

May 2024







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"The Ultimate Solution for Sustainable Growth"







- I. WHA Group Overview
- **II.** 1Q2024 Operating Performance
- III. 1Q2024 Financial Performance
- IV. Appendix

Key Milestone





- ■WHA Group creates 4 business hubs: Logistics, Industrial Development, **Utilities & Power** and Digital platform
- ■HREIT IPO

NEW ERA FOR WHA

- WHA Utilities and Power Plc. is listed in SET
- ■WHA group develops its first industrial zone in Nghe An Province, Vietňam
- An JSC celebrates Industrial Zone -

SPREADING WINGS

- WHA ID and IRPC signs Shareholders Agreement to Develop "WHA Industrial Estate Rayong" in EEC
- WHA Hemaraj Nghe groundbreaking ceremony for WHA Nghe An Phase 1

THE YEAR OF **EXPONENTIAL GROWTH**

- · WHA Logistics jointly invested with Alibaba, granting 232 rai in Chachoengsao for an e-commerce special economic zone
- · Chonburi Clean Energy (CCE), a joint venture company has signed the PPA with PEA for a contracted capacity of 6.90 MW with a contractual term of 20 vears

THE YEAR OF **TRANSFORMATION**

- · Establish a footprint in Vietnam - WHA Industrial Zone 1 -Nghe An
- Undertake digital innovation and transformation journey : Platform-aboveinfrastructure

MOVING FUTURE FORWARD

- New Mega Logistics Projects at Theparak with building area ~400.000 sa.m
- 2nd Industrial Estate in Vietnam in Thanh Hoa Province. Vietnam
- Continuing a Journey digital innovation and transformation journey and cultural chánge

INNOVATIVE WORKPLACE

· Build innovativedriven culture, workplace and workforce to create new revenue streams, innovative products and services to serve customer's demand, making WHA superior to competitors

DATA-DRIVEN ORGANIZATION

- Turn data assets into a competitive advantage.
- Historical industrial land deal by BYD. enforcing WHA ID as Thailand's **Automotive Cluster**
- Listed as "Industry Mover" in S&P Global Yearbook and received SET **Awards**

TURNING TO TECH COMPANY

- Build Digital-Ready Culture in Organization
- Optimizing practices with AI and Data Insights to lead in the dynamic business landscape, ensuring sustained superiority
- Enhance productivity & efficiency lead to better decision making by using AI&ML

Source: Company

WHA GROUP AT-A-GLANCE



1Q2024 Performance Highlights

+61%

YoY Growth

Revenue & Share of profit

3,930

Million THB

rotit

1,365

Industrial

Estates

YoY Growth

Net profit

Million THB

EBITDA

2,213

YoY Growth

Net IBD/Equity

0.97

Times



Asset under Owned & Managed

2,960,056 SQM

New Projects/ Net Rent

29,623¹ san

Short-Term Contracts

33,455 sqm

WHA
Industrial
Development

Land for Industrial Development

77,600 Rai 13/2

Land Sale

629

(TH 575 Rai, VN 55 Rai)

Outstanding LOI/ MOU

715

(TH 669 Rai, VN 46 Rai)

Backlog

1,087 (TH 1,052 Rai, VN 34 Rai)



Utilities Sales & Management

40/3 Million M³

Total Secured PPA/4

917 Equity MW

Installed Capacity

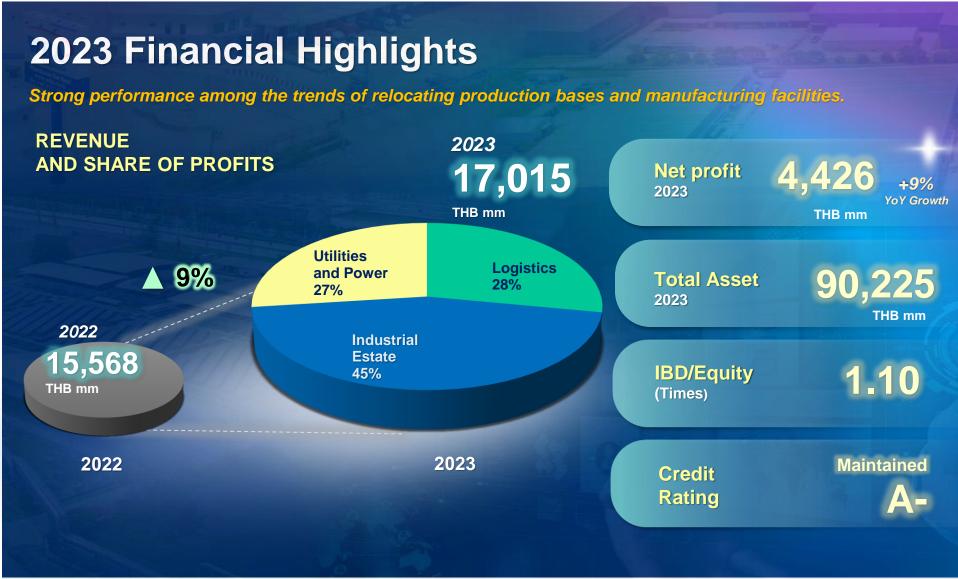
675 M



>38 Digital Transformation Projects

WHA GROUP AT-A-GLANCE





WHA GROUP AT-A-GLANCE







Asset under Owned & Managed

3,145,000 sqm

New Projects/ Net Rent

Asset

Monetization

200,000 /1 SQM 213,000 SQM



Total Land Sales

2,275

1,650 **Thailand** 625 Vietnam



Utilities Sales & Management Volume

178/2

Secured PPA Equity MW

1.000

Empower WHA group and Deliver **New Businesses**





Remarks: /1 Including net rent of BTS, RBF and RBW

WHA Strategic Locations



WHA 80+ STRATEGIC LOCATIONS IN THAILAND AND VIETNAM

WHA is a Key Player in the Development of **Eastern Economic Corridor (EEC)**

1 WHA Logistics Parks

- 1, WHA Mega Logistics Center Bangna-Trad km.18 2. WHA Mega Logistics Center
- Banana-Trad km.19 3, WHA Mega Logistics Center
- Bangna-Trad km.23 (Project 1, 2, 3 & Inbound)
- 4. WHA Mega Logistics Center Chonlahampichit km.3 (Project 1 & 2)
- 5, WHA Mega Logistics Center Chonlahampichit km.4
- 6. WHA Mega logistics Center Chonlahampichit km,5
- 7. WHA Mega Logistics Center Ladkrabang
- 8. WHA Mega Logistics Center Wangnoi 61 9, WHA Mega Logistics Center Saraburi
- 10. WHA Mega Logistics Center Panthona, Chonburi
- 11. WHA Mega Logistics Center Laemchabang (Project 1 & 2)
- 12. WHA Mega Logistics Center Rama II, km,35
- 13, WHA Mega Logistics Center Lampoon
- 14. WHA Mega Logistics Center Khon Kaen
- 15. WHA Mega Logistics Center Kabinburi
- 16. WHA Mega Logistics Center Suratthani
- 17. WHA Mega Logistics Centers Wangnoi 62
- 18. WHA CENTRAL Mega Logistics Center Wananoi 63
- 19, WHA Mega Logistics Center Lum Luk Ka
- 20. WHA E-Commerce Park
- 21. WHA Mega Logistics Center Theparak KM. 21
- 22. WHA Logistics Park 1 (WHA LP1)
- 23. WHA Logistics Park 2 (WHA LP2)
- 24. WHA Logistics Park 3 (WHA LP3)
- 25. WHA Logistics Park 4 (WHA LP4)

Built-to-Suit Factories and Warehouses

- 1. Consumer Goods Distribution Center
- 2. Healthcare Air-Con Distribution Center
- 3. Hazardous Goods Distribution Center
- 4. Ladkrabang Logistics Center (2 Phoses)
- 5. Manufacturers in WHA SIL Diaper Manufacturing
 - Camera Part Manufacturing

2 Built-to-Suit Factories and Warehouses (continue)

- 6. Consumer Goods (D.C. Electronics)
- 7. Manufacturers in Industrial Estate
- 8. Manufacturer in WHA CIE 1
- EV Automotive Part Manufacturing
- 9. Manufacturer in WHA ESIE 1 - Automotive Part Manufacturing
- 10. Manufacturer in WHA ESIE 2 - Packaging & Strapping System
- Manufacturina 11. Manufacturer in Theparak 21
- Automotive Part Manufacturing

3 Industrial Estates

- WHA Chonburi Industrial Estate 1 (WHA CIF 1)
- WHA Chonburi Industrial Estate 1 (WHA CIE 2)
- Eastern Seaboard Industrial Estate (Rayong) (ESIE)
- D. WHA Eastern Seaboard Industrial Estate 1 (VVHA ESIE 1)
- WHA Eastern Seaboard Industrial Estate 2 (WHA ESIE 2)
- WHA Eastern Seaboard Industrial
- Estate 3 (VVHA ESIE 3) G. WHA Eastern Seaboard Industrial
- Estate 4 (WHA ESIE 4) H. WHA Eastern Seaboard Industrial
- Estate 5 (VVHA ESIE 5) WHA Eastern Industrial Estate
- (Map Ta Phut) (WHA EIE) WHA Rayong Industrial Land (VVHA RIL)
- WHA Rayong 36 Industrial Estate
- (WHA Rayong 36) WHA Rayong Industrial Estate
- (VVHA IER) M. WHA Saraburi Industrial Zone (VVHA SIL)
- N. WHA Industrial Zone 1 Nahe An.
- O. WHA Smart Technology Industrial Zone 1 - Than Hoa, Vietnam
- WHA Smart Technology Industrial Zone 2 - Than Hoa, Vietnam
- Q. WHA Smart Technology Industrial Zone - Quang Nam, Vietnam

