**EQUITY RESEARCH - COMPANY REPORT** 







# WHA UTILITIES AND POWER

WHAUP TB

THAILAND / UTILITIES

# BUY

# UNCHANGED

# **Moderate growth for 1Q25E earnings**

- Expect 1Q25 net profit to increase 3% q-q, thanks to a declining coal inventory loss from GHECO-1. The expected decline of 48% y-y is due to a significant FX loss and higher SG&A cost.
- Maintain our net profit forecast of 21% y-y growth in 2025, supported by the potential upside from improved IPP performance and additional new capacity.
- Reiterate BUY rating with our TP of THB4.50, as there is a high potential upside from the promising AI data center investment in WHA's industrial estate.

### Expect 1Q25 net profit to rise 3% q-q but drop 48% y-y

We expect WHAUP to report a 1Q25 net profit of THB244m, up 3.3% q-q but down 48% y-y. The q-q performance reflects lower utility revenue, as some IU petrochemical customers in WHA's industrial estates continued to operate at low production levels, alongside a decrease in excessive charge revenues. However, WHAUP is likely to record higher profit sharing from the Dong Nai River project in Vietnam, supported by water volume growth from service area expansion. Meanwhile, utility profits from associates should improve, particularly at GHECO-1, which benefited from a reserved shutdown during 1-28 January 2025 to mitigate the impact of high coal costs. SPP margins are expected to remain stable, supported by slightly lower gas costs and tariffs. Additionally, we project an FX loss from the net USD assets extended to associates due to THB depreciation. Excluding FX and extra items, we estimate WHAUP's 1Q25 core profit at THB207m, representing growth of 1.8% q-q but a decline of 46.6% y-y.

#### Limited short-term impact from US reciprocal tariffs

We view the impact of US reciprocal tariffs on Thailand's and Vietnam's industrial estates as limited in the short term. While export-oriented tenants, particularly in sectors such as petrochemicals and electronics, may experience softer orders, overall production activities remain supported by diversified export markets and resilient domestic demand. Specifically, WHAUP stands to benefit from existing contracts, ongoing projects, and a strong investment pipeline. Moreover, the rapid expansion of AI data center investments—highlighted by the BOI's approval of THB240b in new projects last year—presents a significant growth opportunity for the power and utilities sector.

## Retain 2025 net profit forecast of 21% y-y growth

As of March 2025, WHAUP has an equity capacity of 980MW, with over 100MW of new projects scheduled for completion within the year, in addition to 264MW of total power capacity under construction and development. We maintain our 2025 net profit forecast, projecting 21% y-y growth, supported not only by the low base effect from 2024, but also by potential upside from improved IPP performance from the positive impact of lower coal costs on margins. Further earnings growth could be supported by additional new capacity beyond the current pipeline.

#### Maintain BUY rating with our target price of THB4.50

We maintain our BUY rating on WHAUP, supported by its strong growth outlook driven by continued expansion of WHA group's industrial estate business and accelerating data center investments in Thailand, which have not yet been factored into our current estimates.

TARGET PRICE THB4.50
CLOSE THB3.50
UP/DOWNSIDE +28.6%
PRIOR TP THB4.50
CHANGE IN TP UNCHANGED
TP vs CONSENSUS -13.7%

# **KEY STOCK DATA**

YE Dec (THB m)	2024	2025E	2026E	2027E	
Revenue	2,926	3,297	3,424	3,598	
Net profit	1,119	1,209	1,284	1,490	
EPS (THB)	0.29	0.32	0.34	0.39	
vs Consensus (%)	-	(11.1)	(12.1)	(6.0)	
EBITDA	1,096	1,558	1,634	1,751	
Recurring net profit	998	1,209	1,284	1,490	
Core EPS (THB)	0.26	0.32	0.34	0.39	
Chg. In EPS est. (%)	-	-	-	-	
EPS growth (%)	(30.9)	21.2	6.2	16.0	
Core P/E (x)	13.4	11.1	10.4	9.0	
Dividend yield (%)	7.1	7.1	8.6	8.6	
EV/EBITDA (x)	25.4	17.4	16.9	16.0	
Price/book (x)	1.0	1.0	0.9	0.9	
Net debt/Equity (%)	106.7	99.3	100.0	100.3	
ROE (%)	7.4	8.8	9.1	10.3	



Share price performance	1 Month	3 Month	12 Month				
Absolute (%)	(1.7)	(12.5)	(8.4)				
Relative to country (%)	0.5	2.2	7.9				
Mkt cap (USD m)			399				
3m avg. daily turnover (USD m)							
Free float (%)			28				
Major shareholder	WHA Industrial D	Development	Plc (69%)				
12m high/low (THB)			5.50/2.76				
Issued shares (m)			3,825.00				

Sources: Bloomberg consensus; FSSIA estimates



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#### Investment thesis

WHAUP is Thailand's largest utility company, offering comprehensive services to businesses in industrial estates. Also, it has the right to provide utility services to companies in WHA's industrial parks. WHAUP has continued expansion plans to increase its capacity for industrial water, electricity, and water treatment, corresponding with business operator growth in WHA's industrial estates in Thailand and Vietnam. It had an industrial water capacity of 166m CBM in 2024 and an electricity-generating capacity of 965MW as of end-2024, with 264MW under construction. By type, 57% was conventional energy and 43% was renewable. WHAUP aims to sign 1,185MW more PPAs by the end of 2025 and targets 2025 water volume sales of 173m CBM, up 4% y-y due to an expansion of WHA's industrial estates and customer base.

