

18 January 2024

Energy & Petrochemicals | Oil & Gas Services

Wasco (WSC MK)

Buy

Bright Prospects And Robust Pipelines

Target Price (Return):	MYR1.43 (+42%)
Price (Market Cap):	MYR1.01 (USD166m)
ESG score:	2.8 (out of 4)
Avg Daily Turnover (MYR/USD)	0.66m/0.14m

Analyst

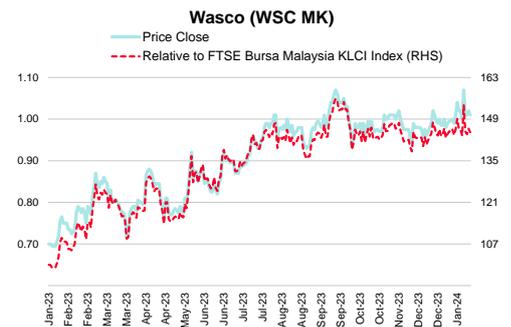
Sean Lim, CFA
+603 9280 8867
sean.lim@rhbgroup.com



- **Initiate coverage with BUY, MYR1.43 TP based on 11x FY24F P/E (the 5-year mean) and includes a 4% ESG discount, 42% upside.** We like Wasco for its near-term earnings potential, led by a strong orderbook and tenderbook – these are on the back of strong FPSO demand and its gas projects. In the longer run, we believe Wasco should be able to ride on the opportunities arising from the global energy transition wave, capitalising on its EPC and pipe-coating capabilities amidst sustainable growth within its bioenergy arm.
- **Solid orderbook and bright prospects.** As of 3Q23, Wasco's orderbook is valued at MYR3.6bn, of which MYR3.3bn (92%) is related to energy services, followed by bioenergy services (8%). Its tenderbook is currently worth c.RM7bn, of which the bulk is accounted for by the oil and gas (O&G) unit (both pipe-coating and engineering works) – with jobs from the Middle East, Australia, Africa and Malaysia. Wasco targets to continue its strong replenishment rate in 2H24. Hence, we believe it will be able to maintain its orderbook value at more than MYR3bn by end-2024.
- **Opportunities in energy transition.** Wasco has been securing more energy transition-related jobs, and its track record is essential for the company to clinch more relevant projects in the growing renewable energy (RE) and clean energy industries. Although energy transition-related jobs account for only 6% of its existing MYR3.3bn outstanding energy services orderbook, we expect this percentage to increase over the years. It also secured its maiden line pipe coatings contract for a carbon capture and storage (CSS) project worth USD13m at the Port of Rotterdam for Nederlandse Gasunie. According to management, there are approximately 5,000km of pipelines for CCS projects planned between 2024 and 2027, translating to an estimated USD1bn worth of potential pipe-coating job opportunities, including domestic works (ie Kasawari and Lang Lebah).
- **Steady growth from the bioenergy arm,** which contributed 10% of 9M23 topline, is expected to provide a growing, yet stable and recurring earnings stream as there are more new turbine installations enlarging the operations & maintenance (O&M) customer base. Long-term growth will be further anchored by the National Energy Transition Roadmap (NETR) rollout last year. Malaysia targets to increase its bio-refinery capacity to 3.5bn litres, and raise biomass and biogas power generation capacity to 1.4GW by 2050.
- **Decent earnings growth.** We expect Wasco to register 4-40% YoY earnings growth in FY23-25 – led by higher billings from existing contracts, with the possibility of better contributions from its JVs and associate firms, while higher O&G upstream activities should lead to better maintenance jobs and higher vessel demand. Downside risks: i) Decline in work orders from clients, ii) softer oil prices limiting clients' spending, and iii) higher operating costs.

Share Performance (%)

	YTD	1m	3m	6m	12m
Absolute	1.5	(1.0)	2.0	6.9	46.4
Relative	(1.0)	(3.0)	(1.3)	0.8	47.0
52-wk Price low/high (MYR)					0.70 – 1.07



Source: Bloomberg

Overall ESG Score: 2.8 (out of 4)

E: MODERATE

As a leading service provider, Wasco is committed in reducing its emissions impact in line with its climate transition strategy. Some of the group's initiatives include the tree planting programme where it completed in 2022, as well as its subscription to the Green Electricity Tariff (GET) programme. In 2022, the group's total GHG emissions nearly doubled to 25,224 tCO₂e due to expanded reporting from all WSC entities, compared to previous tracking of only the Energy Solution Services division.

S: GOOD

WSC prioritizes a safe and healthy workplace for employees, contractors and other stakeholders with stringent health and safety standards in place to help prevent hazards and incidents. As a result, the group reported no Lost Time Incidents (LTIs) or health & safety incidents that have led to fatalities in 2022. In terms of corporate social responsibility, WSC's Foundation, Yayasan Wah Seong, offers scholarships for full time first degree courses in Malaysian public universities. In 2022, Yayasan Wah Seong helped 5 scholars.

G: EXCELLENT

Board characteristics are in line with Bursa Malaysia and MCGG requirements, with independence of the board

Note:

Small cap stocks are defined as companies with a market capitalisation of less than USD0.5bn.

Forecasts and Valuation	Dec-21	Dec-22	Dec-23F	Dec-24F	Dec-25F
Total turnover (MYRm)	1,429	2,687	2,862	3,153	3,187
Recurring net profit (MYRm)	(81)	61	75	105	109
Recurring net profit growth (%)	(72.6)	-	22.8	40.3	4.0
Recurring P/E (x)	na	12.82	10.44	7.44	7.16
P/B (x)	1.3	1.3	1.2	1.0	0.9
P/CF (x)	3.55	4.70	4.75	4.50	3.89
Dividend Yield (%)	na	na	na	na	na
EV/EBITDA (x)	11.29	4.30	4.06	3.33	2.92
Return on average equity (%)	(16.6)	(1.1)	12.1	14.8	13.4
Net debt to equity (%)	80.3	67.9	45.9	26.9	9.8

Source: Company data, RHB

See important disclosures at the end of this report

Market Dateline / PP 19489/05/2019 (035080)

18 January 2024

Energy & Petrochemicals | Oil & Gas Services

Financial Exhibits

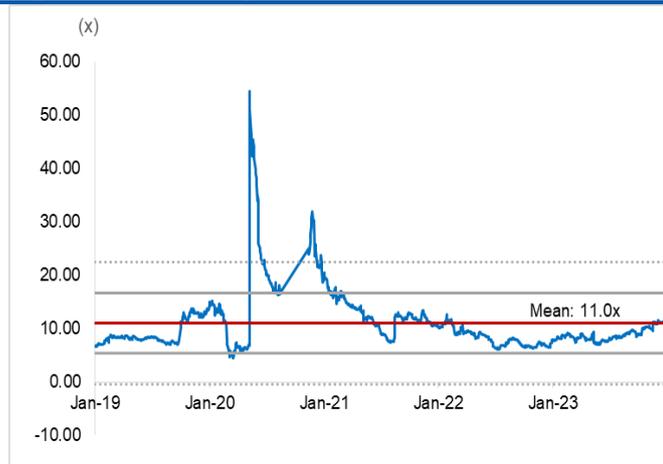
Asia	Financial summary (MYR)	Dec-21	Dec-22	Dec-23F	Dec-24F	Dec-25F
Malaysia	Recurring EPS	(0.10)	0.08	0.10	0.14	0.14
Energy & Petrochemicals	BVPS	0.76	0.75	0.85	0.98	1.12
Wasco	Return on average equity (%)	(16.6)	(1.1)	12.1	14.8	13.4
WSC MK						
Buy						
	Valuation metrics	Dec-21	Dec-22	Dec-23F	Dec-24F	Dec-25F
	Recurring P/E (x)	na	12.82	10.44	7.44	7.16
	P/B (x)	1.3	1.3	1.2	1.0	0.9
	FCF Yield (%)	15.9	16.6	13.4	14.6	18.0
	EV/EBITDA (x)	11.29	4.30	4.06	3.33	2.92
	EV/EBIT (x)	39.01	5.87	5.85	4.52	3.92
	Income statement (MYRm)	Dec-21	Dec-22	Dec-23F	Dec-24F	Dec-25F
	Total turnover	1,429	2,687	2,862	3,153	3,187
	Gross profit	169	412	429	489	494
	EBITDA	93	271	267	298	297
	Depreciation and amortisation	(66)	(73)	(82)	(78)	(76)
	Operating profit	27	199	185	219	222
	Net interest	(36)	(45)	(56)	(54)	(53)
	Pre-tax profit	(100)	82	140	175	181
	Taxation	(12)	(39)	(42)	(51)	(53)
	Reported net profit	(107)	(6)	75	105	109
	Recurring net profit	(81)	61	75	105	109
	Cash flow (MYRm)	Dec-21	Dec-22	Dec-23F	Dec-24F	Dec-25F
	Change in working capital	181	(65)	(15)	(29)	(3)
	Cash flow from operations	220	166	165	174	201
	Capex	(96)	(37)	(60)	(60)	(60)
	Cash flow from investing activities	(82)	(11)	(60)	(60)	(60)
	Cash flow from financing activities	(167)	(18)	3	(20)	(20)
	Cash at beginning of period	156	136	276	384	478
	Net change in cash	(29)	137	108	94	121
	Ending balance cash	128	274	384	478	599
	Balance sheet (MYRm)	Dec-21	Dec-22	Dec-23F	Dec-24F	Dec-25F
	Total cash and equivalents	242	329	437	531	652
	Tangible fixed assets	698	773	751	733	717
	Total investments	290	175	175	175	175
	Total assets	2,231	2,713	2,851	3,010	3,125
	Short-term debt	649	708	711	693	675
	Total long-term debt	105	82	82	80	78
	Total liabilities	1,593	2,035	2,075	2,109	2,096
	Total equity	638	679	777	901	1,030
	Total liabilities & equity	2,231	2,713	2,851	3,010	3,125
	Key metrics	Dec-21	Dec-22	Dec-23F	Dec-24F	Dec-25F
	Revenue growth (%)	1.4	88.0	6.5	10.1	1.1
	Recurrent EPS growth (%)	(72.6)	0.0	22.8	40.3	4.0
	Gross margin (%)	11.8	15.3	15.0	15.5	15.5
	Operating EBITDA margin (%)	6.5	10.1	9.3	9.4	9.3
	Net profit margin (%)	(7.5)	(0.2)	2.6	3.3	3.4
	Capex/sales (%)	6.7	1.4	2.1	1.9	1.9
	Interest cover (x)	0.75	4.38	3.34	4.05	4.21