4 WHA Utilities & Power

WHAUP's water and wastewater treatment plants are positioned in all WHA's Industrial Estates and projects

- a. Ha Noi
- b. Nahe An

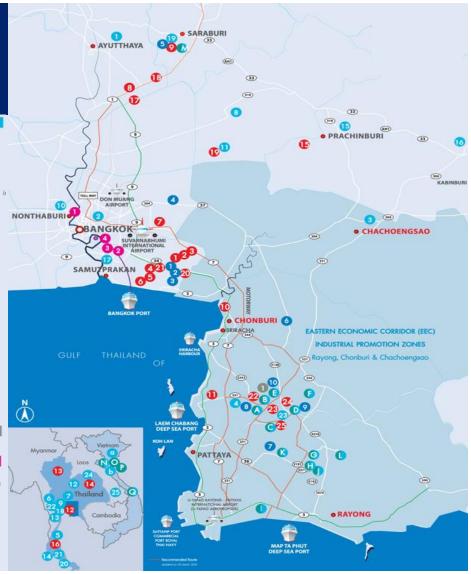
WHAUP's power projects are located in the following provinces:

- Ayudhya
- Bangkok
- Chachoengsao
- Chonburi
- Chumphon
- Lopburi Nakhon Nayok
- Nakhon Pathom
- 10. Nonthaburi
- 11 Pathum Thani
- 12. Phetchabun
- 13. Petchaburi
- 1.4 Physical
- 15 Prochinburi
- 16. Sa Kaeo 17. Samut Prakarn
- 18. Samut Sakhon
- 19. Saraburi
- 20. Sonakhla
- 21 Suratthani
- 22. Ratchaburi
- 23. Rayong
- 5 Digital
- 25. Attapeu, Laos

1. SUPERNAP (Thailand)

6 Business Complex

- SI Infinite I
- WHA Tower and WHA Banana **Business Complex** @Premium
- Quant Sukhumvit 25



Awards and Recognitions



AWARDS AND RECOGNITIONS

WHA



WHA Group "The People Awards 2024"



จรีพร จารุกรสกุล ซีอีโอดับบลิวเอชเอ ได้รับรางวัล The People Awards 2024 บุคคลต้นแบบที่พร้อมก้าวช้ามทุกซีดจำกัด

"The People Awards 2024" from

The People, a leading online media, given to role models who have transcended their own limits and inspired others to soar towards a brighter future

WHA Group "Corporate ESG Bond of the Year" from ThaiBMA Best Bond Awards 2023



Under the concept "People Go Beyond"





WHA Group "Best Sustainability-Linked Bond in Thailand" at The Asset Triple A Sustainable Finance Awards 2024



WHA Group "The CEO of The Year 2023" from Bangkokbiznews

2023 AWARDS

WHA Group "Best Sustainability Excellence Award" at SET Awards 2023



Sustainability Excellence category in SET Awards 2023 for market capitalization of >30,000-100,000 million baht

WHAUP "Commended
Sustainability Excellence Award" at
SET Awards 2023



Sustainability Excellence category in SET Awards 2023 for market capitalization of >10,000-30,000 million baht WHA Group
"Prime Minister Award:
Innovation for Global
Challenge"



Outstanding Award at EIA Monitoring Awards 2023



Kincentric Best Employer Award Thailand 2023



WHA Group & WHAUP "Honorary Award for Chief Innovation Officer"



WHA Industrial Estates Receive 6 Eco Industrial Town Awards at the Eco Innovation Forum 2023



2023 Achievements





Sustainability Highlights



Sustainability Awards & Recognitions

2023 SET Awards

"Sustainability Excellence Category"

WHA Group "Best Sustainability Awards"



For market capitalization of >30,000-100,000 million baht

WHAUP
"Commended Sustainability
Awards"



For market capitalization of >10,000-30,000 million baht

SET ESG Ratings 2023

WHA Group & WHAUP Attained the Highest
Rating of "AAA" in SET ESG Ratings 2023, Listed
as a Sustainable Stock for the 4th Consecutive Year /1





5-Star CGR Rating

Corporate Governance Report of Thai Listed Companies in

5-Stars " Excellent "

criteria from Thai Institute of Directors Association (IOD) over five consecutive years (since 2018-2023)



Assessment Score of AGM Checklist 2023

Level "5-Rating", obtaining a full score of 100 from the Thai Investors Association (TIA) in over three consecutive years (since 2021-2023)



Business 1 Transparency

Certified as member of Thai Private Sector Collective Action Against Corruption ("CAC") for three consecutive times. (since year 2014-2026)



S&P Global Sustainability Yearbook 2024

WHA Group has been recognized a Sustainability Yearbook Member for 2 consecutive years with S&P Global CSA Score 2023; 76/100





ESG Emerging & ESG 100

Outstanding performance in sustainable development



WHA Group & WHAIR are recognized as one of the top 15 securities in the "ESG Emerging" list



WHA Group, WHAIR & WHART ¹² are listed in the "ESG 100" Securities

Climate Change Management







- I. WHA Group Overview
- **II.** 1Q2024 Operating Performance
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1Q2024 Financial Highlights



Normalized Revenue and Share of Profit					
1Q 2024					
THB 3,776 mm ▲		56% ▲			
Rental Properties Business		Land Business and Sale of Properties			
1Q 2024		1Q 2024			
THB 297 mm 🛕	19%🛕	THB 2,133 mm 🛕	103% 🛕		
 Due to increasing in leasable area as well as occupancy rate of RBF/W and new contribution from Green Logistics 		 Sale of Industrial Land: THB 2,130 mm: Increase by 102% from higher number of land transfer both Thailand and Vietnam from 281 Rai in 1Q203 to 581 Rai in 1Q2024 			
		19200 to 001 Raim 192024			
Utilities B	usiness	Power B	usiness		
Utilities B					
		Power B			
1Q 20	23% oth Thailand and Vietnam evious year	Power B	20% (scheduled maintenance shutdown pread from lower gas price as well as acce claim during 1Q2024 e, mainly due to lower revenue from		







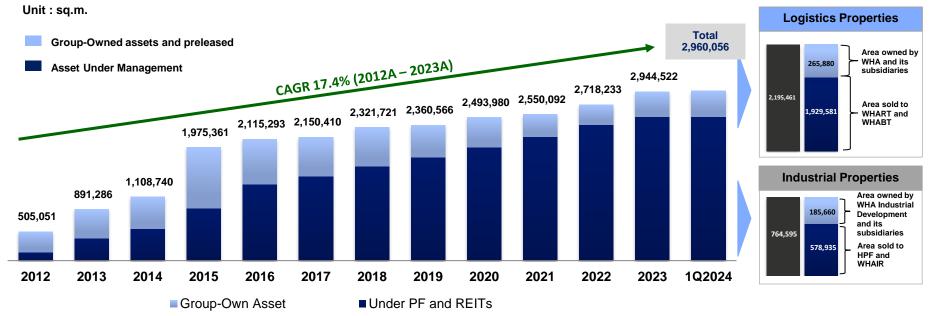


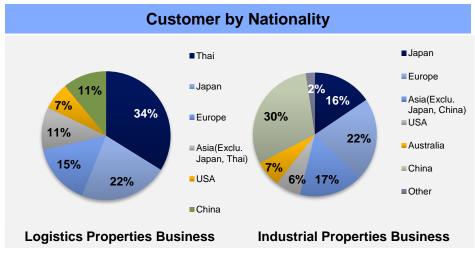


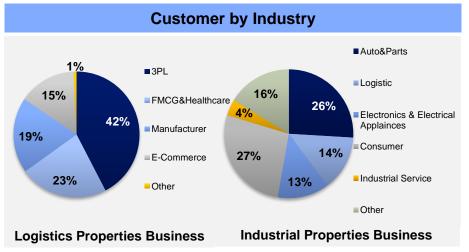
1Q2024 Operating Performance

Logistics Business









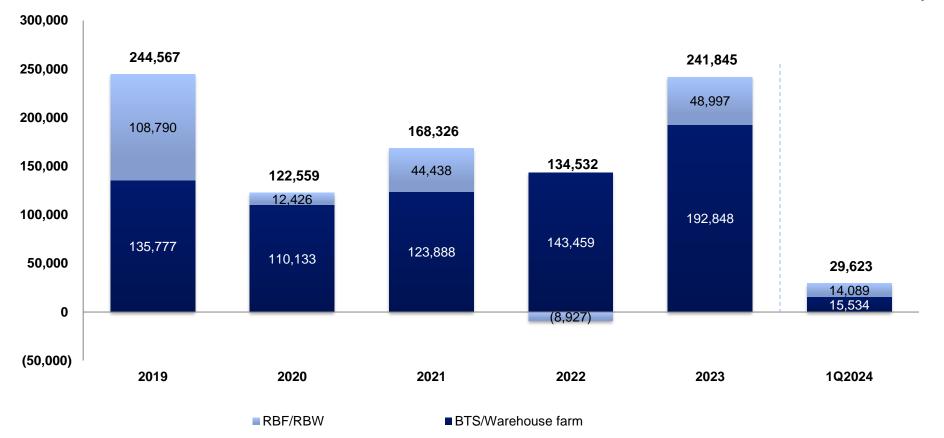
Remark: Figures as of 31 March 2024



New Projects & Rent Owned

Logistics Business Experiences Continuous Growth in Build-to-Suit (BTS) Warehouses and Factories to Serve Major Clients in the Consumer Goods, 3PL, and Automotive Sectors

Unit: Sq.m.



