ased technology	losing competitiveness to improving propylene-bo	ised
2017	2018 2019 2020	2021 202	22 2023	2024E	Improvement initiat	ives (starting sind	ce 2022) not sufficient to sustain long term business	viabilities

PTTAC: Process and Stakeholder Management





Restructuring Financial impacts



Q3/2024

Unit: MB	Q3/2024
Vencorex	
 Impairment on all Vencorex entities (Non-cash) Note: conservative numbers includes VCR FR and outside FR 	7,960
 Provisions Provide for costs related to site cleansing and exit costs 	614
PTTAC	
 Impairment equivalent to full book value of investment in PTTAC (Non-cash) 	8,937

Financial covenants:

• No impact to GC's financial covenants

Q4/2024

Vencorex

- Vencorex's performance is expected to be recognized until completion of the judicial reorganization process
- To fully book provision subject to outcome of judicial reorganization process

PTTAC

• **Provisions** related to PTTAC business withdrawal of **THB 3 bn** is expected to be booked in Q4/2024

2025

• Expected uplift to EBITDA of THB 2.6 bn and NI of THB 5.0 bn through

discontinuing loss contribution from both companies from 2025 onwards

Note: Estimated normalized impact from without Vencorex and PTTAC based on annualized 9M/2024 figures

Holistic Optimization to Reinforce Competitiveness



Build on existing foundation



2

Completed ORP/OMP Projects



Operational Excellence program



Digital transformation



Business process transformation

Holistic Optimization: Enhance end to end optimization

Improve Feedstock Security & Flexibility

Add Values & Solution for Domestic & Strategic Market

Strategic Market Customers

Adopt Technology to Enhance Supply Chain End to End Optimization

Enhance Efficiency & Performance and Roll out to allnex

- PTT Group collaboration
- Explore feedstock import from global sources
- Accelerate MFBT
- Products development for domestic & strategic markets
- Supply Planning Tool
- Plant-wide Optimization
- AI/Machine Learning
- Roll out OpEx and best practices to allnex
- Parallel HVB knowledge capture from allnex

EBITDA Uplift benefit to reinforce competitiveness

Holistic optimization 2030 Target

168 MUSD/year

Benefits from on-going programs MUSD/year

Complete downstream product portfolio offered to customers



56% Industrial Platform (vol)



*: After AVT's Expansion project completion

As a gas-based producer, we have higher portion of Ethylene chain products

Note: PVC: AVT (32.7% owned by GC) PP: HMC (41.4% owned by GC)

PET: TPRC (74% owned by GC) Polyols: GCP (82.1% owned by GC)

Market-Focused Business Transformation (MFBT)

- Sales portfolio optimization and market re-allocation to optimize margins
- Secure strategic market by enhancing competitiveness and customer experience through "Product & Service"
- Accelerate MFBT and application development to penetrate to new sub-segments and increase market share

Integrated PVC chain

AGC VINYTHAI (32.7% owned by GC)

- The only fully-integrated PVC chain producer in Thailand
- To be largest PVC producer in CLMVT with expansion project set to double AVT's PVC capacity to 850 KT in 2025

Strong partnership enables superior technology

- Lyondell Basell: PP (specialty grade)
- DynaChisso: PP compound
- Revolve Group: PE Rotomoulding

allnex Accelerate growth & Strengthen competitiveness



Muconic Acid Project MOU with Toray









Agenda

Strategic execution



Financial highlights

Market outlook

Earnings slightly declined from lower margins of Intermediates, but partly offset by **6GC** Aromatics improvement. Impairments of PTTAC and VCR recognized in Q3/24.