Source: Company data, RHB

Valuation And Recommendation

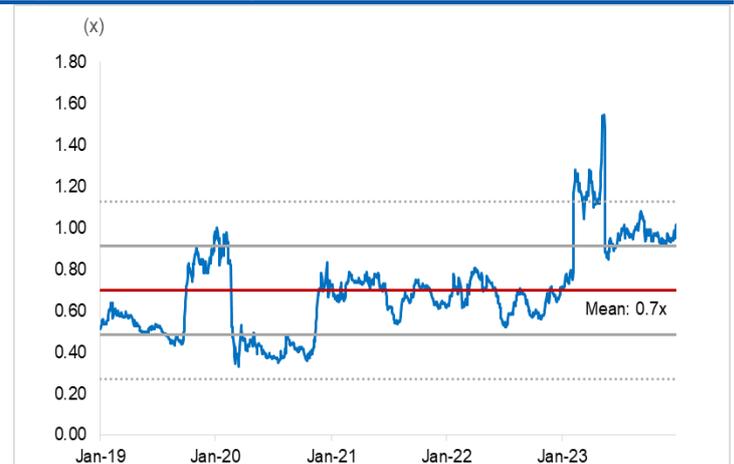
Initiate coverage with a BUY rating. Our intrinsic value of MYR1.43 for this stock is based on an ascribed 11x P/E on the company's 2024F earnings. Our ascribed valuation is in line with its 5-year mean of 11x. We like Wasco for its near-term earnings potential, led by a strong orderbook and tenderbook, on the back of strong FPSO demand and gas development projects. We also see the possibility of better contributions from its JVs and associates – stemming from higher O&G upstream activities, which should lead to an increase in maintenance works and higher demand for vessels. In the longer run, we believe Wasco should be able to ride on the opportunities arising from the global energy transition by capitalising on its EPC and pipe-coating capabilities. Our TP implies a FY24 P/BV of 1.5x, at +2SD from the 5-year mean. Note that we have also incorporated a 4% ESG discount on our intrinsic value to derive our TP, based on our ESG score of 2.8.

Figure 1: Wasco's 5-year P/E band



Source: RHB, Bloomberg

Figure 2: Wasco's 5-year P/BV band



Source: RHB, Bloomberg

Key Risks

Key downside risks for the company include:

- i. Lower-than-expected work orders from clients;
- ii. Significantly softer-than-expected oil prices, which could limit clients' spending;
- iii. Operating costs increasing more than expected.

Investment Thesis

Experienced O&G services player

Established in 1999, Wasco – previously known as Wah Seong Corporation – is an international O&G and industrial services provider with a footprint in 17 countries worldwide. The company has two main business pillars – O&G and industrial services. The O&G arm offers pipe-coating, corrosion protection services, EPC, fabrication and rental of gas compressors and process equipment, as well as various E&P products and services. The industrial services division supplies process equipment in Asia to different sectors, ie plantation, oleo-chemical, petrochemical, and utilities industries while distributing infrastructure and building materials in Malaysia.

The company recently reclassified its business segments. The RE segment is now reclassified as bioenergy services – and is mainly involved in agro-based industries. The industrial engineering arm – which provides process equipment engineering, fabrication works, and steam solutions within the RE segment – is now lumped into energy services, which encapsulates pipe coating and other engineering & construction (E&C) jobs. Post reclassification, the energy division accounted for 76% of total revenue in 9M23, followed by the trading (14%) and bioenergy services divisions (10%).

Figure 3: Wasco's pipe-coating track record

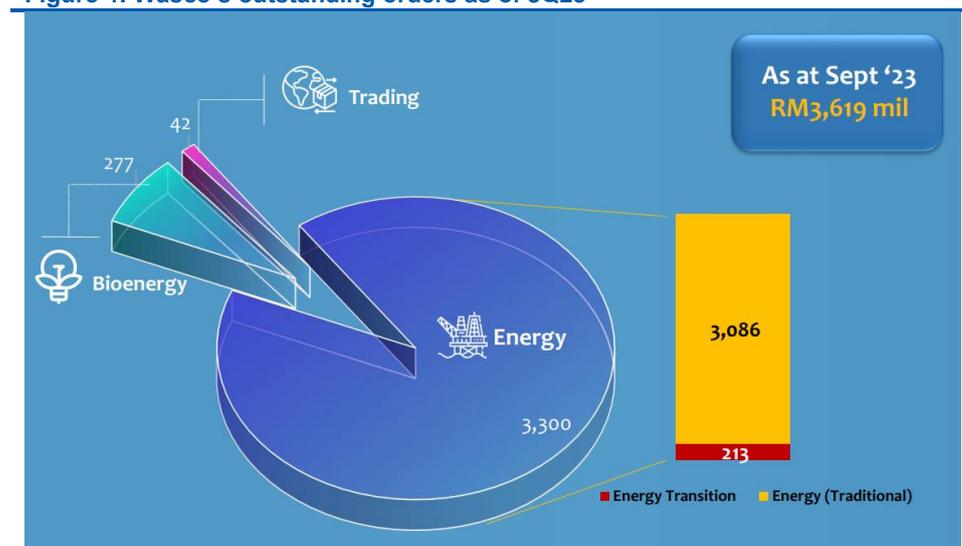
JDA Gas Pipeline EVA NMB	Equinor Polarled	Nord Stream II	Johan Svedrup	Kasawari Gas Development	Barossa Gas Export Pipeline (Allseas)
PROJECT VALUE USD 59 mil PROJECT PERIOD 2014 PROJECT SCOPE 24" & 28" x 265km AE, CWC, Anodes Supply & Installation	PROJECT VALUE USD 189 mil PROJECT PERIOD 2015 PROJECT SCOPE 492km x 36" 3LPE, 3LPP, IFC, CWC, Marine Shipment, Logistics, Anode Supply and Installation	PROJECT VALUE USD 792 mil PROJECT PERIOD 2016- 2020 PROJECT SCOPE Pipe Coating	PROJECT VALUE USD 63 mil PROJECT PERIOD 2019 PROJECT SCOPE AE, 3LPP, CWC, Anode Supply and Installation, Marine Shipment	PROJECT VALUE USD 11 mil PROJECT PERIOD 2022 PROJECT SCOPE Asphalt Enamel, Concrete Weight Coatings & Supply, Installation of Anodes	PROJECT VALUE USD 26 mil PROJECT PERIOD 2022 PROJECT SCOPE IFC, Anode Installation  
					

Source: Company data

Strong orderbook and tenderbook

As of 3Q23, Wasco's orderbook value was estimated at MYR3.6bn, of which MYR3.3bn (92%) is related to the energy services, followed by bioenergy services (8%). We were guided that its YTD -9M23 job wins amounted to MYR2.7bn. Recent wins include a USD34m supply of pre-fabricated buildings contract in Africa for Schneider Electric and a USD13m line pipe coatings contract for a CSS project (its first ever) in the Port of Rotterdam for Nederlandse Gasunie. Other ongoing key projects include FPSO certain topside modules worth USD127m for Yinson Azalea Production and the provision of line pipe thermal insulation services for the East African Crude Oil Pipeline Project (EACOP), which are on track. Its tenderbook is worth c.RM7bn, with the bulk accounted for by the O&G segment (both pipe-coating and engineering works) – with jobs from the Middle East, Australia, Africa and Malaysia. Wasco expects to maintain its strong replenishment rate in 2H24. Hence, we believe its orderbook should be maintained at more than MYR3bn by the end of the year.

Figure 4: Wasco's outstanding orders as of 3Q23



Source: Company data

Sustained global capex spending

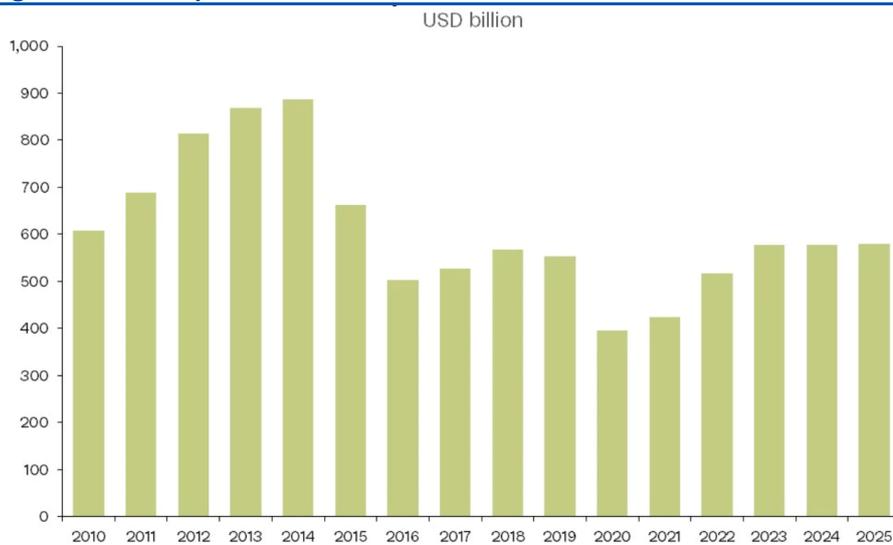
According to Deloitte Insights, the global upstream industry is estimated to maintain hydrocarbon investments at c.USD580bn in 2024. This is also in line with Rystad Energy's estimate, which implies a sustaining at similar levels in 2024-2025. This is not surprising, especially when the demand for fossil fuels spiked up following the outbreak of the Ukraine-Russia conflict in 2022, triggering energy security concerns. In the longer run, natural gas will continue to be the short-to-medium-term interim fuel option in the energy transition journey. With gas being the major key source of energy, we believe Wasco is well-positioned to capitalise on the rising opportunities from gas development projects globally.