# Company profile

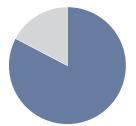
WHAUP is under the WHA group. Established in 2008, it provides comprehensive utility services to WHA's customers in industrial parks, with continued expansion plans to increase its capacity for industrial water and provide water treatment services to operators in and out of industrial estates.

www.wha-up.com

# Principal activities (revenue, 2024)

water business - 82.7 %

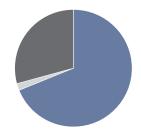
power business - 17.3 %



Source: WHA Utilities and Power

#### **Major shareholders**

- WHA Industrial Development Plc - 68.9 %
- WHA Holding Company 1.9 %
- Others 29.2 %



Source: WHA Utilities and Power

#### **Catalysts**

- The expansion outlook of WHA's industrial estates from expanding new customer base, rising water and electricity demand from factories in industrial estates, signing contracts to sell water to new customers, and higher wate charges.
- Insufficient water and electricity supply in Thailand and Vietnam, providing future growth opportunities for WHA's industrial estates.

#### Risks to our call

- Higher gas prices with lower electricity tariffs, pressured b government policies, resulting in significantly lower power margins
- Changes in state energy policies or regulatory risk.

# Source: FSSIA estimates Earnings sensitivity

- For every 1% increase in gas price, we estimate 2025 earnings would rise by 1.1%, and vice versa, all else being equal.
- For every 1% increase in interest rate, we estimate 2025 earnings would decline by 1.3%, and vice versa, all else being equal.

Source: FSSIA estimates

#### **Event calendar**

Date	Event
14 May 2025	1Q25 earnings results announcement

# **Key assumptions**

Key assumptions	2024	2025E	2026E
Electricity tariff	4.18	3.75	3.56
Electricity capacity - Equity PPA (MW)	1,000	1,200	1,500
Water sales & managed volume (MM3)	178	185	200
Equity income	845	764	846

Exhibit 1: WHAUP – 1Q25 earnings preview

Profit & Loss Statement	1Q24	2Q24	3Q24	4Q24	1Q25E	Change	
Year to Dec 31	(THB m)	(q-q %)	(y-y %)				
Revenue	721	722	769	713	719	0.8	(0.2)
Operating costs	(437)	(461)	(477)	(497)	(497)	0.0	13.7
SG&A	(61)	(63)	(117)	(103)	(81)	(20.8)	32.6
EBIT	222	198	175	113	140	23.7	(36.8)
Interest expense	(126)	(130)	(142)	(138)	(138)	(0.2)	9.7
Fx gain/loss	82	22	(420)	313	(14)	na	na
Associates' contribution	159	212	500	73	175	139.3	10.3
Pre-tax profit	487	333	85	231	254	9.9	(47.9)
Tax	(17)	(1)	(4)	5	(10)	(297.6)	(41.5)
Net profit	470	332	81	236	244	3.3	(48.1)
Non-recurring items	232	53	(479)	107	36	(66.1)	(84.3)
Core profit	388	310	560	204	207	1.8	(46.6)
Key Ratios (%)	(%)	(%)	(%)	(%)	(%)	(ppt)	(ppt)
EBITDA margin (%)	46.75	44.71	39.81	35.12	38.30	3.18	(8.46)
EBIT margin (%)	30.80	27.46	22.79	15.90	19.52	3.62	(11.28)
Net profit margin (%)	65.18	46.02	10.51	33.06	33.90	0.84	(31.28)
Tax rate (%)	3.51	0.29	4.31	(2.19)	3.94	6.13	0.43