Remark: Figures as of 31 March 2024



2023 Achievements



Strengthen logistic business through partnership – Purchased 50% shares of GC Logistics Company Limited as a crucial move for further business expansion



Stone Laying at its new WHA Mega Logistic Center Bangna-Trade KM.23 (inbound) – New Built-to-Suit facility with 46,000 sqm building area with Dynapac Road Equipment as one of the first customers



Expansion via partnership, secured more demands and expanded office solutions range



Secured – 13,000 sqm Built-to-Suit with Webasto (top 100 automotive suppliers from Germany) at WHA Mega Logistics Center Theparak Km. 21



Expanding office solutions to medical center – construction started since May 2023 with total sqm of 6,900 sqm



Secured – 30,000 sqm Built-to-Suit project with YCH, supply chain solutions from Singapore



Secured – 57,000 sqm of Built-to-Suit project for animal feed company to operate as warehouse compound (as of March 2024)







Expand Domestically and Internationally

Domestic Expansion

Extend Our Credentials to Capture Demands in Strategic Locations and Beyond By:

- Offer comprehensive solutions
- Product diversifications to include smaller scale facilities
- Expand locations to cover other major provinces and along major infrastructure development projects

Strategic Locations

- Bangkok and Vicnity and EEC Areas
- 2nd Tier Cities in upcountry areas

Embrace Sustainable Practice Through Green Buildings

Meet increasing client's needs who value sustainability and ESG

















Better Environment

International Expansion

Focus on Vietnam Expansion

- Explore greenfield projects with target customers including E-Commerce, FMCG, electronics, and export-related industries)
- Explore M&A opportunities through leveraging WHA Group networks as well as partnership with strategic players
- Building team capabilities and relationship with local authorities and potential customers

LE KHOI CONG

ROUND BREAKING CEREMONY OF DH LOGISTICS PROPERTY MINH QUANG VIETNA RENTAL FACTORY AND WAREHOUSE PROJECT HUNG YER 21/02/2024



"DPL Vietnam Minh Quang" logistics facility in Vietnam



Emphasis on Partnerships and Innovations

Maintain and Establish Strategic Partnerships

- Maintain strong relationships with existing customers
- Explore and establish long-term partnership with global/regional players







Enhance through Innovations & Technologies

- Digitalization of internal processes including construction management, operation management, business models and financials
- Embracing technologies into product/service offerings to enhance user's experiences









Smart Warehouse

Maintenance Management App







Green Logistics

1Q2024 Achievements

 Our mission to boost EV adoption especially in Thai market is beginning to take shape

Secured Contracts for Commercial EV

176 Vehicles



Strategic Initiatives & 2024 Targets

Develop partnership with aftermarket, OEM, and mobility platform/car-rental companies



1,000 Vehicles



Launch new products e.g., new EV models, swapping solution, and digital products that support the EV ecosystem

Provide new services in addition to BaaS and Lumpsum services to deliver the best customer experience









Expand sales channels through reputable fleet operators, manufacturers, construction companies, and others





UPCOMING High-Value Projects in 2024













Target Deliverables

2024 Target

Target New Projects
/New Contracts

Note: *Includes BTS, RBF and RBW

Domestic: 165,000 sqm

200,000

International: 35,000 sqm

Sq.m.*





Assets Monetization to REITs

Surge in Target of Asset Monetization to WHART

2023

142,900 sqm

тнв **3,566** mm

Built-to-Suit Warehouse/ General Warehouse in





2024 Target

213,000 sqm

тнв 5,290 mm

Built-to-Suit Warehouse/ General Warehouse

173,000 sqm

тнв **4,259** mm

Own Asset: 43%

JV Asset: 57%

WHAIR

WHART

Ready-built Factory/ Warehouse

40,000 sqm

тнв 1,031 mm

• Own Asset: 100%

WHA Office Solutions



WHA Office Solutions

Expand Office Solutions to More Segments

- Create a comprehensive ecosystem for tenants including retail, health, and wellness
- Leverage extensive customer base of WHA Group to reach target customers
- Emphasize key competitive edges of WHA Office Solutions

Key Competitive Edge



Suitable for All Businesses



Design Locations



Mixed-Use Concept

Total Office Space > 120,000 Sq.m./1

Properties Readily Available for Rent

WHA TOWER



Available for Rent in 2021 > 52,000 sqm

WHA BANGNA **BUSINESS COMPLEX**



Available for Rent in 2020 > 9,800 sqm





Available for Rent in 2020 > 3,800 sqm

SJ INFINITE I



Available for Rent in 2020 > 42,000 sgm

QUANT SUKHUMVIT 25



Available for Rent in 2023 9,900 sgm

Projects Under Development



RETAIL (3,000 SQM)

- · Lifestyle, modern, and loft retail
- Located nearby Surasak BTS
- Expected completion by early 2024

MEDICAL CENTER @ SATHORN (6,900 SQM)



Started construction since May 2023



Industrial Estate Business







6%

7%

Extend Our No. 1 Position and Broaden Vietnam on National Basis



Our Customers in Thailand and Vietnam

As of 31 March 2024

,031
Customers ¹¹

1,613

Contracts /2

Recent Customers













China 20% 62%

% of Number of Customers by Nationality*

Japan

Thailand

Overall Portfolio 2020-1Q24

28%

15%

% of Number of Customers by Industry*

Overall Portfolio		2020 – 1Q2
Automotive	31%	26%
Consumer	17%	27%
Electronics & Electrical Appliances	10%	16%

Remark: *Accumulated customers and contracts based on land sales. land rent in Thailand and Vietnam

^{/1} Including 25 customers in Vietnam ^{/2} Including 27 contracts in Vietnam

Remark: ⁽¹⁾ Information as of 31 March 2024, equivalently to 12,400 hectares including 55,600 Rai (8,900 Hectare) operating and under development in Thailand and Vietnam ⁽²⁾ Include land under development which plan to be completed in 2024

WHA ESIE2 Phase 2

^{/3} Including WHA IER (under construction)

⁴ WHA CIE1, WHA CIE2, ESIE, WHA ESIE1, WHA ESIE2, WHA ESIE3, WHA ESIE4, WHA RIL, WHA SIL, WHA EIE, WHA Rayong 36, WHA IER (under construction)





Industrial Estate Business – Operating Performance

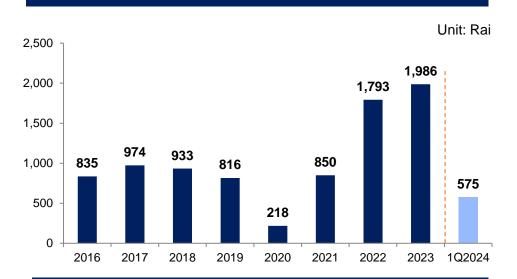






The sale of land continued to increase and land transfer doubled YoY in 1Q2024

Land Sales in Thailand



No.1 Domestic Industrial Market Share



Source: CBRE Bangkok property report as of 2023 plus internal information.

Customer Breakdown/1

Breakdown by Nationality

	Overall Portfolio	From 2020 – 1Q24
Japan	28%	6%
Thailand	16%	8%
China	19%	61%
Europe	9%	2%
USA	7%	5%
Taiwan	5%	8%
Korea	2%	2%
Others	12%	8%
Total	100%	100%

Breakdown by Industry

	Overall Portfolio	From 2020 – 1Q24
Auto	32%	29%
Consumer	18%	30%
Electronics & Electronical Appliances	9%	13%
Steel & Metal	8%	4%
Chemical & Petrochemical	7%	1%
Logistics	4%	2%
Others	22%	21%
Total	100%	100%

Remark: /1 By number of customers



Extend Our No. 1 Position in Thailand

Sustain Growth in Industrial Land Development and Land Sales

Continuously Develop NEW INDUSTRIAL ESTATES



8,800 Rai Industrial Land Under Development



Started construction since 4Q'22 Infrastructure & 1st plot ready by 2Q'24



Started construction since in 1Q'24 Land grading & 1st plot ready by 3Q'24



To obtain EIA Approval in 4Q'24
To start construction in 1Q'25



EIA was approved
To start construction in 2Q' 24



To obtain EIA Approval in 4Q'24
To start construction in 4Q'24

WHA ESIE5 (3,400 Rai)

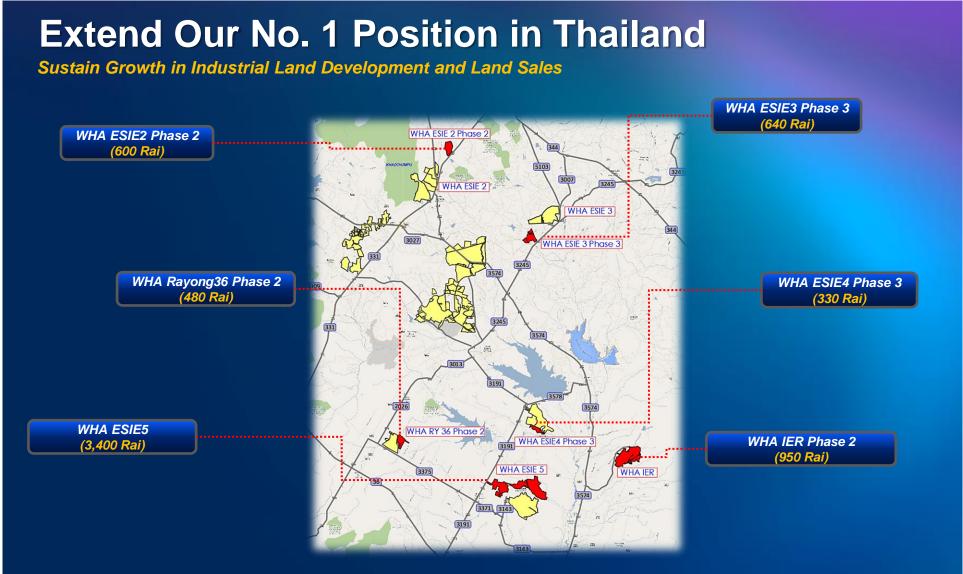
To obtain EIA Approval in 1Q'25 To start construction in 1Q'25

WHA SIL2 (2,400 Rai)

To obtain EIA Approval in 2026 To start construction in 2026

Remark: Information as of March 2024







Extending Our No. 1 Position

Step toward Thailand's vision to become Southeast Asia's hub for EVs

Thailand's Automotive Cluster

WHA Group has been developing the automotive cluster at our flagship WHA Eastern Seaboard Industrial Estate 1 & 2 and Eastern Seaboard Industrial Estate (Rayong).