As one of the top two global players in the oligopolistic pipe-coating industry, Wasco has, in our view, the edge to compete with its Canada-based rival Bredero Shaw. Some of the pipe-coating services include anti-corrosion coating, concrete weight coating, internal coating, flow assurance coating, and custom coating.

According to Wasco, the pipe coating market is expected to expand from USD8.3bn in 2021 to USD10.6bn by 2027, at a CAGR of 6.8%. For instance, it has commenced works on a new pipe-coating plant in Qatar in 2021. We were guided that the plant has executed some jobs and continues to bid for new projects. In the medium term, Wasco is optimistic that it will benefit from robust gas development projects in the Middle East, ie Qatar Energy's North Field Expansion project, which aims to raise the country's LNG production capacity to 126mtpa by 2026.

Separately, Wasco also owns a 70% stake in Petro-Pipe (Sabah), the only large-diameter spiral pipe manufacturer of API pipes – line pipes manufactured according to specifications by the American Pipe Institute (API) – in Malaysia. These pipelines are mainly used for onshore infrastructure but the earnings contribution to Wasco is rather immaterial.

Figure 5: Global upstream investments



Source: Rystad Energy

Growing engineering business unit

The engineering unit saw strong growth in 2022, with a completion of 10 projects in 2022. Wasco has benefitted from rising modular fabrication within the O&G sector. Basically, modular fabrication involves modules to be pre-fabricated off-site to shorten the project duration in a relatively more cost-effective manner, as compared to traditional on-site fabrication. Modular fabrication also ensures consistency and adherence to international quality assurance standards, while enhancing staff safety with a lower amount of workers to work on-site.

Currently, 50% of its MYR3.3bn outstanding orderbook is related to engineering and fabrication work. To cater for more jobs, Wasco has more than doubled its Batam yard capacity to 30ha. The new yard has a deep waterfront, and can accommodate large ocean-going vessels. The yard achieved 70% utilisation in 2022, and has improved close to 80% in 2023. With the current robust job pipeline, the yard's utilisation, in our view, is likely to be sustained at a similar level in 2024-2025 with the room to cater for more projects.

One of the core capabilities offered by Wasco is on FPSO and topside module design. As such, there is a potential for the company to clinch an EPC or topside module fabrication job whenever domestic players like Yinson (YNS MK, BUY, TP: MYR3.06) secure a new FPSO charter contract. Globally, FPSO demand remains robust, with Brazil remaining as a bright spot with an estimated USD36bn floating production unit capex over the next five years, followed by the African region (c.USD17bn). In spite of this, the contractors' tight capacity could slow down project rollouts. This is evidenced by only six FPSOs being awarded with contracts in 2023, following a 10-year high of 13 awards in 2022.

Based on our conversation with industry players, we understand that there is still a possibility of more than 10 FPSO awards to be given in 2024, and a high level of upfront payment is expected to be generally offered to contractors to reduce their balance sheet constraints. As there are three projects in the conversion/construction stage, Wasco's existing client Yinson is comfortable to secure another project once any of the projects reach the tail-end conversion stage. All in all, we expect the engineering and construction workflow to remain robust over the medium-term, backed by sustained spending by clients.

Opportunities in energy transitioning

Apart from conventional hydrocarbon investments to anchor Wasco's future job pipeline, we have also seen a gradual pick-up in its energy transition-related job flow in the recent wins. This showcases Wasco's ability to ride on a new wave of job opportunities as global O&G players are continuously deploying their capital allocations into new low carbon projects. In 2022, the engineering team delivered its first onshore substation for a solar farm in Taiwan, marking its maiden venture into RE. Meanwhile, in Australia, Wasco commenced works on the South Australia Hydrogen and Bess Project and also completed front-end engineering and design or FEED for Lion Energy's first hydrogen and refueling station in southeast Queensland. Wasco is still executing the USD36m EPC work for Ineos New Energy Plant in Scotland. All these track records are essential for Wasco to clinch more relevant projects in the growing RE and clean energy industry. Although energy transition-related jobs only accounted for only 6% of its existing MYR3.3bn outstanding energy services orderbook, we expect such contributions to increase over the years.

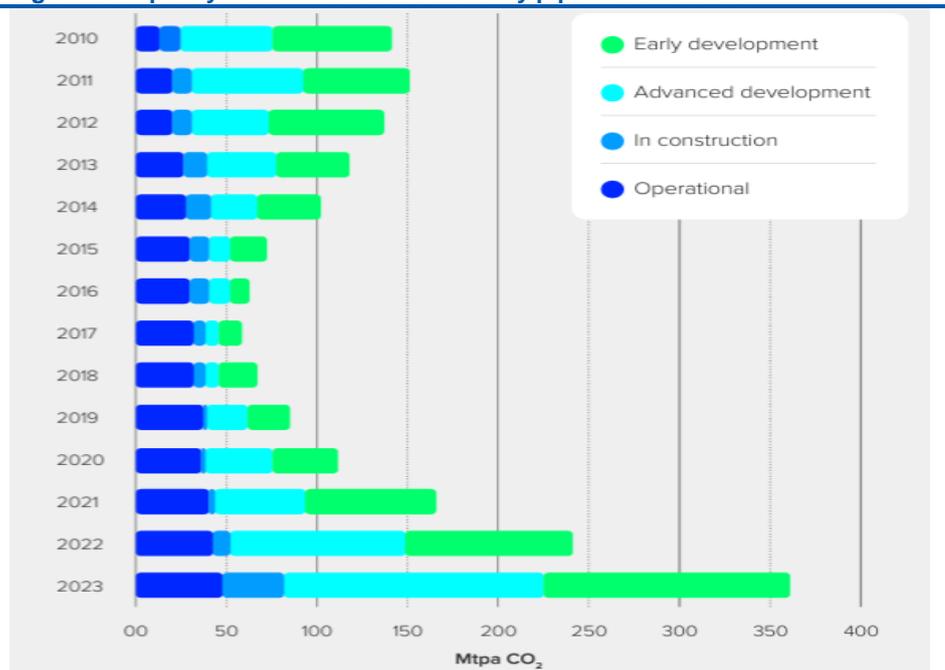
Additionally, Wasco is eyeing the potential of pipe-coating jobs in CCS. It secured its first CCS pipe-coating project in Nov 2023 – this contract is worth USD13m – in the Netherlands. According to management, there are approximately 5,000 km in pipelines for CCS projects planned over 2024-2027, translating to an estimated USD1bn worth of potential pipe-coating job opportunities.

These CCS projects involve capturing carbon dioxide (CO₂) from large point sources, ie power generation or industrial facilities, then compressing and transporting it via pipeline, ship, rail or truck, to be used in a range of applications, or injected into deep geological formations that can trap the CO₂ for permanent storage.

There is a rapid escalation in the new development of new CCS projects, although the bulk of it has yet to be commercialised. According to Global CCS Institute, the total CO₂ capture capacity of publicly announced CCS projects in development, construction and operation increased by 50% YoY to 361mtpa and the total number of commercial CCS projects in the pipeline has also doubled to 392 as of Jul 2023. Such a trend is expected to continue primarily in Europe and North America, backed by favourable government policies and more stringent climate regulations. Global CCS Institute estimated the deployment must increase at least 100-fold by 2050 to fulfil its essential contribution to a net-zero future.

We think that the transport of CO₂ via pipelines will continue to gain traction, as it encourages the widespread deployment of carbon capture, utilisation and storage (CCUS). CO₂ is seen to be relatively safer to transport as it does not form flammable or explosive mixtures with the air nor is it directly toxic to humans or wildlife when released into the atmosphere. For instance, the Alberta Carbon Trunk Line (ACTL) that commenced operations in Jun 2022 can transport up to 14.6m tonnes of CO₂ pa, which is equivalent to c.20% of all current oil sands emissions in Alberta.

Figure 6: Capacity of commercial CCS facility pipeline since 2010



Source: Global CCS Institute

Figure 7: Energy services – the demand outlook for CCS pipelines



Source: Company data

Better opportunities at home

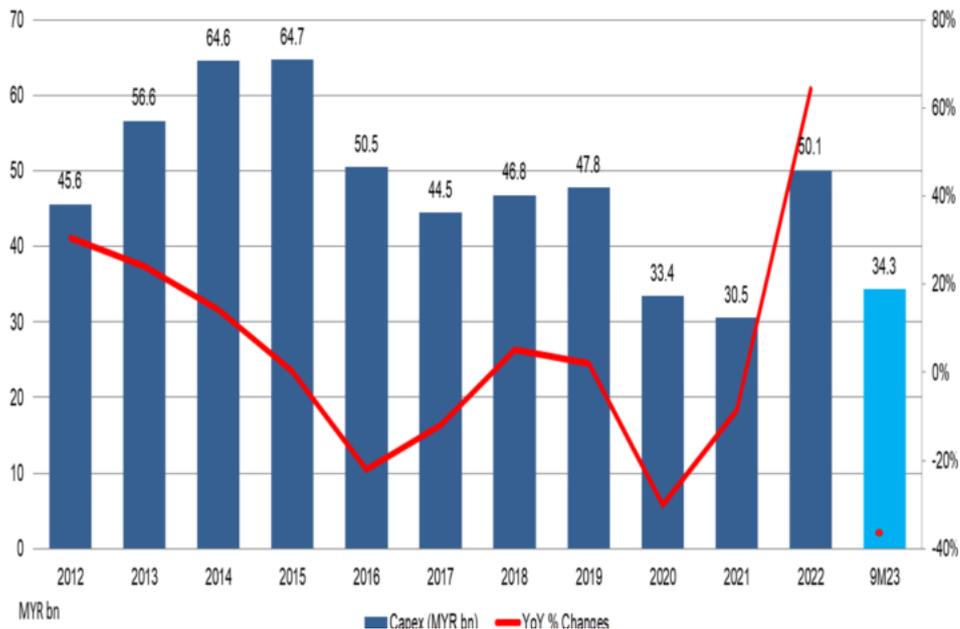
Domestically, the national oil company has guided that it will spend c.MYR113bn or an average of MYR22.6bn pa between 2023 and 2027, which is a 12% increase from the MYR101bn spent over the previous five years (ie MYR20.2bn pa). Simply put, we are not overly excited over such numbers, as Petronas' average annual domestic spending guidance of MYR22.6bn is 9-11% lower than what was spent in 2018-2019 (prior to the pandemic), despite the amount being higher than its annual spending of MYR15-18.6bn in 2020-2022.