Note: * Adjusted EBITDA refers to EBITDA excluding Stock gain/(loss),NRV, Gain/(loss) from commodity hedging, and Extra item



Consolidated Statement of Income – Q3/24

	Unit : MB	Q3/2023 ¹	Q2/2024	Q3/2024	YoY % + /(-)	QoQ % + /(-)	9M/2023 ¹	9M/2024	YoY % + /(-)	
1	Sales Revenue	160,392	167,054	149,431	-7%	-11%	454,37	471,672	4%	
2	Feedstock cost	(121,632)	(130,669)	(114,590)	6%	12%	(344,225	(363,178)	-6%	
3	Product to Feed Margin	38,760	36,385	34,841	-10%	-4%	110,146	6 108,494	-1%	(A)
4	Variable Cost	(13,606)	(12,753)	(12,816)	6%	0%	(42,969	(37,978)	12%	(B)
5	Fixed OH	(8,408)	(8,286)	(7,927)	6%	4%	(24,012	(24,548)	-2%	(C)
6	Stock Gain/(Loss) and NRV	3,674	154	(3,912)	<-200%	<-200%	(343	(3,398)	<-200%	(-)
7	Gain/(Loss) on Commodity Hedging	(2,729)	826	280	110%	-66%	(1,458) 1,213	183%	
8	Other Revenue	2,434	4,816	1,492	-39%	-69%	6,090	7,712	27%	(D)
9	SG&A Expenses	(6,372)	(7,357)	(7,203)	-13%	2%	(19,589) (21,526)	-10%	(C)
10	EBITDA	13,753	13,785	4,755	-65%	-66%	27,864	29,969	8%	
11	Depreciation & Amortization	(7,225)	(8,146)	(7,598)	-5%	7%	(20,972	(23,023)	-10%	(E)
12	Extra items	(625)	-	-	100%	0%	(633) -	100%	
13	EBIT	5,903	5,639	(2,843)	-148%	-150%	6,259	6,946	11%	
14	Net financial expense	(2,714)	(2,815)	(2,814)	-4%	0%	(8,025) (8,182)	-2%	(F)
15	FX Gain(Loss)	(1,146)	52	2,941	>200%	>200%	(1,497	1,416	195%	
16	Share of gain/(loss) from investment	(179)	(135)	(279)	-56%	-107%	(735	(737)	0%	
17	Corporate Income Tax	(467)	(903)	1,000	>200%	>200%	(153) (195)	-27%	
18	Net Profit/(Loss) after Tax	1,397	1,838	(1,995)	<-200%	<-200%	(4,151) (752)	82%	
10	(exclude impairment/restructuring cost)	1,397	1,030	(1,995)	<-200 <i>%</i>	<-200 <i>%</i>	(4,151) (152)	0270	
	Net Profit/(loss) attributable to:									
19	Non-controlling interests	(30)	(8)	(194)	<-200%	<-200%	-69	-191	-177%	
00	Net Profit/(Loss) after Tax	4 407	1 0 1 0	(1.001)		1000	(4.000	(504)	0000	
20	(exclude impairment/restructuring cost)	1,427	1,846	(1,801)	<-200%	-198%	(4,082) (561)	86%	
21	Loss from impairment of assets (Vencorex)	-	-	(7,960)	100%	100%		(7,960)	100%	
22	Provision for business restructuring (Vencorex)	-	-	(614)	100%	100%		(614)	100%	
22	Share of loss from JV from impairment of assets of PTTAC	-	-	(8,937)	100%	100%		(8,937)	100%	
23	Net Profit/(Loss) after Tax to Owners of the Company (include impairment/resturcuring cost)	1,427	1,846	(19,312)	<-200%	<-200%	(4,082) (18,072)	<-200%	
24	Adjusted EBITDA ²	12,231	9,662	8,387	-31%	-13%	28,204	29,103	3%	

- 1) Starting 2024, there was a reclassification of natural gas expenses, which are fuel costs in the refinery business segment and the aromatics business segment, from feedstock costs to variable costs. This led to a retrospective adjustment of the aforementioned items for comparative analysis purposes, without impacting other items and net profit as reported by the company.
- 2) Adjusted EBITDA refers to EBITDA excluding Stock gain/(loss),NRV, Gain/(loss) from commodity hedging, and Extra item. and Adjusted EBITDA in 2023 was retroactively adjusted by excluding gain from bond buy-back in 2023