Sources: WHAUP; FSSIA estimates

Exhibit 2: Key valuations as of 25 April 2025

Company	BBG	Rec	Share	Target	Up	Market	P	PE		E	PBV		EV/ EBITDA	
			Price	price	side	Сар	25E	26E	25E	26E	25E	26E	25E	26E
			(LCY)	(LCY)	(%)	(USD m)	(x)	(x)	(%)	(%)	(x)	(x)	(x)	(x)
Thailand														
Global Power Synergy*	GPSC TB	HOLD	30.75	30	(2)	2,584	23.3	24.1	3.4	3.3	8.0	8.0	13.1	13.6
Ratch Group*	RATCH TB	BUY	26.25	35	33	1,702	8.2	8.4	7.0	6.6	0.6	0.6	17.2	19.1
CK Power*	CKP TB	BUY	2.74	3.40	24	664	14.8	14.4	5.3	5.3	8.0	8.0	12.2	12.0
WHA Utilities and Power*	WHAUP TB	BUY	3.50	4.50	29	399	11.1	10.4	8.8	9.1	1.0	0.9	17.4	16.9
Gulf Development*	GULF TB	BUY	45.50	58	27	20,262	26.6	22.8	7.4	8.1	1.9	1.8	32.2	30.1
B Grimm Power	BGRIM TB	n/a	11.20	n/a	n/a	869	15.4	12.6	4.8	5.6	0.7	0.6	11.2	10.8
BCPG	BCPG TB	n/a	6.80	n/a	n/a	606	13.9	10.5	3.8	6.0	0.6	0.6	13.1	10.4
Energy Absolute	EA TB	n/a	2.20	n/a	n/a	486	5.0	6.4	6.9	4.3	0.4	0.4	9.3	12.6
Electricity Generating	EGCO TB	n/a	102.50	n/a	n/a	1,606	7.2	7.4	7.7	7.3	0.5	0.5	10.7	11.5
Banpu Power	BPP TB	n/a	7.00	n/a	n/a	635	6.3	5.7	6.6	6.8	0.4	0.4	7.4	7.4
Gunkul Engineering	GUNKUL TB	n/a	1.62	n/a	n/a	415	8.8	8.0	11.4	12.1	1.0	0.9	7.5	7.4
Absolute Clean Energy	ACE TB	n/a	1.35	n/a	n/a	403	13.5	7.5	6.2	10.2	8.0	0.7	8.8	5.6
Thailand avg						30,633	12.8	11.5	6.6	7.1	0.8	0.7	13.3	13.1

 $Sources: Bloomberg; \, {}^*\!FSSIA \ estimates$ 

# **Valuation**

Exhibit 3: Sum-of-the-parts target price

Cost of equity assumptions	(%)	Cost of debt assumptions	(%)
Risk free rate	3.0	Pre-tax cost of debt	5.0
Market risk premium	11.0	Marginal tax rate	20.0
Stock beta	1.1		
Cost of equity, Ke	12.9	Net cost of debt, Kd	3.8
Weight applied	30.0	Weight applied	70.0
WACC (%)	7.2		

DCF valuation estimate	MW	(%)	Equity Capacity	Туре	(THB m)	(THB/share)	Comments
Gheco-1 (Aug,2012) - Coal	660	35%	231	IPP	3,159	0.8	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
GLOW IPP (Jan,03)-Gas	713	5%	36	IPP	153	0.0	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
Houay Ho (Sep,99)-Hydro	152	13%	19	IPP	389	0.1	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
GJP NLL (May, 2013) - Gas	123	25%	31	SPP	1,145	0.3	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
GULF SOLAR (2014) - solar	1	25%	0	VSPP	4	0.0	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
WHA GUNKUL (2014) - solar	3	75%	2	VSPP	72	0.0	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
BGRIM POWER (Nov, 2016)	121	25%	30	Gas Co-gen	553	0.1	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
GULF VTP (2017)	130	25%	33	Gas Co-gen	1,177	0.3	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
GULF TS1 (2017)	130	25%	33	Gas Co-gen	2,687	0.7	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
GULF TS2 (2017)	130	25%	33	Gas Co-gen	2,654	0.7	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
GULF TS3 (2017)	125	25%	31	Gas Co-gen	2,346	0.6	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
GULF TS4 (2018)	125	25%	31	Gas Co-gen	2,509	0.7	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
GULF NLL2 (2019)	120	25%	30	Gas Co-gen	1,650	0.4	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
Solar Rooftop Projects	142	100%	142	Solar Rooftop	4,066	1.1	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
Chonburi Xean Energy (Waste Heat,2019)	7	33%	2		555	0.1	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
Water in Thailand (cmpd)	394	100%	394		7,820	2.0	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
Duong River - Vietnam Utilities	300	34%	102		1,009	0.3	WACC 7.2%, Risk free rate 3%, Risk premium 9%, Zero terminal growth
Net debt					(14,714)	(3.8)	
Residual ordinary equity					17,234	4.5	