We are home for more than 315 automobile manufacturers from all over the world /1



WHA Seals 250-rai
Deal with Changan
Automotive

"To Set Up EV Production Base for Worldwide Export at WHA ESIE 4"

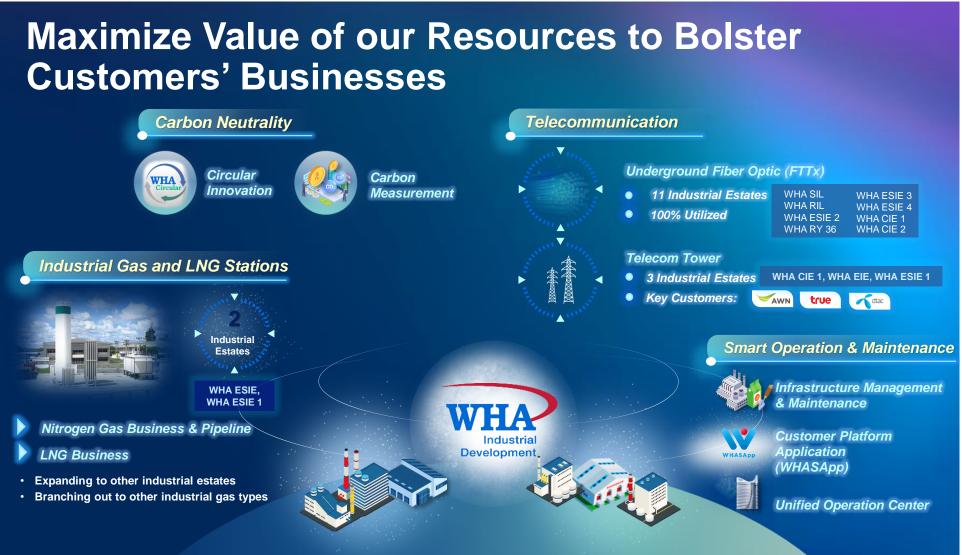


More Automotive and EV Supply Chain Coming to Thailand



Industrial Estate Business - Thailand





Remark: Information as of September 2023



WHA IER - Phase 1

Full facilities to support Thailand to become Southeast Asia's hub for S-Curve Industry

WHA IER Phase 1 (1,200 Rai)

Overall Work Progress as of 26 Mar 2024



- Started construction since Q4' 2022
- First batch of transfer by early Q2' 2024



46 km. to Map ta Phut Deep Sea Port

53.6 km. to U-tapao Airport

69 km. to Laem Chabang Deep Sea Port

139 km. to Suvarnabhumi Airport





Water Supply





30-35 Meters Width Concrete Road



Stable Power Supply 22kV and 115kV by PEA



8,200 m³/day of Industrial Water



5,200 m³/day of Waste Water Treatment Capacity



Centralizing System for Environmental and Security Monitoring

Air Quality Monitoring Station





Well-Positioned to be Regional Manufacturing Hub



Strategic Location

- Strategic location
- Abundant industrial land (long-term lease)
- Neutral political situation

Infrastructure Connectivity

Integrated Transportation Infrastructure (deep-sea ports, highways, railways)

Supporting Industries & Integrated Supply Chain

- Comprehensive supply chain for target industries
- · Industrial cluster preferable

Attractive Government Policies and Incentives

- Attractive Investment incentives
- Fast and Convenient Process (one-stop service)
- Supportive government policy

Competitive Skilled Workforce

- Relevant skill sets
- Competitive cost
- Technology capability

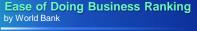
Potential to support BCG

- Renewable energy
- Green and sustainable supply chain
- 1st Automotive Producer in ASEAN
- Largest Petrochemical Production Capacity in ASEAN
- 13rd World's Electronic Export Value

GLOBAL COMPETTIVENESS RANKING by World Economic Forum published in 2020

by World Economic Forum published in 2020



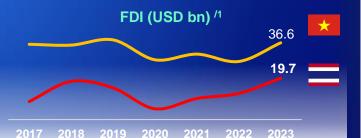


Ease of Doing Business	21 st	70 th

Trade Partnership by Asia Regional Integration Center

Number of Free





Source: BOI, MPI Vietnam

27

FTAs



WHA Industrial Zones in Vietnam

Strategically located in Vietnam, WHA Projects are well positioned to attract flows of investments benefiting from



Minh Ci

• MoU signed in 3Q/2022

Remark: 6.25 Rai = 1 Hectare



WHA Industrial Zone 1 - Nghe An Project

PHASE 1 (143.4 ha) In Operation

 International standard Industrial Zone equipped with the highest quality infrastructure, utilities and environmental care, in line with WHA Smart Eco IE Concept.











PHASE 2 (355 ha) Under Construction. Strong Customer Demand

- Started construction since Q1'2022
- Expediting construction to meet high customer demand
- Filling up quickly







WHA Industrial Zone 1 - Nghe An Project

Attracted WHA Industrial Zone 1 - Nghe An .2 USD Bn attracted some of the largest

Investment electronic manufacturers in the world

Overall Portfolio

WHA contributed to boost foreign investments in Nghe An to number #8 FDI destination in Vietnam



Electronics & Electrical 32% **Appliances** 8% Consumer 8% **Automotive**

% OF NUMBER OF CUSTOMER **BY NATIONALITY***

		Overall Portfolio
*)	China	64%
*	Vietnam	12%
	Japan	12%



Remark: Customers data as of March 2024

Industrial Estate Business - Vietnam



Broaden Vietnam on National Basis

With more Industrial Zone Locations and WHA Products



WHA Smart Technology Industrial Zone 1 – Thanh Hoa 3,125 Rai (500 Hectares)^{/1} WHA Smart Technology Industrial Zone 2 – Thanh Hoa 1,875 Rai (300 Hectares)



3rd most populated province of Vietnam



Well positioned to attract high value FDI with significant expansion of Northern Technology Corridor



∼o. Location Suitable for

technology-based industries
Close (10km) to Thanh Hoa main city

- Superior logistics connectivity near highway and upcoming motorway
- ✓ Proximity to Hanoi, Haiphong, Deep Sea Lach Huyen port



+ 3

Explore Opportunities in Other Vietnam Provinces

- Secure greenfield Industrial zone projects in targeted provinces
- Explore opportunities with new industrial land to be made available



WHA Smart Eco Industrial Zone– Quang Nam 2,500 Rai (400 Hectares)



At the heart of the Central region

- Between Danang and Quang Ngai provinces



Superior infrastructure and connectivity from

- Danang international airport, and Chu Lai airports;
- Danang deep seaport;
- Modern motorway connecting the project to Danang below 1 hour



Ample labor availability and population of 1.5 mn, with an existing industrial base in automotive and electronics



Unique living environment - Danang and Hoi An



Well-suited to welcome clean and high-tech manufacturing industries



Danang

Quang

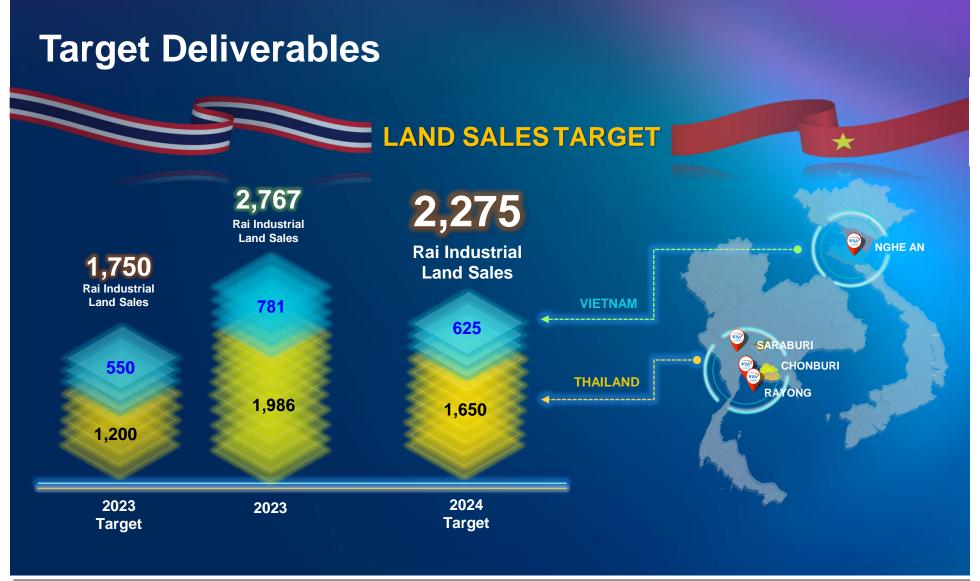
Nam

Remark: 6.25 Rai = 1 Hectare /1 expandable to 850 ha









Utilities and Power Business



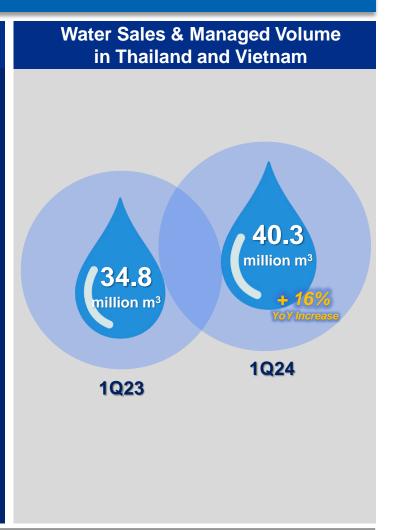


Utilities Business - Overview



Sole Provider of Utilities to Manufacturers/Factories in Leading Industrial Estates with a Concrete Plan to Capture Increasing Demand from Heavy Users and Expand Outside i.e. Other IEs, Non-IE Area and International