Petronas is now targeting a 30% revenue contribution from non-traditional businesses by the end of the decade, while continuing to invest in its core portfolio. This is because hydrocarbon usage is expected to remain relevant in the long run. Its commitment to grow non-traditional sources of income is evidenced by the higher allocation of 25% (previously 20%) of the total, in its 5-year spending plan.

Given that Malaysia aims to position itself as a CCS hub in the region, CCS is one of the top priority focus within the new businesses. Petronas has established 14 strategic commercial partnerships in CCS value chain with energy players, cross-industry partners and institutions to establish a viable ecosystem. The national oil major recently signed a MoU with Japan's Ministry of Economy, Trade and Industry (METI) and Japan Organisation for Metals and Energy Security (JOGMEC) to strengthen collaboration on cross-border CO₂ transportation from business to business for CCS projects.

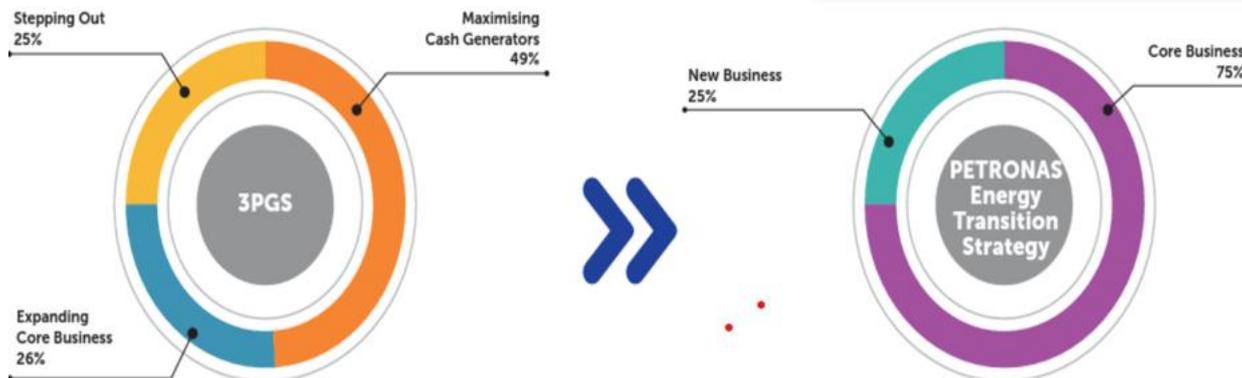
The immediate focus is to achieve Kasawari first CCS injection by 2026 and study new storage sites. As such, we believe Wasco will also benefit from domestic job flow. We gather that the pipe-coating award for the Kasawari CCS project is likely to be awarded in 1Q24 while PTT Exploration & Production's Lang Lebah gas projects pipe-coating work award should materialise in 4Q24. Apart from that, other potential domestic CCS opportunities include the Petronas Carigali and JX Nippon's Bujang, Inas, Guling, Sepat and Tujoh (BIGST).

Figure 8: Petronas' capex trend



Source: RHB, Petronas

Figure 9: Petronas' energy transition strategy

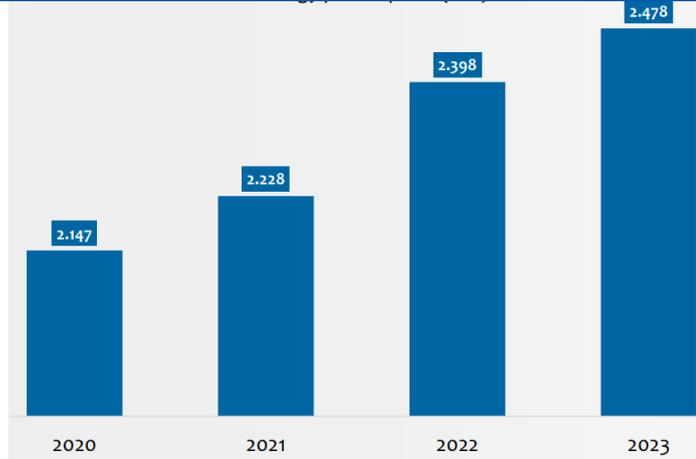


Source: Petronas

More growth potential from its bioenergy services division

Wasco's bioenergy services arm (previously part of its RE arm) supplies specialised equipment for biomass power plants. Equipment like industrial fans, boilers and turbines have run primarily on biomass fuels for the past 20-30 years. It is the sole agent of SHINKO steam turbines from Japan since 1989 and the market leader in the ASEAN region especially for the agro-based Industry. Apart from that, it specialises in designing and fabricating kernel crushing plants and mechanical press machines for oil seeds and palm fibres, and as well as various parts, under the DongYuan brand.

Figure 10: Cumulative total capacity of bioenergy power plants served by Wasco (GW)



Source: Company data

Figure 11: Key clients of Wasco's bioenergy division



Source: Company data

Wasco has installed 1,636 units of turbines and generally any new turbine installation would tie up with a 2-year O&M services contract. We understand almost 60% of these turbines are still being maintained by Wasco. This provides a growing, yet stable and recurring earnings stream as there are more new turbine installation jobs that would enlarge its O&M customer base. Post segmental reclassification, bioenergy services generated MYR210m in revenue (+16% YoY) and MYR34m in operating profit (+42% YoY) in 9M23. The stronger performance was largely led by the higher number of projects executed and improving turbine and equipment sales.

Management is confident to achieve 15-20% growth pa for this segment. In the longer run, we see continuous growth opportunities domestically following the rollout of the NETR last year. Malaysia targets to increase its bio-refinery capacity to 3.5bn litres and upgrade biomass and biogas power generation capacity to 1.4GW by 2050. Biomass demand creation is one of the 10 flagship projects announced under NETR Phase 1, which entails the development of biomass clusters with a centralised plant using aggregated feedstock from multiple neighbouring mills and co-firing initiative at the existing 2,100MW Tanjung Bin Power Plant by burning biomass along with coal. Biomass clustering is expected to improve economies of scale, as well as secure larger and more reliable feedstock. Some of the other few initiatives championed by the Ministry of Plantation and Commodities (KPK) include exploring other alternative bioenergy feedstock, implementing the B30 biodiesel blending mandate by 2030 and addressing feedstock supply security.

Financial Overview

Results review

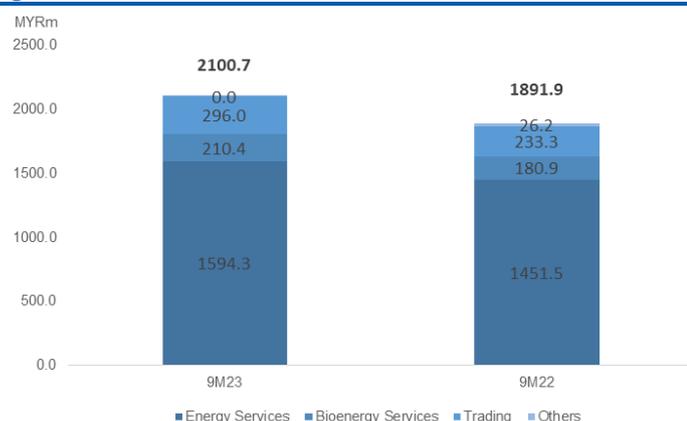
Wasco's earnings have been dragged by weak JV & associate contributions. Last year, lumpy impairments totalling MYR48m were made on investments in associates, Petra Energy (PENB MK, NR) and EVRAZ Wasco Pipe Protection Corporation (EWPPC) as well as its JV, ALAM-PE Holdings (L). Post stripping off one-off items including multiple impairments, Wasco managed to return to the black in FY22 with core earnings of MYR61m (vs FY21's core losses of MYR81m), thanks to stronger earnings contributions from the O&G and RE divisions, led by higher contract billings and industrial engineering (IE) projects executed, as well as improved equipment sales and after-sales services.

Figure 12: Wasco's results review

FYE Dec (MYRm)	3Q22	2Q23	3Q23	QoQ (%)	YoY (%)	9M22	9M23	YoY (%)
Revenue	696.0	677.1	783.9	15.8	12.6	1,891.9	2,100.7	11.0
EBITDA	61.3	69.5	78.3	12.6	27.7	224.5	232.3	3.5
EBITDA margin (%)	8.8	10.3	10.0			11.9	11.1	
Depreciation	-20.2	-19.1	-19.6	2.7	-3.0	-55.1	-56.3	2.3
EBIT	41.0	50.4	58.6	16.3	42.9	169.4	176.0	3.9
EBIT margin (%)	5.9	7.4	7.5			9.0	8.4	
Interest expense	-11.2	-15.2	-16.3	6.8	45.5	-28.6	-46.2	61.5
EI/Others	-2.6	-10.4	-6.1	-41.6	131.8	-11.8	-22.6	91.8
Pretax profit	27.7	38.8	48.6	25.3	75.3	122.6	137.5	12.1
Tax	-2.7	-13.7	-13.3	-2.8	390.1	-37.1	-39.7	6.9
Effective tax rate (%)	9.8	35.2	27.3			30.3	28.9	
Minority interests	-5.5	-1.2	-8.0	586.6	45.6	-43.5	-24.6	-43.5
Net profit	19.6	24.0	27.4	14.2	40.1	41.9	73.2	74.5
Core profit	17.0	13.6	21.4	56.6	25.9	30.2	50.6	67.7
Net margin (%)	2.4	2.0	2.7	35.2	11.8	1.6	2.4	51.0