Negative Positive impact to P/L



YoY highlights (Q3/24 VS Q3/23)

(A) P2F

lower performance of Refinery effected by the lower GRM and lower POL spread (B) + VC : Align with the lower olefins utilization rate and the decrease in utilities price of allnex (C) C FOH&SGA Higher selling expense from phenol business following the increase

in sales volume and higher freight cost

(D) Other Revenue

Insurance claim from GCL incident of 500 MB recorded in Q3/23

(F) A Net Financial Expense increased due to the higher interest rate in the market, partly offset with lower interest payment from bond

QoQ highlights (Q3/24 VS Q2/24)

(A) P2F

Lower performance of Intermediates and allnex, party offset with higher aromatics performance

FOH&SGA (C) 🔂

mainly decrease from OPEX reduction program

(D) Contraction (D) Contractio (D) Contraction (D) Contraction (D) Contraction (D) Contraction

One-time bond buy back gain recorded in Q2/24 of 2,895 MB

(E)
 Depreciation decreased due to the accelerated depreciation related to allnex footprint optimization in Q2/24

Strong Financial Position



Statements of Financial Position







Long Term Debt Portfolio

Note: *Adjusted EBITDA refers to EBITDA excluding Stock gain/(loss), NRV, gain/(loss) from commodity hedging and Extra item i.e. gain from bond buyback

Capex to support GC's sustainable growth



GC Group (Consolidated entities)

	Total	Estimated Annual CAPEX (M.USD)					
CAPEX of PTTGC group	2025-2029	2025	2026	2027	2028	2029	
1) PTTGC group excluding allnex	183	163	20	-	-	-	
2) allnex expansion & growth Capex	657	126	141	160	138	92	
total	840	288	161	160	138	92	

Notes:

allnex

1. Group annual maintenance ~ 400 M.USD (including allnex) and are excluded from the table

2. PTTGC group projects such as IT & digital, new office facility, upgrade/modify production unit etc

allnex expansion & growth Capex based on capex plan, including committed and uncommitted projects. Source of fund will be from allnex.
 FX assumption for USD/EURO is 1.12 for allnex CAPEX plan

Financial activities towards sustaining balance sheet





THB Perpetual bonds issuance



- GC appointed 12 JLAs for issuance of THB perpetual bonds
- **Equity credit:** Fitch confirmed 50% equity credit from proposed issuance. GC also expects equity credit from Moody's & S&P.
- 1st issuance of perpetual bonds by PTT group companies in 10 years
- Currently in issuance progress

Multiple initiatives for sustaining balance sheet

- Non-core assets divestments: Continue progress on divestments on non-core assets
- Opex / Capex discipline





Agenda

Strategic execution

Financial highlights



Market outlook

Geopolitical tensions, Fed rate cuts, the upcoming winter could boost oil prices in late 2024.
 Increased production from non-OPEC will lead to a longer oil supply.





- Global economic concerns pressure aromatics chain demand and margins
- Producers control supply by production cut to secure margins



• Additional capacity remains a key pressure factor for olefins chains.

• Potential China's stimulus packages could bolster demand.



Macro Trend: Q4/2024 Gloomy Economic Outlook Amid Rising Risks and Geopolitical Tensions