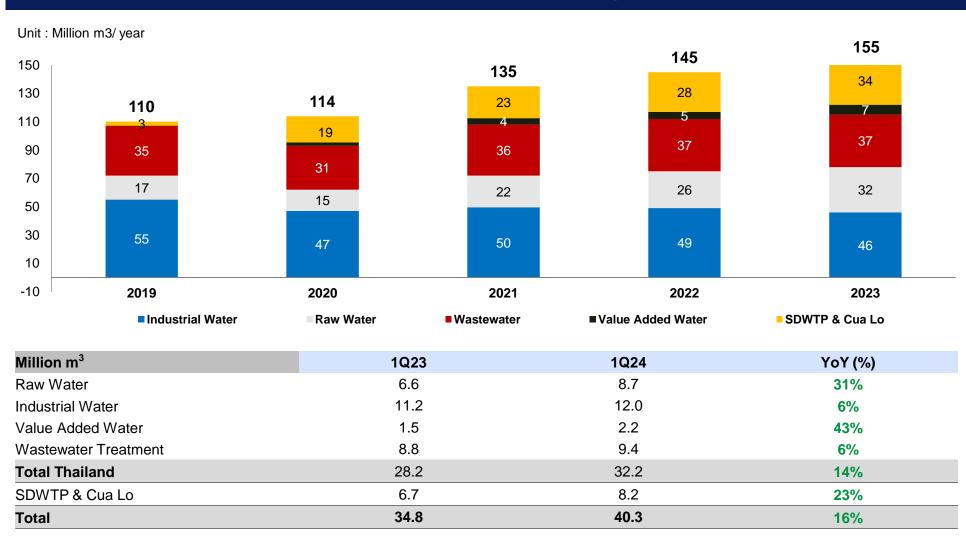
Water Product/Services & Capacity Raw & Industrial Water Wastewater Treatment Municipal Water Reclaimed & Demineralized Water



Utilities Business – Operating Performance



Utilities Portfolio Growth – Sale & Management Volume



Utilities Business



WHA Utilities – Thailand



32 + 14% YoY Total Water Sup Wastewater

Total Water Supply & Wastewater Management Volume

9 Million m³

+ 31% YoY

2

+ 43% YoY
Value-added Water

2024 Strategies and Projects

Water Supply & Wastewater Management Volume



New Projects

- WHAIER: COD 2Q'24
- WHA Rayong 36 Expansion : tentative COD 4Q'24

New Projects in Pipeline

- WHA ESIE3 P3: Start construction in 2Q'24
- WHA ESIE4 Expansion : Start construction in 2025

Continue to Support WHA Industrial Estate Expand
Alternative
Raw Water
Sources to
Increase the
Group
Reliability

Alternative Raw Water Supply Volume

2023



23.5 +34% YoY
Alternative Raw
Water Volume

Million m3/yr N

Million m³/yr

2024

Alternative Raw Water Sources

- Reservoir on WHAID's raw land
- Reclamation Water

Contractual Volume of Value-added Water

To sign contract with new customers for a total premium clarified water of 3.4 Million m3/yr

2023

2024



³/yr

14.3 Million m³/yr

+31% YoY
Value-added
Water
Volume

Provided Extensive Valueadded Products Capture
Opportunities
Outside WHA
Territory

Contractual Volume Outside WHA



Million m³/yr

- WHAUP ASIA
 Reclamation
- Municipal Water Reclamation
- Others

Other New initiatives under Study MOU with strategic partners for potential collaborations



Value-added



Municipal Water



Utilities Business



WHA Utilities – Vietnam

2024 Strategies and Projects



Expand Utilities Business to Support Growth of WHA Industrial Zones in Vietnam

WHA Nghe An Industrial Zone 1

(100% Shareholding)

18 Million m3/yr Water Supply



- Commissioning of >5 customers 2024
 - 2023
 - 0.6

+314% YoY Sales Volume

Million m³ Million m³

To sign contract with >5 new customers



0.1

Total Water Supply & Wastewater Management Contractual Volume

Million m³/yr

Upcoming Projects

- · WHA Smart Technology Industrial Zone Thanh Hoa (Expected water supply and wastewater management volume up to 7 million m3/yr)
- · WHA Smart Eco Industrial Zone Quang Nam

Leverage WHAUP's Expertise to Improve the Performance of Local Utilities Businesses

Cua Lo Water Plant

(47% Shareholding)

8.4 Million m3/yr Capacity



2023 1.1 2024

18% YoY Sales Volume

Million m³

To sign contract with new amusement park in the area

Duong River Surface Water Treatment Plant (34% Shareholding)

109 Million m3/yr Capacity



2023

2024

+6% YoY Sales Volume

Million m³ Million m³

 Utilization rate is expected to reach 90% in 2024



Actively Explore Greenfield Value-added Utilities Projects and M&A Opportunities in Vietnam

Utilities Business





Power Business - Overview



Diverse Portfolio of Conventional and Renewable Energy











Conventional Power Plant



Equity MW of Existing Conventional Power

Renewable Energy

Solar Rooftops



Equity MW COD 137 MW Under Development 105 MW to-be signed PPA

Industrial Waste to Energy



Equity MW COD

Hydro



Equity MW COD

Natural Gas

Operating Projects - WHANGD 2 and WHANGD 4 **Under Development - EIA Approved for WHANGD 3**

Total Equity MW COD

659 Installed Equity MW

> **74 MW** Under

Development and 125 MW

Installed Equity MW

137 MW **Under Development**

and 105 MW to-be signed PPA

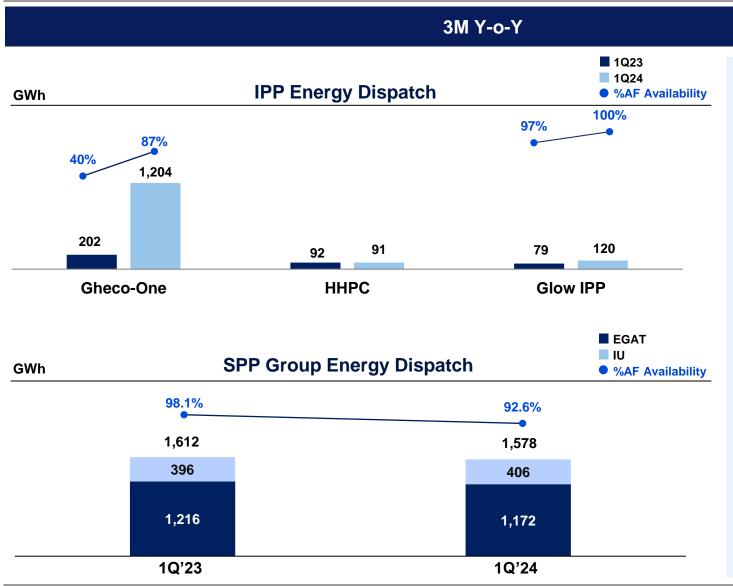






Power Business - Operating Performance





IPP Business

GHECO-One

- Forced Outage 11 days in Jan and Feb 2024 (vs 54-day planned maintenance outage between 15 Jan – 9 Mar 2023 and reserved shutdown since 10 Mar 2023)
- Higher availability factor at 87% (vs 40% in Q1'23 from the major maintenance)

GIPP

- EGAT dispatch at 120 GWh (vs 79 GWh in Q1'23)
- Higher availability factor at 100% compared to 97% in Q1'23

HHPC

- In-line energy dispatch with Q1'23 (91 GWh vs 92 GWh in Q1'23)
- 142% increase in cumulative YTD rainfall at 51 mm3 (vs 21 mm3 in Q1'23)

SPP Business

- Total energy dispatch declined by 2.1% YoY from -3.6% lower EGAT dispatch (1,172 GWh vs 1,216 GWh in Q1'23) whilst IU demand up +2.4% (406 GWh vs 396 GWh in Q1'23)
- 63 maintenance days in Q1'24 (32 days major planned maintenance of GTS1 and 31 days unplanned maintenance of GTS4) vs. 18 days in Q1'23

Power Business





Power Business



Enlarging Domestic Portfolio

As of March 2024, total of 675 Operating Equity MW (137 MW Under Development) in Power Portfolio

Conventional Power Plant



528 Equity MW COD

Industrial Waste to Energy



3 Equity MW COD

Hydro



19 Equity MW COD

Solar Energy

125 Equity MW COD

Continuing Growth from Committed Projects in Pipeline



2 Projects Commissioning in 1Q/2024 with a Total Capacity of 9.9 MW

(Total 125 equity MW in operations and 137 MW is under development)



15 New Private PPA Signed with Industrial Users in 1Q2024 with a Total Capacity of 59 MW (Total 242 equity MW of secured PPA)

Selected Project Commissioning in 1Q2024





FiT Bidding Results



 5 Solar farm projects with total installed capacity of 125.4 MW equity (Signed PPA of 19.8 MW and to-be signed PPA of 105.6 MW equity)

• SCOD in year 2029 - 2030

New Projects in Pipeline

Additional Expansion of Our Renewable Portfolio

Upcoming Solar Rooftop Projects in 2024,

with Target of 283 Equity MW of Secured PPA

Selected Target Projects Commissioning in 2024















Expanding Our Renewable Energy Portfolio Regionally

Thailand Market

Awarded 2023 FiT Bidding

Our 5 solar farm projects with installed capacity of 125 MW equity were awarded by ERC Project Progress:

- Signed PPA for the first two projects accounted for 19.8 MW
- Signed PPA for the remaining projects, target within Q2/2024
- Expected SCOD in year 2029 2030
- Keep Monitoring & Preparing for Next Bidding Round
- Secure Direct PPA Solution for Industrial Customers

International Market

- Leverage WHA Group Existing Resources & Footprints in Vietnam
 - Leverage existing customers network for expansion
 - Solar rooftop both inside & outside industrial estate
 - > Explore M&A opportunities or develop green field project aligned with PDP8
- Explore 3rd Home Country
 - Focus on countries that have a need for renewable energy adoption and are making progress in new S-curve technology.