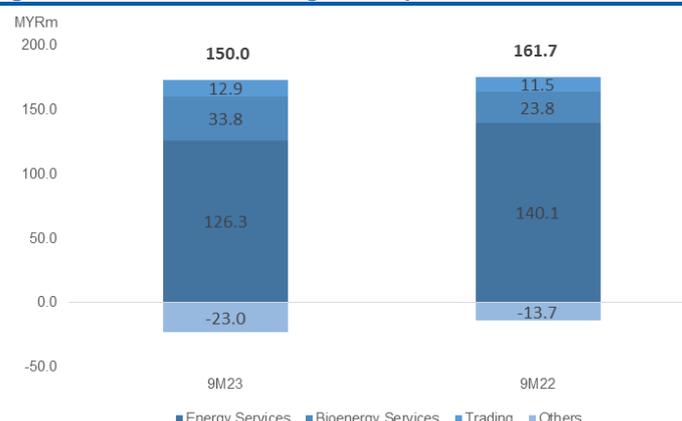
Source: Company data, RHB

Figure 13: 9M23 vs 9M22 revenue breakdown



Source: RHB, Company data

Figure 14: 9M23 vs 9M22 segmental profit breakdown



Source: RHB, Company data

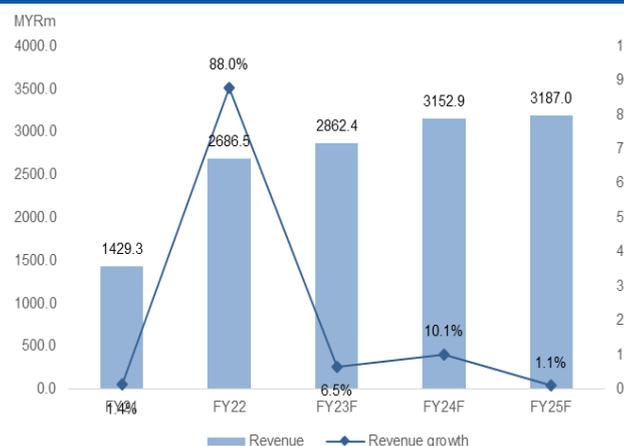
18 January 2024

Energy & Petrochemicals | Oil & Gas Services

More strong earnings growth in FY24

Wasco recorded MYR50.6m in core profit in 9M23 (+68% YoY), mainly due to a ramp-up in project billings from the East African Crude Oil Pipeline or EACOP project and Qatar plant as well as a stronger bioenergy segment (+42% YoY; higher number of projects being executed and higher turbine and equipment sales). This accounted for 68% of our FY23F net profit, as we expect earnings to improve QoQ in 4Q24, backed by decent project billings for energy services. We expect earnings to grow by 23% YoY to MYR75m. For FY24, we estimate core earnings to grow by 40% YoY to MYR105m on the back of 10% YoY topline growth resulting from higher project billings from its existing MYR3.6bn orderbook and an orderbook replenishment of MYR2bn (for energy services). We have also assumed a 10-15% YoY topline growth for its bioenergy division in FY24-25. We may also see further upside in our revenue estimate if Wasco is able to surpass our MYR2bn orderbook replenishment estimate for energy services.

As for its trading division, we have assumed rather flattish revenue growth. We gather that Wasco is looking to exit this business. Although the trading division accounted for 12-13% of total revenue in 9M22-2023, segmental profits for both periods were inflated by disposal gains. The earnings contribution from this GPM assumptions for FY23-24 are 15%, which is rather in line with 9M23's 15%. Should Wasco be able to exit the trading business, we should see revenue tone down by c.10%, but the earnings impact would be rather minimal at 2-3% - along with an overall improvement in margins.

Figure 15: Wasco's revenue is on a steady growth path

Source: RHB, Company data

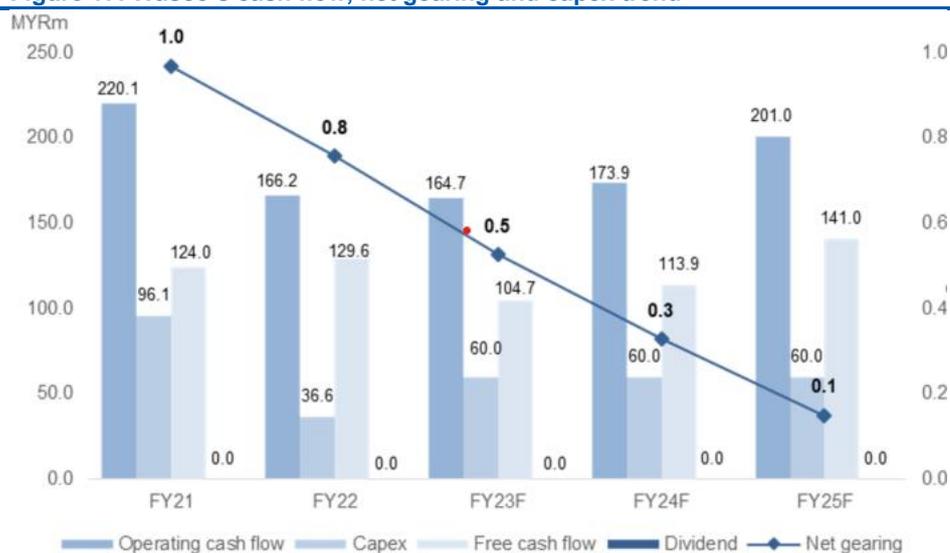
Figure 16: ROE on a gradual recovery due to a better earnings outlook

Source: RHB, Company data

Decent balance sheet with better ROEs.

With Wasco's earnings turnaround, ROE returned to positive territory, at 9.3% in FY22. This is expected to improve further to 10.3% and 12.3% in FY23 and FY24. On Wasco's balance sheet, we note the gradual improvement in net gearing – from 1.0x in 2021 from 0.8x in 2022 – on the back of stronger operating cash flow. We expect such a trend to continue and do not expect any sizeable capex to be incurred. Wasco does not have a dividend policy. Although we do not project the company to distribute dividends, it would not be entirely surprising for Wasco to distribute these in view of its brighter earnings growth outlook.

Figure 17: Wasco's cash flow, net gearing and capex trend



Source: RHB, Company data

Figure 18: Peer comparison

	Price (MYRm)	Mkt cap (MYRm)	P/E (x)		P/BV (x)		EPS growth (%)		ROE (%)		EV/EBITDA		Div. yield (%)
			CY24	CY25	CY24	CY25	CY24	CY25	CY24	CY25	CY24	CY25	CY24
Wasco	1.01	782.1	7.4	7.2	1.0	0.9	40.3	4.0	14.8	3.3	3.1	0.0	
Local peers													
Dialog Group	1.92	10,833.7	22.9	22.1	2.0	3.0	7.3	3.7	9.7	21.8	19.6	1.9	
Yinson Holdings	2.56	7,441.9	10.9	8.5	1.5	1.3	72.0	27.7	15.3	8.0	6.6	0.8	
Bumi Armada	0.53	3,139.0	4.0	4.2	0.5	0.4	31.0	-5.8	12.9	1.3	0.6	0.0	
Dayang Enterprise	1.76	2,037.7	10.8	10.3	1.2	1.1	26.0	4.1	10.7	4.9	4.3	1.7	
MMHE	0.47	744.0	18.3	12.7	0.5	0.4	127.4	44.6	2.5	2.2	0.8	1.9	
Deleum	1.02	409.6	12.3	9.0	1.0	0.9	36.1	15.0	9.4	1.9	1.8	5.8	
Uzma	0.88	338.8	7.4	6.7	0.5	0.5	10.2	20.8	8.1	4.3	3.8	0.0	
Average			14.7	14.1	1.5	1.9	35.2	11.3	11.6	12.6	11.0	1.3	

Source: RHB, Company data

Company Overview

Background

Wasco (formerly known as Wah Seong Corporation) was incorporated in 1999 and since has evolved into an international energy solutions services and industrial services group. With a strong presence in Malaysia, it has successfully expanded its footprint globally across 17 countries worldwide.

Its energy solutions services division provides world-class specialised pipe coating, corrosion protection services, EPC, fabrication and rental of gas compressors and process equipment, and various E&P products and services for the international O&G sector. Its industrial services division is involved in RE, agriculture development and infrastructure materials. Through this division, the company has grown to be one of the leading service providers of process equipment in Asia, serving the plantation, oleo-chemical, petrochemical and power generation industries.

Business overview

The group has three major services:

- i. **Pipeline services.** Wasco is a global operator providing a full range of coating services for both onshore and offshore pipelines where its capabilities include pipe manufacturing, pipe coating and offshore corrosion control. Its extensive global facilities spans across Asia, West Africa, the Middle East, Europe and the US.

Figure 19: Pipe coating



Anti-corrosion coating

Coats pipes from 4" to 60" OD and up to 18m in length using various coating systems.



Concrete weight coating

For negative buoyancy: Impingement process & pipes range from OD 6.625"- 60" and up to 13m in length.



Internal coating

2-component liquid epoxy paint improves pipeline flow and can be used for water and chemicals. Pipes range from OD 12.75"- 60" and up to 18m pipe length.



Flow assurance coating

As for flow assurance coating, pipes ranging from OD 4"-30" and up to 18m in length.



Custom coating

Bends, fittings, fabricated spools, valves, manifolds, short runs of straight pipes, and other components for both onshore and offshore projects.

Thermal spray aluminum (TSA) coatings.

Source: Company data

Figure 20: Pipe manufacturing



The only large diameter spiral pipe manufacturer of API in Malaysia. Its plant is located in Kota Kinabalu.

Services include

1. API-certified spiral steel pipes
2. Piling pipes
3. Specially coated pipes/lined water pipes
4. Pipe fittings accessories

Source: Company data

- ii. **Engineering and fabrication services.** The group provides all-encompassing solutions including engineering design, procurement, packaging, general fabrication, installation, commissioning as well as O&M services of offshore and onshore modules. Its fabrication facilities are strategically located in South-East Asia and the Middle East and Africa.