 1. War: (i) Russia-Ukraine: Biden may expedite pending aid for Ukraine before leaving office. (ii) Israel-Hamas conflict: Trump's second term could intensify the conflict. 2. US-China "competition without conflict: Prioritizing economic recovery amid ongoing tech/EV competition. 3. Global election super cycle: leaning to the right in the EU (from France and UK). National Red Shift in the U.S. 4. World Bank forecasts 2024 growth to slow for third consecutive year: slow growth in US and China; modest recovery in EU 2024 Outlook 					Risks: - Supply chain and industry s changes - Freight cost - Regulatory a uncertainty, in climate policy	trategy nd policy ncluding		 U.: de cui E.U ecc exi Ch wit po 	 024 Economic Outlook S.: Growth outlook upgraded, but ebt dynamics remain unstable under urrent fiscal policies. U.: Growth downgrades in major conomies due to a slower-than- kpected recovery. hina: Deepening growth slowdown, ith an increase in protectionist oblicies impacting trade. 2025 To watch: Gaza War: Increased tensions anticipated Ukraine: U.S. support for NATO/Ukraine U.S.: Debt ceiling suspension ends in Jan; polic shift under Trump 2.0: tax cuts, tariffs, sanctio climate regulations. E.U.: Strategic direction expected after finalizin the EU commissioner; key election in Germany. China: Release of the 15th Five-Year Plan for 2026–2030 expected. 024 	ng				
	vary, PMIs sho			1	End Market)24 vs Q3/							
(real GDP, annual	2024	2024	2024	1	(Exposure)	EMEA	AMER	APAC	Q4/2024 outlook Megative Stable Positiv					
percentage)	As of Apr	As of Jul	As of Oct	1	Auto &				Continued soft demand in all regions in Q4 2024. However, it's expected a demand pickup in China	a				
World Output United States	3.2 2.7	3.2 2.6	3.2		Mobility (~28%)				starting from Q1 2025 supported by the incentive of scrappage policy leads to additional demand of passenger car.					
Europe	1.1	0.9	0.8	 										
China	4.6	5.0	4.8	1	Industrial				 Continued strong demand in APAC both in Industrial metal and Coil & Precoated metal supported b on-going supply chain disruption in Red Sea and new property rescue plan from Government, 	у				
India	6.8	7.0	7.0	IK	goods (~25%)				respectively. Soft demand in EMEA and AMER explained by economic and industrial construction					
Source: IMF Jan 2024, Apr 2024,	July 2024				(,				slowdown.	-				
				 _	Packaging (~27%)				Overall packaging demand continue strong compared to other end markets.					
Manufacturing PMI	Aug 2024	Sep 2024	Oct 2024		(*2170)									
Global	49.5	48.8	49.4		Construction				On going concern of economic slowdown pressures the construction activities in all regions.					
United States Europe	47.9 45.8	47.3 45.0	48.5 1 46.0 1	1	& Decoration (~20%)				However, it's expected to see the improving demand starting next year fueled by China's stimulus					
China	50.4	49.3	50.3		(~20 /0)				package and rate cut by Fed in November.					
India	57.5	56.5	57.5		<u> </u>									
Source: S&P Global									Confidential					

2025 Outlook





2025 key factors:

- Refinery operation: Savings on ship-to-ship costs
- Ethane feedstock: Increased ethane flow
- Portfolio transformation:
 - Discontinue loss contribution from Vecnorex and PTTAC
 - Conclude Vencorex assets sales
- Opex/Capex control to enhance liquidity and EBITDA

Utilization rate



Projects to start up in 2025



NatureWorks

Natureworks Plant 2 COD: Q3/2025

AGC VINYTHAI

AGC Vinythai Expansion Plant COD: Q2/2025 Ethylene vol from GC: 50KT in 2025 and 190 KT in 2026 onwards



Bio-refinery SAF COD: Q1/2025



Dow Jones Sustainability Indice

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Appendix

Contribution by market chains



Market Prices/Spread (\$/ton)



		Q2/24	Q3/24
Refinery	GRM (\$/bbl)	3.2	3.5
		244	004
	PX Spread	344	294
Aromatics Chain	BZ Spread	354	336
	Phenol Spread	296	285
	PTA Spread	76	80
	HDPE	1,052	995
Olefin Chain	HDPE-Naphtha	364	323
	MEG Spread	3	35