Power Business

Market 1



Delivering Innovation & Smart Energy Solutions



EV Charging Station (Green Logistics)

Project Progress

- Established the first pilot site in Q1/2024
- CSMS Platform has already been tested with potential chargers
- To provide EV charging solution service which is a synergic project with fleet rental by Green Logistics

Carbon Credit Portfolio



Thailand Voluntary Emission Reduction Program (T-VER)

- ➤ As of 2023, total of 48,576 tCO2/year in Carbon Credit Portfolio
- ➤ Upcoming carbon credit in 2024, with target of 78,776 tCO2/year



International Renewable Energy Certificate (I-REC)

- > As of 2023, total of 4,000 REC/year in Carbon Credit Portfolio
- ➤ Upcoming carbon credit in 2024, with target of 103,000 REC/year

Exploring Other S-Curve Business



BESS



Hydrogen



CCUS



Target Deliverables

Target Water 9	Sales & Managed Volum	ne Target Tot	al Sacu	rod PPA
Target Water C		le larger for	ai Secu	IGU PPA
Total Water Supply & Wastewater Management Volume	155 178 Million m ³ Million m ³	Total Secured PPA Equity MW	858 mw	1,000 MW
 Vietnam's Total Water Supply and Wastewater Management Volume 	34 Million m ³ Million m ³	Secured PPA Equity MW from Renewable Energy	311 _{MW}	453 MW
 Value-added Water Supply Volume (Demineralized Water, Premium Clarified Water) 	6 Million m³	 Secured PPA Equity MW from Solar Rooftop 	183 _{MW}	283 MW
	2023 2024 Target		2023	2024 Target

Digital Business





Digital Business



Digital Business

Empower WHA Business to **Enhance Operation**

Support digital transformation initiatives to adopt new technologies to:

- Increase productivity and efficiency
- Enhance operation reliability and efficiency



WHA Web Portal



Easy Invest app for WHA Vietnam



LBDMS

Building management system for Logistics



outsystems

Low-Code software to develop applications

Collaborate with WHA Group to Create New Value-Added Products for Customers

Create new products that meet the Group's customer needs. Key technologies include:

- Low code development application
- IoT Platform: IoX



Solar Rooftop Monitoring Dashboard and Performance Detection Devices for WHAUP



To monitor performance of client's solar panels

Explore New Business Streams for WHA Digital

Generate innovative products & services for internal and external of WHA Group's ecosystem

> **Building new** businesses



WHA Green Mobility Platform (W-GMP)



WHA Green Logistics - EV Digital Operations Platform

To commercial launch Green Mobility Platform to Green logistics customers in Q2 2024

WHAbit

Empowering the industrial sectors through digital healthcare

> To commercial launch WHAbit to industrial estate customers in H1 2024 & Expand to Corporate in H2 2024



Digital Business







WHA's Aspiration to Become a Tech Company

Digital Transformation

Utilize digital technology to reach new levels of operations reliability and efficiency to empower core business and lead to superiority over industrial competitors.

2021

Innovative Workplace

Build Innovation
Culture, Workplace
and Workforce to
create new revenue
streams, innovative
products making
WHA superior to
competitors.

2022

Data Driven Organization

Turn data asset into a competitive advantage with a data insights through:

- Manage digital assets
- Innovate with data
- Data monetization

2023

2024

Turning to Technology Company

"Al Transformation"

Build Digital-Ready Culture in Organization by optimizing practices with Al and Data Insights to lead in

the dynamic business landscape, ensuring sustained superiority

AI & ML Data Insight

 Enhance productivity & efficiency lead to better decision making

Al Cybersecurity

Implement advanced cyber threat detection & prevention

Generative AI: Yoda Bot

- Allow employee to access WHA knowledge & information using prompt engineering
- The new version of Yoda

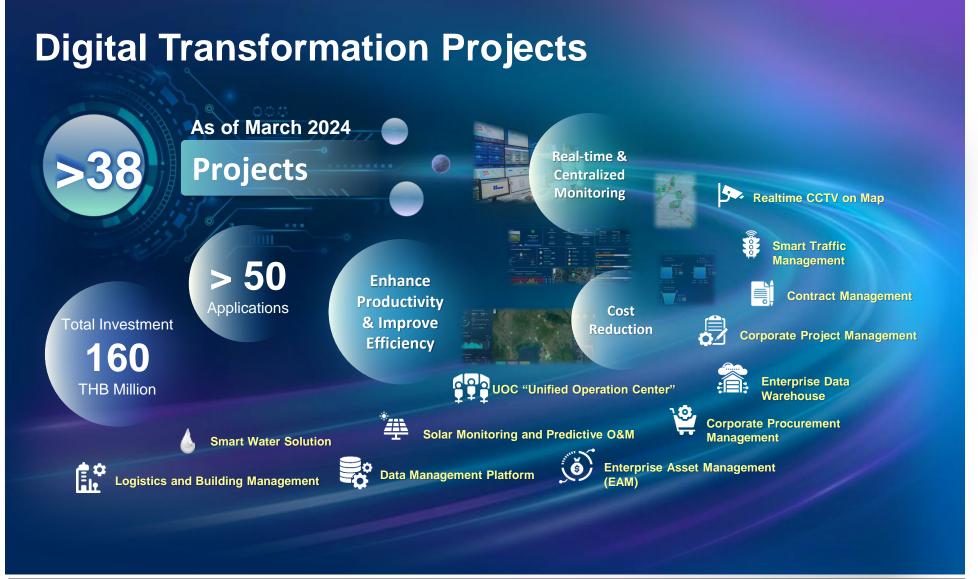




Yoda V.1

Yoda V.2





Digital Transformation



Mission to The Sun Programs

Turning to Tech Company in 2024

ESG

App Ready Dec 2023



SUSTAINABLE DEVELOPMENT

Circular



>40 Circular Initiatives Proposed



Organization & Culture Development



People Development



Innovative Workplace



MTTS
PROGRA
On Track

NEW PRODUCTS & SERVICES



Customer





Green Logistics

As of 1Q/24 2024 Sold Sales >176 1.0

Sales Target

electric commercia vehicles

P2P Energy & Carbon Trading



Digital Health Tech

Official launch 8 Dec 2023



Digital Transformation





Digital Transformation



Digital Health Tech

To implement health technologies in the community and enhance long-term wellbeing of the employees

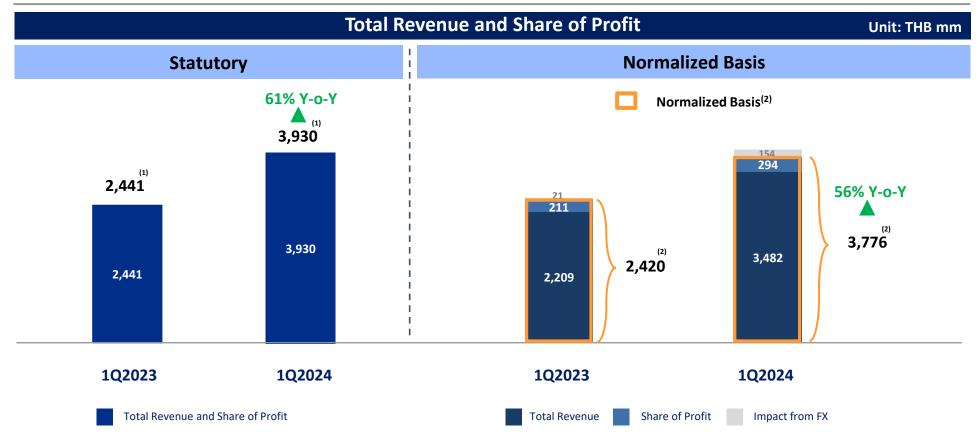




- I. WHA Group Overview
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Total Revenue and Share of Profit

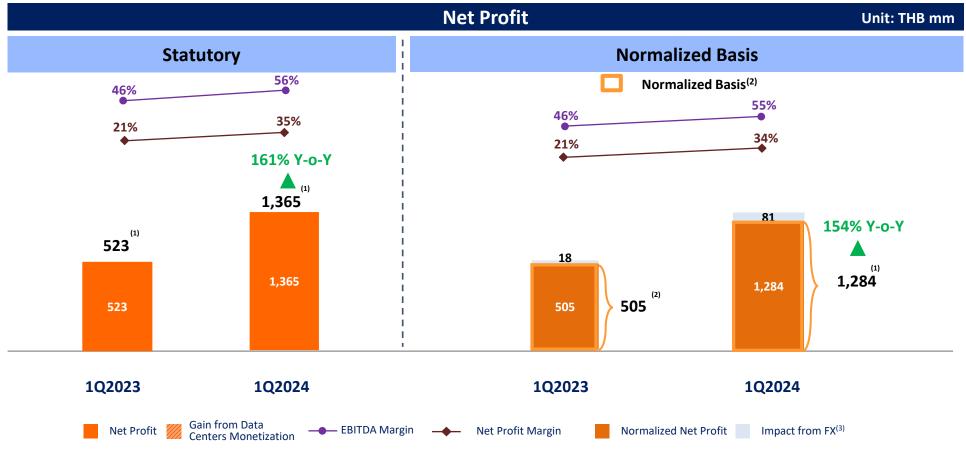


• The Reported Revenue and Share of Profit and Normalized Revenue and Share of Profit of 1Q2024 increased by 61% Y-o-Y and 56 % Y-o-Y, respectively, due to more contribution from all Business hubs.