Sources: WHAUP, FSSIA estimates

# **Financial Statements**

WHA Utilities and Power

Profit and Loss (THB m) Year Ending Dec	2023	2024	2025E	2026E	2027E
Revenue	2,782	2,926	3,297	3,424	3,598
Cost of goods sold	(1,965)	(1,993)	(1,877)	(1,984)	(2,093)
Gross profit	816	932	1,420	1,439	1,506
Other operating income	-	-	-	-	
Operating costs	(277)	(344)	(379)	(394)	(414)
Operating EBITDA	975	1,096	1,558	1,634	1,751
Depreciation	(436)	(508)	(517)	(588)	(659)
Goodwill amortisation	0	0	0	0	(
Operating EBIT	539	588	1,041	1,046	1,092
Net financing costs	(483)	(540)	(551)	(542)	(559)
Associates	1,380	944	764	827	1,006
Recurring non-operating income	1,418	966	774	837	1,017
Non-recurring items	188	121	0	0	C
Profit before tax	1,662	1,135	1,264	1,341	1,550
ax	(31)	(17)	(55)	(57)	(60)
Profit after tax	1,631	1,119	1,209	1,284	1,490
Minority interests	0	0	0	0	C
Preferred dividends	0	0	0	0	C
Other items	-	-	-	-	
Reported net profit	1,631	1,119	1,209	1,284	1,490
Non-recurring items & goodwill (net)	(188)	(121)	0	0	C
Recurring net profit	1,443	998	1,209	1,284	1,490
Per share (THB)					
Recurring EPS *	0.38	0.26	0.32	0.34	0.39
Reported EPS	0.43	0.29	0.32	0.34	0.39
OPS .	0.25	0.25	0.25	0.30	0.30
Diluted shares (used to calculate per share data)	3,825	3,825	3,825	3,825	3,825
Growth					
Revenue (%)	13.9	5.2	12.7	3.8	5.1
Operating EBITDA (%)	12.0	12.4	42.2	4.9	7.2
Operating EBIT (%)	7.1	9.0	77.0	0.5	4.4
Recurring EPS (%)	217.6	(30.9)	21.2	6.2	16.0
Reported EPS (%)	259.0	(31.4)	8.1	6.2	16.0
Operating performance					
Gross margin inc. depreciation (%)	29.3	31.9	43.1	42.0	41.8
Gross margin exc. depreciation (%)	45.0	49.2	58.8	59.2	60.2
Operating EBITDA margin (%)	35.1	37.4	47.3	47.7	48.7
Operating EBIT margin (%)	19.4	20.1	31.6	30.5	30.3
Net margin (%)	51.9	34.1	36.7	37.5	41.4
Effective tax rate (%)	11.1	8.7	11.0	11.0	11.0
Dividend payout on recurring profit (%)	66.3	95.8	79.1	89.3	77.0
nterest cover (X)	4.1	2.9	3.3	3.5	3.8
nventory days	-	_	-	-	
Debtor days	59.3	61.4	52.6	48.8	44.5
Creditor days	119.8	134.9	152.4	150.1	150.1
Operating ROIC (%)	6.7	6.9	11.3	10.2	9.9
ROIC (%)	6.4	5.1	5.7	5.8	6.3
OE (%)	11.0	7.4	8.8	9.1	10.3
ROA (%)	6.5	5.0	5.6	5.7	6.2
Pre-exceptional, pre-goodwill and fully diluted	3.3	0.0	0.0	<b>5</b>	3.2
Revenue by Division (THB m)	2023	2024	2025E	2026E	2027E
vater business	2,358	2,419	2,719	2,764	2,937
ower business	424	507	578	660	661
service income					