Figure 21: Engineering services

Modules for FPSO, MOPU, Platform & Onshore Plants EPC & PC



Pipe Rack and Process Modules (PAU, PAR, STM)



E-House & Substations, ESB & E&I Modular Buildings EPC & PC



Gas Plant/Compression/EPF/MOPU Leasing & Aftermarket Services



Source: Company data

- iii. **Bioenergy services.** The group is a leading process and power generation solutions provider with a strong track record servicing various industries across the world. It has the largest fabricator of steam biomass turbines and boilers, which supplies to 70% of the palm oil industry. Its high-capacity boilers are efficient green solutions that run on clean energy, including biomass waste and natural gas for biomass and co-generation. Its heat recovery steam generator (HRSG) allows for the recovery of waste heat from gas turbine combustion above 80% efficiency, thereby reducing its carbon footprint. The group's bioenergy services include:
- iv. Packaged process equipment;
 - v. Packaged steam turbine;
 - vi. Empty fruit bunch (EFB) press;
 - vii. Decanter, separator and purifier;
 - viii. Biomass pellet plant;
 - ix. EFB depurating plant;
 - x. Boiler;
 - xi. Heat recovery steam generator.

Board Of Directors

Dato' Seri Robert Tan Chung Meng, Non-Independent Non-Executive Chairman. He was appointed to the Board on 22 May 2002. Dato' Seri Robert Tan has vast experience in property development, hotel construction, retail design and development as well as corporate management with more than 30 years' experience in the property and hotel industries. He is also the Group Managing Director of IGB Corp, Managing Director of IGB REIT Management (the Manager of IGB REIT and IGB Commercial REIT), a Director of Tan & Tan Developments (a property division of IGB Corp), and a Trustee of Yayasan Tan Kim Yeow. He also sits on the boards of several private limited companies.

Gian Carlo Maccagno, Managing Director/Group CEO. He was first appointed as an Executive Director of Wasco on 1 Jun 2004 and subsequently promoted to be the Deputy Managing Director on 1 Jan 2007. He is also the CEO of the Wasco Energy Group of Companies. He is responsible for the overall business and management operations of the Wasco Group. Maccagno is a Director of Petra Energy. He also sits on the boards of several other private limited companies.

Chan Cheu Leong, Non-Independent Non-Executive Director. Chan was appointed to the Board on 22 May 2002. He is responsible for the overall business and management operations of the Wasco Group. In 1994, he established Wah Seong Industrial Holdings and subsequently formed Wasco. He has extensive experience in the property, manufacturing and financial fields. Chan is a Trustee of Yayasan Wah Seong and former member of Sustainable Energy Development Authority (SEDA) Malaysia. He is also a member of the Advisory Council of Federation of Malaysian Manufacturers (FMM) and he sits on the boards of several other private limited companies.

Halim Bin Haji Din, Non-Independent Non-Executive Director. He was appointed to the Board on 22 May 2002. Halim is a Chartered Accountant who spent more than 30 years working for multinational corporations and O&G industry. He is the fellow member of MICPA and Malaysian Institute of Accountants.

Tan Sri Professor Lin See Yan, Non-Independent Non-Executive Director. He was appointed to the Board on 20 Jul 2004. Prior to 1998, he was Chairman/President and CEO of Pacific Bank and 14 years previously, Deputy Governor of Bank Negara Malaysia, having been a central banker for 34 years. Tan Sri Lin advises and sits on the boards of a number of publicly listed and private businesses in Malaysia as well as ASEAN. He is also a Director of Sunway, IGB REIT Management Sdnas well as IGB Commercial REIT and Nylex (Malaysia).

Aaron Tan Jian Hong, Aaron, Non-Independent Non-Executive Director. He was appointed to the Board on 25 May 2015. In 2021, Tan had taken up the investment advisory roles at Astrid Hill Asset Management and K3 Ventures. Mr Tan was appointed as an Alternate Director to Tony Tan Choon Keat on the Board of IGB from Nov 2016 till Apr 2018. He also sits on the board of several private limited companies.

Tan Sri Saw Choo Boon, Independent Non-Executive Director. He was appointed to the Board on 6 Apr 2018. He was appointed Chairman of Shell Malaysia in 2006 until his retirement in 2010 after 40 years of continuous service. Currently, Tan Sri Saw is the Chairman of Sentral REIT Management. He is also a Board member of Socio-Economic Research Centre SB of Associated Chinese Chambers of Commerce and Industry Malaysia and a Council Member of the Federation of Malaysian Manufacturers.

Datin Wan Daneena Liza Binti Wan Abdul Rahman, Independent Non-Executive Director. She was appointed to the Board on 7 Apr 2023. Datin Wan Daneena has more than 25 years of experience in providing various types of assurance and business advisory services to corporations including financial institutions and conglomerates, listed and private entities which include commercial, Islamic and investment banks, development financial institutions, asset management and stock broking companies, sovereign wealth funds, venture capital and private equity funds, unit and property trusts, investment holding companies, credit rating agency, government-linked investment companies, statutory bodies and foundations.

Lily Rozita Binti Mohamad Khairi, Independent Non-Executive Director. She was appointed to the Board on Apr 2023. Lily has more than 28 years of experience within the Shell organisation in a variety of roles inclusive of legal, ethics & compliance and human resources management.

Key management team

Gian Carlo Maccagno, Managing Director/Group CEO. (Please refer to board of directors' section for his profile).

Ramanathan A/L PR Singaram, CFO. He attained his ACCA from the Association of Chartered Certified Accountants, the UK, in 1994. He is a Fellow of Association of Chartered Certified Accountants, United Kingdom and a member of Malaysian Institute of Accountants. He began his career in Wah Seong Corporation as the head of group internal audit in Jun 2006 and took up the role of Group Financial Controller of the energy division in Jun 2008. In 2009, he also took up additional responsibility for the regulatory reporting of Wah Seong Corporation. Ramanathan assumed his current role in Jul 2013. He also sits on the boards of a number of subsidiaries, associates and jointly controlled companies within the group.

Ariesza Noor, Chief Strategy Officer. She is a CPA Australia and has a BCom Hons Degree in Accounting & Finance from Lincoln University, New Zealand. She joined Wah Seong Corporation as Manager, Investor Relations in 2008. Ariesza Noor rejoined Wasco in 2014 and has served as the Vice President, Group Strategy and Operations where she oversees the group's branding, marketing, strategic planning and M&A activities, apart from leading Wasco's major pipe coating operations in Malaysia.

Irene Woo Ying Pun, Group Company Secretary. Woo is a Fellow Member of the Malaysian Institute of Chartered Secretaries and Administrators (MAICSA) and also a former Council Member from Jun 2016 to Jun 2022 of MAICSA. She is a qualified chartered secretary and a chartered governance professional. She heads the Group Corporate Secretarial Department of Wasco and is a member of the key senior management team of the Wasco Group. Woo has more than 30 years of extensive relevant working experience in the corporate secretarial practice both as the in-house group company secretary for large public listed groups as well as in large professional consultancy firms.

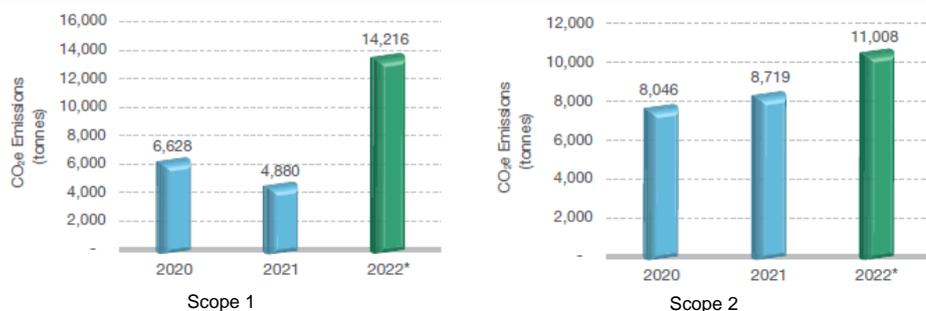
Sivaramayah A/L Sivalingam, Head, Group Internal Audit. Sivaramayah has helmed the Group Internal Audit department of Wah Seong Corporation since 1 Aug 2019. He reports functionally to the Audit Committee and administratively to the Managing Director/Group CEO and Deputy Managing Director in assisting Wah Seong Corporation to accomplish its objectives by bringing a systematic, disciplined approach to evaluate and improve the effectiveness of risk management, control and governance. He is a member of the Institute of Internal Auditors Malaysia (IIAM), the Malaysian Institute of Accountants (MIA) and the Malaysian Institute of Management (MIM). Sivaramayah has over 20 years of experience where he assumed various responsibilities in internal auditing, external auditing, risk management, quality management, cost accounting and compliance in public-listed companies and other organisations. He has over 15 years in senior positions handling internal audit in the O&G industry including companies such as Sapura Energy and Sumatec Resources.

ESG Efforts

Environment. The pursuit of environmental sustainability is a core commitment at Wasco, as it continually refines its environmental policy and practices to align with legal frameworks and regulations. These ongoing efforts, encompassing pollution prevention, waste minimisation, and resource conservation across all its operational regions, represent the group's dedication to responsible environmental stewardship. As such, the group did not receive any environmental fines and penalties during the year.

Wasco targets to achieve operational net-zero emissions by 2026. This ambitious goal is fuelled by a two-pronged approach: Aggressive emissions reduction targets and strategic carbon offsetting through tree planting. The company is actively investing in nature-based solutions like tree planting. In 2022, it successfully completed the first tree planting programme, which was initiated in 2021. Based on its calculations using 2020 emissions as a baseline, planting approximately 113,700 trees will offset 7,580 tCO₂e of residual emissions, contributing to its net-zero goal by 2026. Additionally, Wasco's strategy includes increasing its RE sources in its energy mix and as at 3Q23, green electricity contributes 26% to total electricity. In 2022, the group's total GHG emissions nearly doubled to 25,224 tCO₂e due to expanded reporting from all entities, compared to the previous tracking of only the energy solution services division.

Figure 22: Wasco's 2020-2022 carbon emissions



Source: Company

Social. Wasco prioritises a safe and healthy workplace for employees, contractors and other stakeholders with stringent health and safety standards in place to help prevent hazards and incidents. As a result, the group reported no lost time incidents (LTIs) or health & safety incidents that have led to fatalities in 2022. Wasco advocates responsible labour practices wherever it operates, adhering to all relevant employment and human rights regulations. This extends to its suppliers, requiring them to uphold with the group's Principles of Business Conduct and Human Rights Statement as a minimum standard.

Wasco also involves itself with the community and remains active in providing financial assistance under its foundation, Yayasan Wah Seong, which offers scholarships for full-time first degree courses in Malaysian public universities. In 2022, Yayasan Wah Seong helped 5 scholars.