Remark: (1) Representing Total Revenue Inclusive Share of Profit (Financial Statement)

Net Profit





• In 1Q2024, the Reported Net Profit and Normalized Net Profit decreased by 161% Y-o-Y and 154% Y-o-Y, respectively, due to more contribution from all Business hubs.

⁽²⁾ Representing Net Profit (Normalized) excluding FX impact

⁽³⁾ Impact from FX attributed to parent

Financial Highlights (3M Y-o-Y)



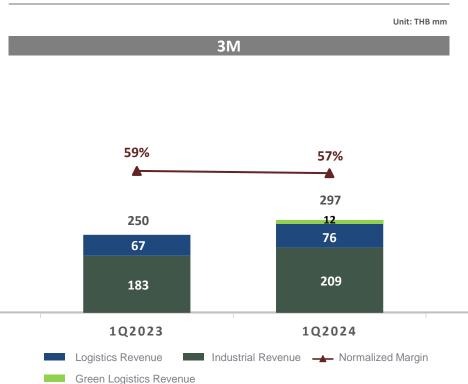
3M (1Q2024 vs 1Q2023)							
Y-o-Y							
Reported Revenue and Share of Profit: THB 3,930 mm 61% 🛕 Reported EBITDA: THB 2,213 mm 95% 🛕 Reported Net Profit: THB 1,365 mm 161% 🛕							
Normalized Revenue and Share of Profit: THB 3,776 mm 56% Normalized EBITDA: THB 2,060 mm 85% Normalized Net Profit: THB 1,284 mm 154%							
Rental Properties Business Normalized Revenue	THB 297 mm	1 9%	 Due to increasing in leasable area as well as occupancy rate of RBF/W and new contribution from Green Logistics 				
Land Business and Sale of Properties Normalized Revenue and Share of Profit	THB 2,133 mm	103%	 Sale of Industrial Land: THB 2,130 mm Increase by 102% from higher number of land transfer both Thailand and Vietnam from 281 Rai in 1Q203 to 581 Rai in 1Q2024 				
Utilities Business Normalized Revenue	THB 771 mm	△ 23%	 Due to increase in sale volume in both Thailand and Vietnam compared to the same period of previous year as well as better contribution from SDWTP thanks to higher volume and water tariff adjustment 				
Power Business Normalized Share of Profit and Revenue from Solar Business	THB 352 mm	20%	 Gheco project: Higher availability (scheduled maintenance shutdown in 1Q2023) and favorable FX SPP business: Strong of IU sale spread from lower gas price as well as a revenue recognition from insurance claim during 1Q2024 Solar business: 15% lower revenue, mainly due to lower revenue from EPC despite higher power sale revenue 				
Finance Cost	THB 342 mm	1 8%	Mainly due to increase in weighted average cost of debt and higher interest- bearing debt compared to the same period of previous year				
Normalized EBITDA	THB 2,060 mm	△ 85%	Strong contribution from all Business hubs				
Normalized Net Profit	THB 1,284 mm	1 54%	Strong contribution from all Business hubs				

Note: % of growth represents Y-o-Y growth basis

Performance by Business (3 Months)

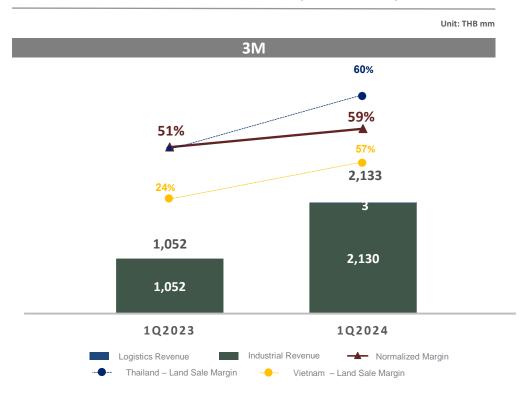


RENTAL PROPERTY BUSINESS (NORMALIZED)



■ The GPM in 1Q2024 slightly decreased to 57% due to change in product mix in portfolio.

LAND BUSINESS AND SALE OF PROPERTIES (NORMALIZED)

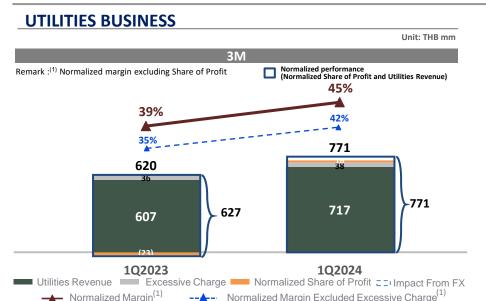


Sale of Industrial Land

 The GPM from Sale of Industrial Land increased to 59% in 1Q2024 from 51% in 1Q2023 due to better margin from both Thailand and Vietnam.

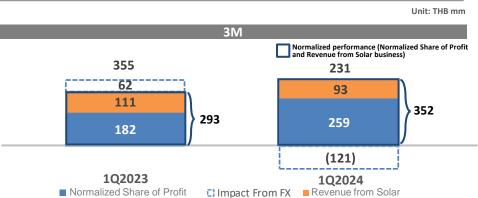
Performance by Business (3 Months)





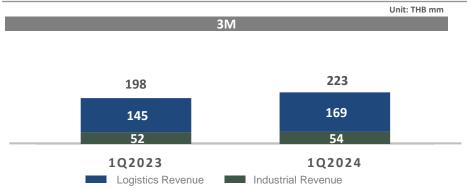
The GPM of Utilities sale in 1Q2024 increased to 45% due to significant increase in higher volume of valued-added product which have higher margin as well as increase in excessive charge.

POWER BUSINESS



- The Normalized performance (Normalized Share of Profit and Revenue from Solar business) in 1Q2024 was THB 352 mm which increased 20% Y-o-Y due mainly to
- (a) Gheco project: Higher availability (scheduled maintenance shutdown in 1Q2023) and favorable FX
- (b) SPP: Higher IU sale spread from lower gas price while electricity tariff stayed at high level and a revenue recognition from insurance claim in 1Q2024
- (c) Solar: 15% lower revenue, mainly due to lower revenue from EPC despite higher power sale revenue

REVENUE FROM MANAGEMENT, INVESTMENTS AND OTHERS (NORMALIZED)

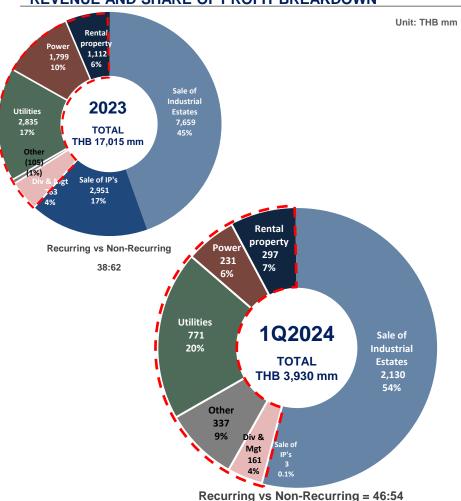


Normalized other revenues consist of property and REIT management fee, acquisition fee, dividend income, share of profit from JV, revenue from digital business and others, excluding FX impact in other incomes.