Sources: WHA Utilities and Power; FSSIA estimates

# **Financial Statements**

WHA Utilities and Power

WHA Utilities and Power					
Cash Flow (THB m) Year Ending Dec	2023	2024	2025E	2026E	2027E
Recurring net profit	1,443	998	1,209	1,284	1,490
Depreciation	436	508	517	588	659
Associates & minorities	1,380	944	764	827	1,006
Other non-cash items	(00)	2	- (8)	- 26	- 24
Change in working capital  Cash flow from operations	(90) <b>3,169</b>	∠ 2,451	(8) <b>2,482</b>	∠o 2,725	3,179
Capex - maintenance	(1,422)	(1,422)	(1,422)	(1,422)	(1,422)
Capex - new investment	(36)	(378)	(1,290)	Ó	Ó
Net acquisitions & disposals	640	(161)	0	0	0
Other investments (net)	-	-	-	-	-
Cash flow from investing	(818)	(1,960)	(2,712)	(1,422)	(1,422)
Dividends paid Equity finance	(956) 0	(956) 0	(956) 0	(956) 0	(1,148) 0
Debt finance	1,159	1,407	(519)	(10)	990
Other financing cash flows	109	(1,064)	(1,263)	(1,360)	(1,385)
Cash flow from financing	312	(613)	(2,738)	(2,326)	(1,543)
Non-recurring cash flows	-	-	-	-	-
Other adjustments	0	425	3,139	563	379
Net other adjustments	(2,089)	425	3,139	563	379
Movement in cash Free cash flow to firm (FCFF)	<b>574</b> 2,816.09	303	<b>171</b> 321.99	<b>(460)</b> 1,845.18	<b>593</b> 2,316.01
Free cash flow to firm (FCFF)	1,529.89	1,027.13 1,258.94	1,127.52	496.55	1,740.72
,	1,020.00	1,200.04	1,127.02	400.00	1,7 10.72
Per share (THB)  FCFF per share	0.74	0.27	0.08	0.48	0.61
-CFF per snare -CFE per share	0.74	0.27	0.08	0.48	0.61
Recurring cash flow per share	0.85	0.64	0.65	0.71	0.82
Balance Sheet (THB m) Year Ending Dec	2023	2024	2025E	2026E	2027E
Tangible fixed assets (gross)	9,631	9,632	11,054	12,476	13,898
Less: Accumulated depreciation	(1,964)	(1,963)	(2,480)	(3,068)	(3,727)
Γangible fixed assets (net)	7,668	7,670	8,574	9,408	10,170
ntangible fixed assets (net)	4,642	4,603	4,603	4,603	4,603
Long-term financial assets	- 14,961	14,800	- 14,800	14,800	14,800
nvest. in associates & subsidiaries Cash & equivalents	1,295	1,598	1,769	1,309	1,902
A/C receivable	500	484	467	448	429
nventories	0	0	0	0	0
Other current assets	245	307	346	359	377
Current assets	2,040	2,389	2,582	2,116	2,709
Other assets	507	495	495	495	495
Total assets	29,817	29,957	31,053	<b>31,422</b> 14,233	32,777 14 576
Common equity Minorities etc.	13,567 0	13,562 0	13,875 0	14,233	14,576 0
Fotal shareholders' equity	13,567	13,562	13,875	14,233	14,576
ong term debt	10,959	12,846	13,546	14,536	15,526
Other long-term liabilities	948	927	927	927	927
Long-term liabilities	11,908	13,773	14,473	15,463	16,453
A/C payable	529	569	567	582	597
Short term debt	3,699	3,219	2,000	1,000	1,000
Other current liabilities Current liabilities	114 <b>4,343</b>	123 <b>3,912</b>	139 <b>2,706</b>	144 <b>1,726</b>	152 <b>1,749</b>
Fotal liabilities and shareholders' equity	4,343 29,817	3,912	31,053	31,422	32,778
Net working capital	101	99	107	81	57
nvested capital	27,878	27,666	28,579	29,387	30,126
Includes convertibles and preferred stock which is be	ing treated as debt				
Per share (THB)					
Book value per share	3.55	3.55	3.63	3.72	3.81
angible book value per share	2.33	2.34	2.42	2.52	2.61
Financial strength					
let debt/equity (%)	98.5	106.7	99.3	100.0	100.3
let debt/total assets (%) Current ratio (x)	44.8 0.5	48.3 0.6	44.4 1.0	45.3 1.2	44.6 1.5
CF interest cover (x)	4.2	4.0	5.4	1.9	4.1
/aluation	2023	2024	2025E	2026E	2027E
Recurring P/E (x) *	9.3	13.4	11.1	10.4	9.0
Recurring P/E @ target price (x) *	11.9	17.3	14.2	13.4	11.6
Reported P/E (x)	8.2	12.0	11.1	10.4	9.0
Dividend yield (%)	7.1	7.1	7.1	8.6	8.6
	1.0	1.0	1.0	0.9	0.9
• •				1.4	1.3
Price/tangible book (x)	1.5	1.5	1.4		
Price/tangible book (x) EV/EBITDA (x) **	1.5 27.4	25.4	17.4	16.9	16.0
Price/book (x)  Price/tangible book (x)  EV/EBITDA (x) **  EV/EBITDA @ target price (x) **  EV/invested capital (x)	1.5				16.0 18.2 0.9

Sources: WHA Utilities and Power; FSSIA estimates

# Wha Utilities and Power PCL (WHAUP TB)

FSSIA ESG rating

★ ★ ★ ★

## **Exhibit 4: FSSIA ESG score implication**

61.21 / 100

Rating	Score	Implication
****	>79-100	Leading its industry peers in managing the most significant ESG risks which not only better cost efficiency but also lead to higher profitability.
***	>59-79	A mixed track record of managing the most significant ESG risks and opportunities relative to industry peers.
***	>39-59	Relevant ESG materiality matrix has been constructively addressed, well-managed and incorporated into day-to-day operations, in which targets and achievements are evaluated annually.
**	>19-39	Relevant ESG materiality matrix has been identified with key management in charge for progress to be followed up on and to provide intensive disclosure. Most targets are conventional and achievable.
*	1-19	The company has adopted the United Nations Sustainable Development Goals (UN SDGs), established sustainability management guidelines and fully complies with regulations or ESG suggested guidance from related organizations such as the SET and SEC.

Sources: FSSIA estimates

## Exhibit 5: ESG – peer comparison

	FSSIA			Domestic			Global ratings						Bloomberg		
	ESG score	DJSI	SET ESG	SET ESG Rating	CG score	AGM level	Thai CAC	Morningstar ESG risk	ESG Book	MSCI	Moody's	Refinitiv	S&P Global	ESG score	Disclosure score
SET100	67.71	5.69	4.38	4.05	4.77	4.43	4.02	Medium	57.34	BBB	22.70	60.82	67.31	1.19	35.34
Coverage	66.17	5.16	4.33	3.94	4.81	4.43	3.83	Medium	56.41	BBB	18.92	59.20	65.82	1.38	35.46
BGRIM	65.91		Υ	AAA	5.00	5.00	Certified	High	62.27	BBB		54.54	84.00		73.28
CKP	59.10		Y	AAA	5.00	5.00		High	66.67	BBB	-	69.84	54.00		62.95
GPSC	71.89	Υ	Y	AA	5.00	5.00	Certified	Medium	64.56	В		54.57	86.00		
TTW	53.68		Υ	AA	5.00	5.00		Medium	54.71	BB		36.69	49.00	2.74	64.60
WHAUP	61.21		Υ	AAA	5.00	5.00	Certified	Medium	67.11	ВВ		64.23			63.71