Operating Performance analysis - Upstream

Diesel, LSFO, PX, BZ, Ethylene, Propylene





Sales volume

Unit : Mbbl & Kton



Key products/spread	Q3/23	Q2/24	Q3/24		
Dubai (\$/bbl)	86.7	85.3	78.3		
Diesel - Dubai (\$/bbl)	28.8	14.8*	13.6*		
(500 ppm in 2023 and 10 ppm in 2024)					
LSFO-Dubai (\$/bbl)	8.9	9.9	13.6		
Crude premium (\$/bbl)	6	7	7		
Market GRM (\$/bbl)	12.6	3.2	3.5		
PX spread (\$/ton)	357	344	294		
BZ spread (\$/ton)	183	354	336		
BTX P2F (\$/ton)**	217	219	241		
Naphtha (\$/ton)	648	688	672		
Ethylene price (\$/ton)	822	980	962		
Propylene price (\$/ton)	822	823	875		
Hedging gain/(loss) (mb)	(2,729)	826	280		
Stock gain/(loss) net NRV (mb)	3,793	274	(3,635)		

*Referred to Diesel 10 ppm since 2024,EURO5 has been stipulated in Thailand

**There was a reclassification of natural gas expenses, which are fuel costs in the refinery business segment and the aromatics business segment, from feedstock costs to variable costs. This led to a retrospective adjustment of BTX P2F for comparative analysis purposes, but it did not affect the Market GRM and Adjusted EBITDA as reported by the company.

Market highlights QoQ:

- The key refined products spread is primarily impacted by oversupply and global economic downturns. The Gasoil spread declined due to higher export from India, Taiwan and South Korea as Monsoon season.
 LSFO spread increased due to lower export from China and Middle East.
- The PX spread decreased due to economics concern and sluggish in downstream market. Also, the BZ spread decreased as the slow demand recovery. However, the increase in Aromatics performance is due to a higher by-product spread.
- Lower Ethylene spread following the softened in crude oil and naphtha price ,while Propylene spread went up due to the tight supply in SEA.

Operating Performance analysis - Intermediates



Intermediates

Adjusted EBITDA & equity incomes

Unit : MB



Key products/spread	Q3/23	Q2/24	Q3/24
PHN spread (\$/ton)	295	296	285
BPA spread (\$/ton)	200	188	200
MEG ASP spread (\$/ton)	38	3	35
PTA spread (\$/ton)	72	76	79
PO spread (\$/ton)	162	182	140
AN spread (\$/ton)	348	473	321
MMA spread (\$/ton)	928	1,374	1,531

Phenol spread = Phenol-0.878 BZ-0.474 Propylene+0.616 Acetone BPA spread = BPA-0.853 Phenol-0.273 Acetone MEG spread = MEG ASP - 0.5285Ethylene PTA spread = PTA-0.67PX PO spread = PO-Propylene AN spread = AN-Propylene MMA spread = MMA- Naphtha

Market highlights QoQ:

Rising in Propylene price led to the weak performance of Propylene chain business

- Lower Phenol spread mainly attributed by higher feedstock cost of Propylene amid the subdued demand , partly offset with higher sales volume of Phenol, after the T/A in Q2/2024
- Significant drop in Propylene Oxide performance following the rise in feedstock cost
- Higher MEG spread resulting from the decrease in feedstock cost of Ethylene price
- AN spread decreased following the increase in feedstock (Propylene)

Note: excludes sales volume of JV's companies



Polymers & Chemicals





Key products/spread Q3/23 Q2/24 Q3/24 PE price (\$/ton) 1,005 1,103 1,084 HDPE-Ethylene (\$/ton) 210 71 33 PP price (\$/ton) 969 1.055 1.017 PET price (\$/ton) 905 873 893 Polyols price (\$/ton) 1,315 1,277 1,323

Market highlights QoQ:

- PE price decreased due to the ample supply in the quarter amid the weak demand in Asia
- Higher PE price premium compared with the downward trend in the market
- New supply of PE in Vietnam, Interest rate hike, and economic recession concerns still put the pressure on Polymers demand and price.