Governance. Board characteristics are in line with Bursa Malaysia and Malaysian Code on Corporate Governance requirements, with independence of the board maintained, directors being skilled and experienced. There is female representation on the board although not at the recommended 33% level. Transparency and disclosure of information are at an adequate level, which allows stakeholders to make fair assessments on the firm. Shareholder rights are also well protected.

Emissions And ESG

Trend analysis

Wasco's FY22 GHG emissions rose 85.5% as the year's data encompasses all entities in the company, whereas 2020 and 2021 were scoped to its Energy Solutions Services only.

Emissions (tCO2e)	Dec-20	Dec-21	Dec-22
Scope 1	6,628	4,880	14,216
Scope 2	8,046	8,719	11,008
Scope 3	na	na	na
Total emissions	14,674	13,599	25,224

Source: Company data, RHB

Latest ESG-Related Developments

- In FY22, Wasco planted 130,000 trees in Maran, Pahang as part of its carbon sequestration programme.
- Wasco also subscribed to the 500,000 kWh/month Green Electricity Tariff (GET) under Tenaga Nasional's GET programme.

ESG Rating History



Source: RHB

Recommendation Chart



Source: RHB, Bloomberg

Date	Recommendation	Target Price	Price
2023-07-17	Trading Buy	1.37	0.95

Source: RHB, Bloomberg

RHB Guide to Investment Ratings

Buy:	Share price may exceed 10% over the next 12 months
Trading Buy:	Share price may exceed 15% over the next 3 months, however longer-term outlook remains uncertain
Neutral:	Share price may fall within the range of +/- 10% over the next 12 months
Take Profit:	Target price has been attained. Look to accumulate at lower levels
Sell:	Share price may fall by more than 10% over the next 12 months
Not Rated:	Stock is not within regular research coverage

Investment Research Disclaimers

RHB has issued this report for information purposes only. This report is intended for circulation amongst RHB and its affiliates' clients generally or such persons as may be deemed eligible by RHB to receive this report and does not have regard to the specific investment objectives, financial situation and the particular needs of any specific person who may receive this report. This report is not intended, and should not under any circumstances be construed as, an offer or a solicitation of an offer to buy or sell the securities referred to herein or any related financial instruments.

This report may further consist of, whether in whole or in part, summaries, research, compilations, extracts or analysis that has been prepared by RHB's strategic, joint venture and/or business partners. No representation or warranty (express or implied) is given as to the accuracy or completeness of such information and accordingly investors should make their own informed decisions before relying on the same.

This report is not directed to, or intended for distribution to or use by, any person or entity who is a citizen or resident of or located in any locality, state, country or other jurisdiction where such distribution, publication, availability or use would be contrary to the applicable laws or regulations. By accepting this report, the recipient hereof (i) represents and warrants that it is lawfully able to receive this document under the laws and regulations of the jurisdiction in which it is located or other applicable laws and (ii) acknowledges and agrees to be bound by the limitations contained herein. Any failure to comply with these limitations may constitute a violation of applicable laws.

All the information contained herein is based upon publicly available information and has been obtained from sources that RHB believes to be reliable and correct at the time of issue of this report. However, such sources have not been independently verified by RHB and/or its affiliates and this report does not purport to contain all information that a prospective investor may require. The opinions expressed herein are RHB's present opinions only and are subject to change without prior notice. RHB is not under any obligation to update or keep current the information and opinions expressed herein or to provide the recipient with access to any additional information. Consequently, RHB does not guarantee, represent or warrant, expressly or impliedly, as to the adequacy, accuracy, reliability, fairness or completeness of the information and opinion contained in this report. Neither RHB (including its officers, directors, associates, connected parties, and/or employees) nor does any of its agents accept any liability for any direct, indirect or consequential losses, loss of profits and/or damages that may arise from the use or reliance of this research report and/or further communications given in relation to this report. Any such responsibility or liability is hereby expressly disclaimed.

Whilst every effort is made to ensure that statement of facts made in this report are accurate, all estimates, projections, forecasts, expressions of opinion and other subjective judgments contained in this report are based on assumptions considered to be reasonable and must not be construed as a representation that the matters referred to therein will occur. Different assumptions by RHB or any other source may yield substantially different results and recommendations contained on one type of research product may differ from recommendations contained in other types of research. The performance of currencies may affect the value of, or income from, the securities or any other financial instruments referenced in this report. Holders of depositary receipts backed by the securities discussed in this report assume currency risk. Past performance is not a guide to future performance. Income from investments may fluctuate. The price or value of the investments to which this report relates, either directly or indirectly, may fall or rise against the interest of investors.

This report may contain comments, estimates, projections, forecasts and expressions of opinion relating to macroeconomic research published by RHB economists of which should not be considered as investment ratings/advice and/or a recommendation by such economists on any securities discussed in this report.

This report does not purport to be comprehensive or to contain all the information that a prospective investor may need in order to make an investment decision. The recipient of this report is making its own independent assessment and decisions regarding any securities or financial instruments referenced herein. Any investment discussed or recommended in this report may be unsuitable for an investor depending on the investor's specific investment objectives and financial position. The material in this report is general information intended for recipients who understand the risks of investing in financial instruments. This report does not take into account whether an investment or course of action and any associated risks are suitable for the recipient. Any recommendations contained in this report must therefore not be relied upon as investment advice based on the recipient's personal circumstances. Investors should make their own independent evaluation of the information contained herein, consider their own investment objective, financial situation and particular needs and seek their own financial, business, legal, tax and other advice regarding the appropriateness of investing in any securities or the investment strategies discussed or recommended in this report.

This report may contain forward-looking statements which are often but not always identified by the use of words such as "believe", "estimate", "intend" and "expect" and statements that an event or result "may", "will" or "might" occur or be achieved and other similar expressions. Such forward-looking statements are based on assumptions made and information currently available to RHB and are subject to known and unknown risks, uncertainties and other factors which may cause the actual results, performance or achievement to be materially different from any future results, performance or achievement, expressed or implied by such forward-looking statements. Caution should be taken with respect to such statements and recipients of this report should not place undue reliance on any such forward-looking statements. RHB expressly disclaims any obligation to update or revise any forward-looking statements, whether as a result of new information, future events or circumstances after the date of this publication or to reflect the occurrence of unanticipated events.

The use of any website to access this report electronically is done at the recipient's own risk, and it is the recipient's sole responsibility to take precautions to ensure that it is free from viruses or other items of a destructive nature. This report may also provide the addresses of, or contain hyperlinks to, websites. RHB takes no responsibility for the content contained therein. Such addresses or hyperlinks (including addresses or hyperlinks to RHB own website material) are provided solely for the recipient's convenience. The information and the content of the linked site do not in any way form part of this report. Accessing such website or following such link through the report or RHB website shall be at the recipient's own risk.

This report may contain information obtained from third parties. Third party content providers do not guarantee the accuracy, completeness, timeliness or availability of any information and are not responsible for any errors or omissions (negligent or otherwise), regardless of the cause, or for the results obtained from the use of such content. Third party content providers give no express or implied warranties, including, but not limited to, any warranties of merchantability or fitness for a particular purpose or use. Third party content providers shall not be liable for any direct, indirect, incidental, exemplary, compensatory, punitive, special or consequential damages, costs, expenses, legal fees, or losses (including lost income or profits and opportunity costs) in connection with any use of their content.

The research analysts responsible for the production of this report hereby certifies that the views expressed herein accurately and exclusively reflect his or her personal views and opinions about any and all of the issuers or securities analysed in this report and were prepared independently and autonomously. The research analysts that authored this report are precluded by RHB in all circumstances from trading in the securities or other financial instruments referenced in the report, or from having an interest in the company(ies) that they cover.

The contents of this report is strictly confidential and may not be copied, reproduced, published, distributed, transmitted or passed, in whole or in part, to any other person without the prior express written consent of RHB and/or its affiliates. This report has been delivered to RHB and its affiliates' clients for information purposes only and upon the express understanding that such parties will use it only for the purposes set forth above. By electing to view or accepting a copy of this report, the recipients have agreed that they will not print, copy, videotape, record, hyperlink, download, or otherwise attempt to reproduce or re-transmit (in any form including hard copy or electronic distribution format) the contents of this report. RHB and/or its affiliates accepts no liability whatsoever for the actions of third parties in this respect.

The contents of this report are subject to copyright. Please refer to Restrictions on Distribution below for information regarding the distributors of this report. Recipients must not reproduce or disseminate any content or findings of this report without the express permission of RHB and the distributors.

The securities mentioned in this publication may not be eligible for sale in some states or countries or certain categories of investors. The recipient of this report should have regard to the laws of the recipient's place of domicile when contemplating transactions in the securities or other financial instruments referred to herein. The securities discussed in this report may not have been registered in such jurisdiction. Without prejudice to the foregoing, the recipient is to note that additional disclaimers, warnings or qualifications may apply based on geographical location of the person or entity receiving this report.

The term "RHB" shall denote, where appropriate, the relevant entity distributing or disseminating the report in the particular jurisdiction referenced below, or, in every other case, RHB Investment Bank Berhad and its affiliates, subsidiaries and related companies.

RESTRICTIONS ON DISTRIBUTION

Malaysia

This report is issued and distributed in Malaysia by RHB Investment Bank Berhad ("RHBIB"). The views and opinions in this report are our own as of the date hereof and is subject to change. If the Financial Services and Markets Act of the United Kingdom or the rules of the Financial Conduct Authority apply to a recipient, our obligations owed to such recipient therein are unaffected. RHBIB has no obligation to update its opinion or the information in this report.

Thailand

This report is issued and distributed in the Kingdom of Thailand by RHB Securities (Thailand) PCL, a licensed securities company that is authorised by the Ministry of Finance, regulated by the Securities and Exchange Commission of Thailand and is a

member of the Stock Exchange of Thailand. The Thai Institute of Directors Association has disclosed the Corporate Governance Report of Thai Listed Companies made pursuant to the policy of the Securities and Exchange Commission of Thailand. RHB Securities (Thailand) PCL does not endorse, confirm nor certify the result of the Corporate Governance Report of Thai Listed Companies.