Sources: SETTRADE.com; FSSIA's compilation

## Exhibit 6: ESG score by Bloomberg

FY ending Dec 31	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
ESG financial materiality scores - ESG score	_	_	2.35	2.78	_
BESG environmental pillar score	_	_	1.53	1.56	_
BESG social pillar score	_	_	1.55	2.86	_
BESG governance pillar score	_	_	4.70	5.26	_
ESG disclosure score	58.24	60.69	63.49	62.64	63.71
Environmental disclosure score	55.18	55.51	57.26	57.26	57.26
Social disclosure score	38.36	45.37	45.77	43.20	46.40
Governance disclosure score	81.10	81.10	87.36	87.36	87.36
Environmental					
Emissions reduction initiatives	Yes	Yes	Yes	Yes	Yes
Climate change policy	No	Yes	Yes	Yes	Yes
Climate change opportunities discussed	No	No	No	No	No
Risks of climate change discussed	No	No	Yes	Yes	Yes
GHG scope 1	0	1	0	0	0
GHG scope 2 location-based	16	14	13	12	13
GHG Scope 3	_	_	2,166	2,087	2,163
Carbon per unit of production	_	_	_	_	_
Biodiversity policy	Yes	Yes	Yes	Yes	Yes
Energy efficiency policy	Yes	Yes	Yes	Yes	Yes
Total energy consumption	28	28	31	34	31
Renewable energy use	0	0	0	2	2
Electricity used	27	27	30	33	30
Fuel used - natural gas	_	_	_	_	_

 $Sources: Bloomberg; FSSIA's \ compilation$ 

Exhibit 7: ESG score by Bloomberg (cont.)

FY ending Dec 31	FY 2019	FY 2020	FY 2021	FY 2022	FY 2023
Fuel used - crude oil/diesel	No	No	No	No	No
Waste reduction policy	Yes	Yes	Yes	Yes	Yes
Hazardous waste	0	0	0	0	0
Total waste	4	8	8	7	8
Waste recycled	_	_	4	4	7
Waste sent to landfills	4	5	2	1	0
Environmental supply chain management	Yes	Yes	Yes	Yes	Yes
Water policy	Yes	Yes	Yes	Yes	Yes
Water consumption	_	_	_	_	_
Social					
Human rights policy	Yes	Yes	Yes	Yes	Yes
Policy against child labor	No	Yes	Yes	Yes	Yes
Quality assurance and recall policy	Yes	Yes	Yes	Yes	Yes
Consumer data protection policy	No	Yes	Yes	Yes	Yes
Equal opportunity policy	Yes	Yes	Yes	Yes	Yes
Gender pay gap breakout	No	No	Yes	Yes	Yes
Pct women in workforce	16	17	20	22	19
Pct disabled in workforce	0	0	0	0	0
Business ethics policy	Yes	Yes	Yes	Yes	Yes
Anti-bribery ethics policy	Yes	Yes	Yes	Yes	Yes
Health and safety policy	Yes	Yes	Yes	Yes	Yes
Lost time incident rate - employees	1	0	0	0	0
Total recordable incident rate - employees	_	0	1	0	0
Training policy	Yes	Yes	Yes	Yes	Yes
Fair remuneration policy	No	No	No	No	Yes
Number of employees – CSR	110	127	152	164	194
Employee turnover pct	11	9	7	_	_
Total hours spent by firm - employee training	1,755	2,463	3,871	3,941	5,376
Social supply chain management	Yes	Yes	Yes	Yes	Yes
Governance					
Board size	8	8	10	10	10
No. of independent directors (ID)	3	4	5	4	4
No. of women on board	2	2	2	2	2
No. of non-executive directors on board	4	4	6	9	9
Company conducts board evaluations	Yes	Yes	Yes	Yes	Yes
No. of board meetings for the year	11	8	7	10	8
Board meeting attendance pct	94	100	100	100	100
Board duration (years)	3	3	3	3	3
Director share ownership guidelines	No	No	No	No	No
Age of the youngest director	52	49	50	50	51
Age of the oldest director	67	68	69	70	71
No. of executives / company managers	9	8	8	9	8
No. of female executives	2	2	2	2	1
Executive share ownership guidelines	No	No	No	No	No
Size of audit committee	3	3	3	3	3
No. of ID on audit committee	3	3	3	3	3
Audit committee meetings	6	5	5	7	6
Audit meeting attendance %	94	100	100	100	100
Size of compensation committee	3	3	3	3	3
No. of ID on compensation committee	2	2	2	2	2
No. of compensation committee	5	3	4	4	4
No. or compensation committee meetings  Compensation meeting attendance %	100	100	100	100	100
Size of nomination committee	3	3	3	3	
	<b>3</b> 5	<b>3</b> 3	<b>3</b> 4	<b>3</b> 4	<b>3</b>
No. of nomination committee meetings					
Nomination meeting attendance %  Sustainability governance	100	100	100	100	100
Sustamability upvernance					