Operating Performance analysis – Bio & Circularity

Dleochemicals, Bioplastics, Recycle Resins



Key products/spread	Q3/23	Q2/24	Q3/24
ME spread (THB/kg)	4.3	4.3	4.3
FA spread (\$/ton)	358	277	365

FA spread = FA - 1.2(CPKO)

Market highlights:

- The slowdown in demand for Methyl Ester (ME) is driven by Thailand's monsoon season, which has led to reduced logistics and transportation activities. However, the government has extended the Oil Fuel Fund Act B.E. 2562 (2019) for another two years to support biofuel prices and maintain the high-speed diesel price at 33 Baht per liter. Moreover, the Fuel Fund Executive Committee (OFFEC) has decided to collect contributions from diesel consumers to help reduce the fund's accumulated losses.
- The Fatty Alcohol (FA) P2F increased in Q3/2024 as buyers restocked in response to tight supply caused by shutdowns of major producers in Indonesia, China, and Thailand, as well as the closure of a short-chain fatty alcohol producer in Malaysia. Additionally, logistical concerns emerged due to rising freight rates.

Note: JV companies include EOUK, NatureWorks, PTTMCC, TEX, GKBI

Performance Chemicals





Key products/spread	Q3/23	Q2/24	Q3/24
Adj.EBITDA margin (%)	8%	10%	8%

Market highlights:

EBITDA contributed from Performance Chemicals decreased QoQ

- Vencorex : Continue of low HDI derivatives sales volume impacted by weak global demand.
- Allnex : Sales Volumes were 5% down in Q3/2024 compared to Q2/2024 largely driven by the business seasonality in EMEA (weak August due to summer shutdown period) and the reduced volumes linked to the overall market decline, while the sales volume in AMER and APAC remained flat.

allnex performance	Q3/23	Q2/24	Q3/24
Adj.EBITDA (MEUR)	68	81	69
Adj.EBITDA margin	12%	14%	12%
Sales Vol. (Kton)	193	204	195

Note Adj.EBITDA reported by allnex (adjusted for non-recurring items)

| ^ @ 🚗 🏣 높 💂 🏭 4 竹 Industrial Coatings



Revenue Development



Revenue breakdown by segment

End-segment	Q3-/23	Q2/24	Q3/24
Industrial Metal	17%	17%	17%
Infrastructure & Construction	31%	31%	31%
Mobility & Transportation	29%	27%	28%
Packaging & Consumer Goods	23%	25%	24%

Performance summary

allnex performance	Q3/23	Q2/24	Q3/24
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- **Opex/Capex control to enhance liquidity and EBITDA**

Utilization rate



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MatureWorks MatureWorks

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AGC VINYTHAI

AGC Vinythai Expansion Plant COD: Q2/2025 Ethylene vol from GC: 50KT in 2025 and 190 KT in 2026 onwards



Bio-refinery SAF COD: Q1/2025

Maintenance Shutdown Schedule 2025





Upstream - Refinery



Crude Condenstate Residue





			G	ross Refin	ery Margi	n			
\$/BBL	Q1/23	Q2/23	Q3/23	Q4/23	Q1/24	Q2/24	Q3/24	9M/23	
Market GRM	10.3	5.7	12.6	9.0	8.3	3.2	3.5	9.6	
Stock Gain (Loss) net NRV	(2.6)	(2.8)	3.6	(3.3)	(0.07)	0.4	(4.6)	(0.5)	
Hedging Gain (Loss)	1.3	0.9	(4.2)	1.2	0.2	1.3	.0.5	(0.7)	
Accounting GRM	9.0	3.8	12.1	6.9	8.5	5.0	(0.7)	8.3	