Indonesia

This report is issued and distributed in Indonesia by PT RHB Sekuritas Indonesia. This research does not constitute an offering document and it should not be construed as an offer of securities in Indonesia. Any securities offered or sold, directly or indirectly, in Indonesia or to any Indonesian citizen or corporation (wherever located) or to any Indonesian resident in a manner which constitutes a public offering under Indonesian laws and regulations must comply with the prevailing Indonesian laws and regulations.

Singapore

This report is issued and distributed in Singapore by RHB Bank Berhad (through its Singapore branch) which is an exempt capital markets services entity and an exempt financial adviser regulated by the Monetary Authority of Singapore. RHB Bank Berhad (through its Singapore branch) may distribute reports produced by its respective foreign entities, affiliates or other foreign research houses pursuant to an arrangement under Regulation 32C of the Financial Advisers Regulations. Where the report is distributed in Singapore to a person who is not an Accredited Investor, Expert Investor or an Institutional Investor, RHB Bank Berhad (through its Singapore branch) accepts legal responsibility for the contents of the report to such persons only to the extent required by law. Singapore recipients should contact RHB Bank Berhad (through its Singapore branch) in respect of any matter arising from or in connection with the report.

United States

This report was prepared by RHB is meant for distribution solely and directly to "major" U.S. institutional investors as defined under, and pursuant to, the requirements of Rule 15a-6 under the U.S. Securities and Exchange Act of 1934, as amended (the "Exchange Act") via a registered U.S. broker-dealer as appointed by RHB from time to time. Accordingly, any access to this report via Bursa Marketplace or any other Electronic Services Provider is not intended for any party other than "major" US institutional investors (via a registered U.S broker-dealer), nor shall be deemed as solicitation by RHB in any manner. RHB is not registered as a broker-dealer in the United States and currently has not appointed a U.S. broker-dealer. Additionally, RHB does not offer brokerage services to U.S. persons. Any order for the purchase or sale of all securities discussed herein must be placed with and through a registered U.S. broker-dealer as appointed by RHB from time to time as required by the Exchange Act Rule 15a-6. For avoidance of doubt, RHB reiterates that it has not appointed any U.S. broker-dealer during the issuance of this report. This report is confidential and not intended for distribution to, or use by, persons other than the recipient and its employees, agents and advisors, as applicable. Additionally, where research is distributed via Electronic Service Provider, the analysts whose names appear in this report are not registered or qualified as research analysts in the United States and are not associated persons of any registered U.S. broker-dealer as appointed by RHB from time to time and therefore may not be subject to any applicable restrictions under Financial Industry Regulatory Authority ("FINRA") rules on communications with a subject company, public appearances and personal trading. Investing in any non-U.S. securities or related financial instruments discussed in this research report may present certain risks. The securities of non-U.S. issuers may not be registered with, or be subject to the regulations of, the U.S. Securities and Exchange Commission. Information on non-U.S. securities or related financial instruments may be limited. Foreign companies may not be subject to audit and reporting standards and regulatory requirements comparable to those in the United States. The financial instruments discussed in this report may not be suitable for all investors. Transactions in foreign markets may be subject to regulations that differ from or offer less protection than those in the United States.

DISCLOSURE OF CONFLICTS OF INTEREST

RHB Investment Bank Berhad, its subsidiaries (including its regional offices) and associated companies, ("RHBIB Group") form a diversified financial group, undertaking various investment banking activities which include, amongst others, underwriting, securities trading, market making and corporate finance advisory.

As a result of the same, in the ordinary course of its business, any member of the RHBIB Group, may, from time to time, have business relationships with, hold any positions in the securities and/or capital market products (including but not limited to shares, warrants, and/or derivatives), trade or otherwise effect transactions for its own account or the account of its customers or perform and/or solicit investment, advisory or other services from any of the subject company(ies) covered in this research report.

While the RHBIB Group will ensure that there are sufficient information barriers and internal controls in place where necessary, to prevent/manage any conflicts of interest to ensure the independence of this report, investors should also be aware that such conflict of interest may exist in view of the investment banking activities undertaken by the RHBIB Group as mentioned above and should exercise their own judgement before making any investment decisions.

In Singapore, investment research activities are conducted under RHB Bank Berhad (through its Singapore branch), and the disclaimers above similarly apply.

Malaysia

Save as disclosed in the following link [RHB Research Conflict Disclosures - Jan 2024](#) and to the best of our knowledge, RHBIB hereby declares that:

1. RHBIB does not have a financial interest in the securities or other capital market products of the subject company(ies) covered in this report.
2. RHBIB is not a market maker in the securities or capital market products of the subject company(ies) covered in this report.
3. None of RHBIB's staff or associated person serve as a director or board member* of the subject company(ies) covered in this report
**For the avoidance of doubt, the confirmation is only limited to the staff of research department*
4. RHBIB did not receive compensation for investment banking or corporate finance services from the subject company in the past 12 months.
5. RHBIB did not receive compensation or benefit (including gift and special cost arrangement e.g. company/issuer-sponsored and paid trip) in relation to the production of this report.

Thailand

Save as disclosed in the following link [RHB Research Conflict Disclosures - Jan 2024](#) and to the best of our knowledge, RHB Securities (Thailand) PCL hereby declares that:

1. RHB Securities (Thailand) PCL does not have a financial interest in the securities or other capital market products of the subject company(ies) covered in this report.
2. RHB Securities (Thailand) PCL is not a market maker in the securities or capital market products of the subject company(ies) covered in this report.
3. None of RHB Securities (Thailand) PCL's staff or associated person serve as a director or board member* of the subject company(ies) covered in this report
**For the avoidance of doubt, the confirmation is only limited to the staff of research department*
4. RHB Securities (Thailand) PCL did not receive compensation for investment banking or corporate finance services from the subject company in the past 12 months.
5. RHB Securities (Thailand) PCL did not receive compensation or benefit (including gift and special cost arrangement e.g. company/issuer-sponsored and paid trip) in relation to the production of this report.

Indonesia

Save as disclosed in the following link [RHB Research Conflict Disclosures - Jan 2024](#) and to the best of our knowledge, PT RHB Sekuritas Indonesia hereby declares that:

1. PT RHB Sekuritas Indonesia and its investment analysts, does not have any interest in the securities of the subject company(ies) covered in this report.
For the avoidance of doubt, interest in securities include the following:
 - a) Holding directly or indirectly, individually or jointly own/hold securities or entitled for dividends, interest or proceeds from the sale or exercise of the subject company's securities covered in this report*;
 - b) Being bound by an agreement to purchase securities or has the right to transfer the securities or has the right to pre subscribe the securities*.
 - c) Being bound or required to buy the remaining securities that are not subscribed/placed out pursuant to an Initial Public Offering*.
 - d) Managing or jointly with other parties managing such parties as referred to in (a), (b) or (c) above.
2. PT RHB Sekuritas Indonesia is not a market maker in the securities or capital market products of the subject company(ies) covered in this report.
3. None of PT RHB Sekuritas Indonesia's staff** or associated person serve as a director or board member* of the subject company(ies) covered in this report.
4. PT RHB Sekuritas Indonesia did not receive compensation for investment banking or corporate finance services from the subject company in the past 12 months.
5. PT RHB Sekuritas Indonesia** did not receive compensation or benefit (including gift and special cost arrangement e.g. company/issuer-sponsored and paid trip) in relation to the production of this report:

Notes:

**The overall disclosure is limited to information pertaining to PT RHB Sekuritas Indonesia only.*

***The disclosure is limited to Research staff of PT RHB Sekuritas Indonesia only.*

Singapore

Save as disclosed in the following link [RHB Research Conflict Disclosures - Jan 2024](#) and to the best of our knowledge, the Singapore Research department of RHB Bank Berhad (through its Singapore branch) hereby declares that:

1. RHB Bank Berhad, its subsidiaries and/or associated companies do not make a market in any issuer covered by the Singapore research analysts in this report.
2. RHB Bank Berhad, its subsidiaries and/or its associated companies and its analysts do not have a financial interest (including a shareholding of 1% or more) in the issuer covered by the Singapore research analysts in this report.
3. RHB Bank Berhad's Singapore research staff or connected persons do not serve on the board or trustee positions of the issuer covered by the Singapore research analysts in this report.
4. RHB Bank Berhad, its subsidiaries and/or its associated companies do not have and have not within the last 12 months had any corporate finance advisory relationship with the issuer covered by the Singapore research analysts in this report or any other relationship that may create a potential conflict of interest.
5. RHB Bank Berhad's Singapore research analysts, or person associated or connected to it do not have any interest in the acquisition or disposal of the securities, specified securities based derivatives contracts or units in a collective investment scheme covered by the Singapore research analysts in this report.
6. RHB Bank Berhad's Singapore research analysts do not receive any compensation or benefit in connection with the production of this research report or recommendation on the issuer covered by the Singapore research analysts.

Analyst Certification

The analyst(s) who prepared this report, and their associates hereby, certify that:

(1) they do not have any financial interest in the securities or other capital market products of the subject companies mentioned in this report, except for:

Analyst	Company
-	-

(2) no part of his or her compensation was, is or will be directly or indirectly related to the specific recommendations or views expressed in this report.



KUALA LUMPUR

RHB Investment Bank Bhd
Level 3A, Tower One, RHB Centre
Jalan Tun Razak
Kuala Lumpur 50400
Malaysia
Tel : +603 9280 8888
Fax : +603 9200 2216

JAKARTA

PT RHB Sekuritas Indonesia
Revenue Tower, 11th Floor, District 8 - SCBD
Jl. Jendral Sudirman Kav 52-53
Jakarta 12190
Indonesia
Tel : +6221 509 39 888
Fax : +6221 509 39 777

BANGKOK

RHB Securities (Thailand) PCL
10th Floor, Sathorn Square Office Tower
98, North Sathorn Road, Silom
Bangrak, Bangkok 10500
Thailand
Tel: +66 2088 9999
Fax :+66 2088 9799

SINGAPORE

RHB Bank Berhad (Singapore branch)
90 Cecil Street
#04-00 RHB Bank Building
Singapore 069531
Fax: +65 6509 0470