Sources: Bloomberg; FSSIA's compilation

# **Disclaimer for ESG scoring**

ESG score	Methodolog	у			Rating					
The Dow Jones Sustainability Indices (DJSI) By S&P Global	process base from the ann	ed on the com ual S&P Globa	transparent, rules-based panies' Total Sustainabili al Corporate Sustainabilit anies within each industry	Be a member and invited to the annual S&P Global Corporate Sustainability Assessment (CSA) for DJSI. Companies with an S&P Global ESG Score of less than 45% of the S&P Global ESG Score of the highest scoring company are disqualified. The constituents of the DJSI indices are selected from the Eligible Universe.						
SET ESG Ratings List (SETESG) by The Stock Exchange of Thailand (SET)	managing bu Candidates r 1) no irregula float of >150 up capital. So 70%; 2) inde wrongdoing r	isiness with trainust pass the ar trading of the shareholders, ome key disquenched to CG,	nsibility in Environmental ansparency in Governanc preemptive criteria, with e board members and ex , and combined holding ralifying criteria include: 1 tors and free float violatio social & environmental ir arnings in red for > 3 yea	ce, updated annually. two crucial conditions: tecutives; and 2) free nust be >15% of paid- ) CG score of below in; 3) executives' mpacts; 4) equity in	To be eligible for <b>SETESG inclusion</b> , verified data must be scored at a minimum of 50% for each indicator, unless the company is a part of DJSI during the assessment year. The scoring will be fairly weighted against the nature of the relevant industry and materiality. <b>SETESG Index</b> is extended from the SET ESG Ratings companies whose 1) market capitalization > THB5b (~USD150b); 2) free float >20%; and 3) liquidity >0.5% of paid-up capital for at least 9 out of 12 months. The SETTHSI Index is a market capitalisation-weighted index, cap 5% quarterly weight at maximum, and no cap for number of stocks.					
CG Score by Thai Institute of Directors Association (Thai IOD)	annually by t Thailand (SE	he Thai IOD, v	n in sustainable developm with support from the Sto s are from the perspectiv s.	Scores are rated in six categories: 5 for Excellent (90-100), 4 for Very Good (80-89), 3 for Good (70-79), 2 for Fair (60-69), 1 for Pass (60-69), and not rated for scores below 50. Weightings include: 1) the rights; 2) and equitable treatment of shareholders (weight 25% combined); 3) the role of stakeholders (25%); 4) disclosure & transparency (15%); and 5) board responsibilities (35%).						
AGM level By Thai Investors Association (TIA) with support from the SEC	treatment are transparent a out of five the criteria cover date (45%), a circulation of st exercised. The and verifiability	e incorporated and sufficiently e CG compon- AGM procedi and after the n ufficient informat second assesses; and 3) openne	which shareholders' rights into business operations y disclosed. All form impo ents to be evaluated annuures before the meeting (neeting (10%). (The first astion for voting; and 2) facilitations of the ease of attending mess for Q&A. The third involves, resolutions and voting res	and information is rtant elements of two ually. The assessment 45%), at the meeting sesses 1) advance on how voting rights can be eetings; 2) transparency is the meeting minutes that	The scores are classified into four categories: 5 for Excellent (100), 4 for Very Good (90-99), 3 for Fair (80-89), and not rated for scores below 79.					
Thai CAC By Thai Private Sector Collective Action Against Corruption (CAC)	establishmer policies. The (Companies de Declaration of a Certification, in managers and	nt of key control  Certification is eciding to become Intent to kick off cluding risk asse	Checklist include corruptions, and the monitoring and so good for three years. The answer of the a CAC certified member steen 18-month deadline to subsessment, in place of policy and stakeholders.)	and developing of  art by submitting a  mit the CAC Checklist for  id control, training of	The document will be reviewed by a committee of nine professionals. A passed Checklist will move for granting certification by the CAC Council approvals whose members are twelve highly respected individuals in professionalism and ethical achievements.					
Morningstar Sustainalytics	based on an risk is unmar regulatory filing information, co.	assessment on naged. Sources gs, news and oth mpany feedback	sk rating provides an over of how much of a compan to be reviewed include corporer media, NGO reports/webs k, ESG controversies, issuer f	y's exposure to ESG orate publications and ites, multi-sector	A company's ESG risk rating score is the sum of unmanaged risk. The more risk is unmanaged, the higher ESG risk is scored.  NEGL Low Medium High Severe					
ESG Book	The ESG scc positioned to the principle helps explain over-weightir	outperform or of financial ma future risk-ac	sustainable companies this ver the long term. The me ateriality including informa djusted performance. Mat th higher materiality and i	0-10 10-20 20-30 30-40 40+  The total ESG score is calculated as a weighted sum of the features scores using materiality-based weights. The score is scaled between 0 and 100 with higher scores indicating better performance.						
MSCI	MSCI ESG ra	atings aim to r	measure a company's mand laggards according to t						nethodology to	
	AAA	8.571-10.000	)	·		, ,				
	AA	7.143-8.570	Leader:	leading its industry in ma	anaging the most si	gnificant ESG ris	sks and opportunitie	es		
	Α	5.714-7.142		a mixed or unexceptiona	al track record of ma	anaging the mos	t significant ESG ris	sks and opportu	nities relative to	
	BBB	4.286-5.713	_	industry peers	ar track record or me	anaging the moo	t organicant 200 no	ono ana oppona	illoo roidavo to	
	BB P	2.857-4.285								
	B CCC	1.429-2.856 0.000-1.428	Laggard:	lagging its industry base	d on its high expos	ure and failure to	manage significan	t ESG risks		
Moody's ESG			ree to which companies t	take into account ESG of	niectives in the d	efinition and in	nnlementation of	their strategy	nolicies It	
solutions	believes that	a company in	itegrating ESG factors into or shareholders over the r	o its business model and						
Refinitiv ESG rating	based on pul	blicly available	and objectively measure e and auditable data. The ta publicly. <i>(Score ratings a</i>	score ranges from 0 to	100 on relative E	SG performan	ce and insufficie	nt degree of ti		
S&P Global			re is a relative score mea in the same industry clas				of ESG risks, op	portunities, an	d impacts	
Bloomberg	ESG Score  Bloomberg score evaluating the company's aggregated Environmental, Social and Governance (ESG) performance. The score is based on Bloomberg's view of ESG financial materiality. The score is a weighted generalized mean (power mean) of Pillar Scores, where the weights are determined by the pillar priority ranking. Values range from 0 to 10; 10 is the best.									