Upstream - Aromatics



			Arc	omatics	BTX P2F				
\$/ton	Q1/23	Q2/23	Q3/23	Q4/23	Q1/24	Q2/24	Q3/24	9M/23	9M/24
BTX P2F	321	243	217	253	311	220	241	261	257
Stock Gain (Loss) net NRV	(19)	(32)	96	(30)	16	3	(38)	12	(7)
Hedging Gain (Loss)	14	(9)	(18)	7	(2)	(1)	-	(4)	(1)
Accounting P2F	316	202	295	230	325	222	202	269	247



Upstream - Olefins







Intermediates



Polymers & Chemicals

	Polym	ers &	Chem	nicals	Sales	Volume	(KTons)	
535	574	632	590	612	586	567	1,741	1,765
12%	11%			100/	4.00/		100/	
3%	2%	14% 2%	15% 2%	13% 3%	13% 2%	15% 3%	12% 3%	14% 3%
15%	15%	14%	12%	14%	15%	13%	15%	14%
29%	30%	30%	34%	29%	29%	28%	30%	29%
41%	42%	40%	37%	41%	40%	41%	41%	40%
Q1/23	Q2/23	Q3/23	Q4/23	Q1/24	Q2/24	Q3/24	9M/23	9M/24
Q 1/20	QZ/20	HDPI		DPE	LDPE)thers	JIVI/24

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Utilization rate

	04/00	00/00	00/00	04/00	01/04	00/04	00/04	014/00	
Utilization rate	Q1/23	Q2/23	Q3/23	Q4/23	Q1/24	Q2/24	Q3/24	9M'23	9M'24
Upstream									
- Refinery	103%	103%	105%	106%	104%	105%	104%	104%	104%
- Aromatics	89%	90%	69%	83%	83%	89%	90%	83%	87%
- Olefins	72%	81%	89%	78%	83%	84%	79%	81%	82%
Intermediates									
- MEG	13%	4%	90%	78%	46%	78%	92%	36%	72%
- Phenol	104%	98%	102%	91%	108%	107%	111%	102%	109%
- BPA	98%	103%	103%	95%	118%	79%	120%	102%	106%
- PO	26%	46%	106%	61%	50%	90%	76%	60%	72%
Polymers & Chemicals									
HDPE	106%	110%	110%	97%	115%	111%	98%	109%	108%
LLDPE	93%	93%	105%	98%	103%	85%	89%	97%	92%
LDPE	96%	119%	115%	93%	111%	117%	114%	110%	114%
Total PE	99%	104%	109%	97%	109%	101%	97%	104%	102%



Market Prices



Product	Unit	Y. 2022 [Actual]	Y. 2023 [Actual]	Y. 2024 [Forecast]	Change Y. 24 - 23	Y. 2025 [Forecast]
Crude : Dubai	\$/bbl	96.3	82.1	78 - 82	+	75 - 79
Petroleum Product :						
 Diesel 10 PPM - Dubai 	\$/bbl	39	24.3	15 - 19	•	16 - 20
VLSFO - Dubai	\$/bbl	22.5	11.5	11 - 14	•	10 - 13
Aromatics Chain :						
PX – Naphtha	\$/Ton	319	389	290 - 310	•	320 - 340
PTA Margin	\$/Ton	106	85	80 - 90	-	90 - 100
PET Margin	\$/Ton	175	89	70 - 80	+	70 - 80
BZ – Naphtha	\$/Ton	244	248	300 - 320	•	280 - 300
Phenol Margin	\$/Ton	357	252	240 - 260	+	250 - 270
Olefins Chain :						
• HDPE	\$/Ton	1203	1044	1010 - 1040	+	1030 -1060
HDPE – Naphtha	\$/Ton	418	394	330 - 360	+	390 - 420

	Highlight Y. 24
} \ \	 Geopolitics Tension [+] China Economic concern [-]
}	 New Refinery [-] Limited GO/Jet Arbitrage to West [-] Low China LSFO quota[+]
	 Gasoline cost push [+]
	 Control supply [+]
	 New Capacity [-]
	Slow economic growth [-]