Rating regarding the sustainable development of Thai listed companies, both on the SET and MAI, are publicly available on the website of the Securities and Exchange Commission of Thailand (SEC). Currently, ratings available are 1) "CG Score"; 2) "AGM Level"; 3) "Thai CAC"; and 4) THSI. The ratings are updated on an annual basis. FSSIA does not confirm nor certify the accuracy of such ratings.

Source: FSSIA's compilation

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#### History of change in investment rating and/or target price



Date	Rating	Target price	Date	Rating	Target price	Date	Rating	Target price
19-May-2022 05-Sep-2024	BUY BUY	4.50 5.30	31-Oct-2024 10-Feb-2025	HOLD BUY	5.30 4.50	-	-	-

Songklod Wongchai started covering this stock from 05-Sep-2024

Price and TP are in local currency

Source: FSSIA estimates

Company	Ticker	Price	Rating	Valuation & Risks
WHA Utilities and Power	WHAUP TB	THB 3.50	BUY	<ul> <li>Higher gas prices with lower electricity tariffs, pressured by government policies, resulting in significantly lower power margins</li> </ul>
				Changes in state energy policies or regulatory risk.

Source: FSSIA estimates

#### **Additional Disclosures**

Target price history, stock price charts, valuation and risk details, and equity rating histories applicable to each company rated in this report is available in our most recently published reports. You can contact the analyst named on the front of this note or your representative at Finansia Syrus Securities Public Company Limited.

All share prices are as at market close on 25-Apr-2025 unless otherwise stated.

#### RECOMMENDATION STRUCTURE

#### Stock ratings

Stock ratings are based on absolute upside or downside, which we define as (target price\* - current price) / current price.

BUY (B). The upside is 10% or more.

HOLD (H). The upside or downside is less than 10%.

REDUCE (R). The downside is 10% or more.

Unless otherwise specified, these recommendations are set with a 12-month horizon. Thus, it is possible that future price volatility may cause a temporary mismatch between upside/downside for a stock based on market price and the formal recommendation.

\* In most cases, the target price will equal the analyst's assessment of the current fair value of the stock. However, if the analyst doesn't think the market will reassess the stock over the specified time horizon due to a lack of events or catalysts, then the target price may differ from fair value. In most cases, therefore, our recommendation is an assessment of the mismatch between current market price and our assessment of current fair value.

#### **Industry Recommendations**

Overweight. The analyst expects the fundamental conditions of the sector to be positive over the next 12 months.

Neutral. The analyst expects the fundamental conditions of the sector to be maintained over the next 12 months.

Underweight. The analyst expects the fundamental conditions of the sector to be negative over the next 12 months.

#### **Country (Strategy) Recommendations**

**Overweight (O).** Over the next 12 months, the analyst expects the market to score positively on two or more of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

**Neutral (N).** Over the next 12 months, the analyst expects the market to score positively on one of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.

**Underweight (U).** Over the next 12 months, the analyst does not expect the market to score positively on any of the criteria used to determine market recommendations: index returns relative to the regional benchmark, index sharpe ratio relative to the regional benchmark and index returns relative to the market cost of equity.