Revenue and Gross Profit Breakdown

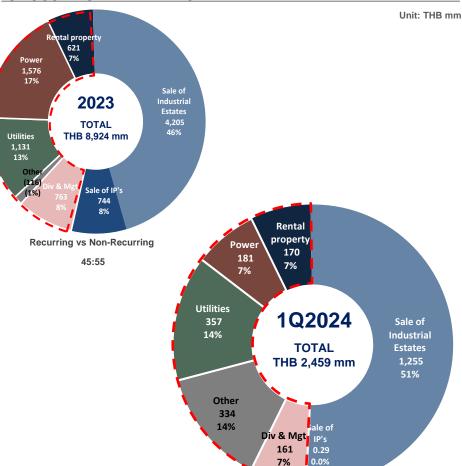


REVENUE AND SHARE OF PROFIT BREAKDOWN



Remark: Share of profit from JV's and Associates included

GROSS PROFIT BREAKDOWN



Remark: Share of profit from JV's and Associates included
Gross profits are based on consolidated financial statements and thus
affected by PPA adjustment

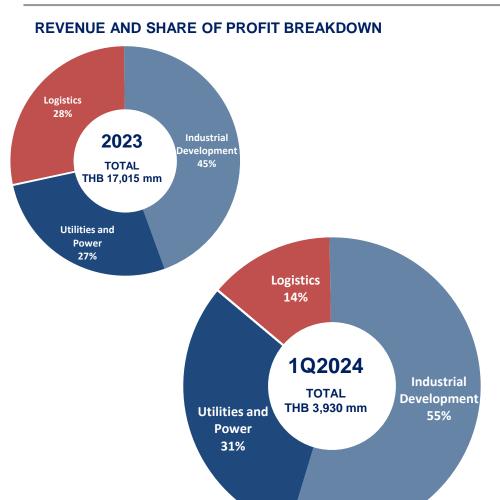
Recurring vs Non-Recurring = 49:51

Recurring Revenue

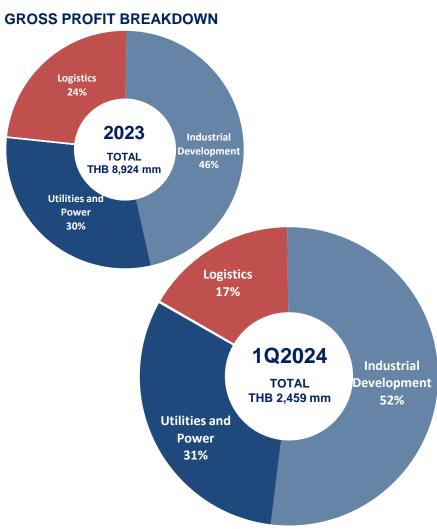
Note: Statutory Basis







Remark: Share of profit from JV's and Associates included



Remark: Share of profit from JV's and Associates included
Gross profits are based on consolidated financial statements and thus
affected by PPA adjustment

Note: Statutory Basis

Key Financial Activities





2024 Asset Monetization to REIT



 Approx. 170,000 sq.m. of BTS Projects to WHART with asset value of approx. THB 4,000 mm*



 Approx. 40,000 sq.m. of RBF and RBW to WHAIR with asset value of approx. THB 1,000 mm*



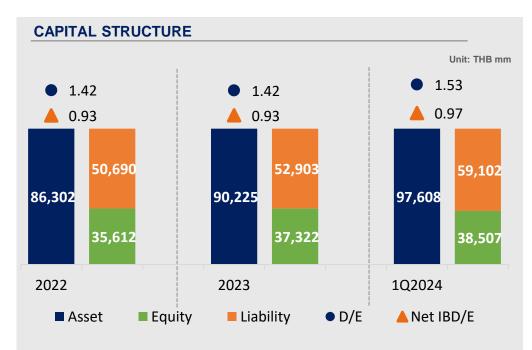
Mar 2024

: WHA Bond Issuance of THB 7,000 mm at 3.23% weighted average cost of fund with 3.80 year weighted average tenor

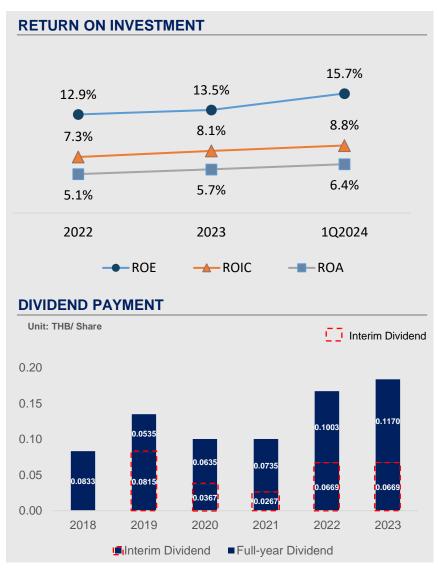
Financing Performance

Financial Position





- Total asset increased by THB 7,384 mm from 2023 due mainly to development of new projects and cash on hand from debenture issuance in late March for loan/debenture repayment in April onwards.
- Total liability increased by THB 6,199 mm from 2023 due mainly to debenture issuance in late March for loan/debenture repayment in April onwards and for business expansion and new investment.
- The total shareholders' equity increase by THB 1,184 mm from 2023 due mainly to increases in net income from business operation.

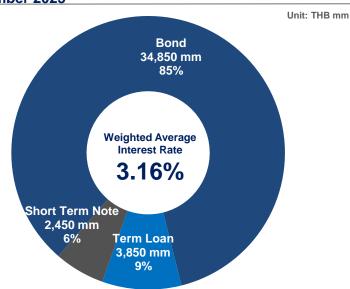


Financing Performance

Debt Profile



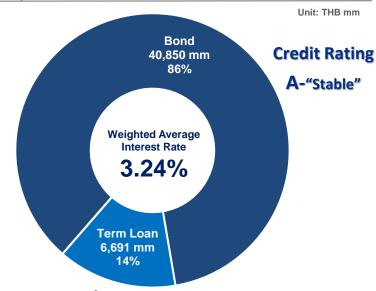
As of December 2023



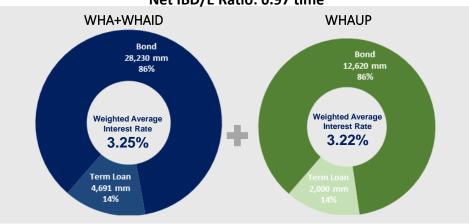
IBD/E Ratio: 1.10 time Net IBD/E Ratio: 0.93 time



As of March 2024



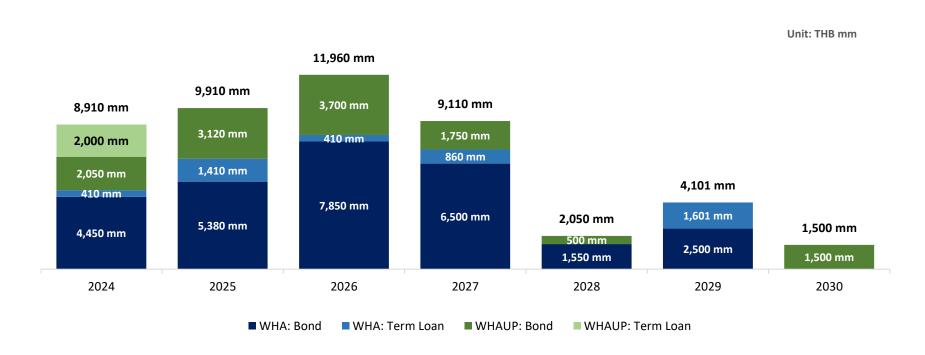
IBD/E Ratio: 1.23 time Net IBD/E Ratio: 0.97 time



Bond and Term Loan Maturity Profile



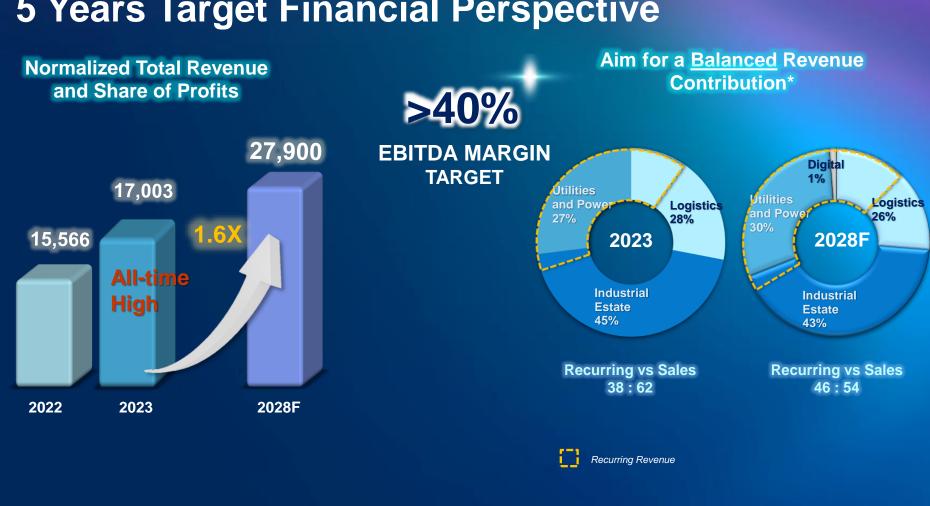
Bond and Term Loan Maturity as of 31st March 2024



Financial Target



5 Years Target Financial Perspective





Investment Plan for 2024-2028

Estimated CAPEX

(THB mm)

Mainly from Internal Cash Flow from Operation









2024-2028 (5 Years)

78,700

21,000

33,000

21,200

3,500

Target IBD/Equity Ratio (2024-2028)
(Times)

<1.2



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Sustainability Development at WHA Group

Framework and Strategy

WHA Group has rolled out its 5-Year Sustainability Framework to drive corporate sustainability actions to build upon, and align with the Group's business direction to become "The Ultimate Solution Sustainable Growth".

To achieve its aspiration, the Framework is built on the foundation of good corporate governance, human capital as strategic enabler and key driving forces including digitization and natural resources.

The long-term corporate sustainability goals address the Group's material topics that are important to WHA Group and the key stakeholders. Furthermore, the Group ensures to stay ahead by taking into consideration the risks and opportunities analyzed from global existing and emerging trends.

BUSINESS DIRECTION

"The Ultimate Solution for Sustainable Growth"











NATURAL RESOURCES

- Double the reclaimed industrial water for industrial use from 30,200 cubic meter/day in 2020 to 60,400 cubic meter/day by 2025
- Optimize proportion of waste to landfill and incineration approach by 2025 Corporate Value



DIGITIZATION

- Revenue generation and cost reduction from innovation projects
- 100% data breach prevention in terms of data leaks, thefts or losses of both inbound and outbound data are achieved in 2025











HUMAN CAPITAL

- Maintain Human Capital Return on Investment at 14 times by 2025
- 7.2% overall turnover rate in 2025
- 5% talent turnover rate in 2025

Corporate Value





GOVERNANCE

- 100% acknowledgement and communication of Code of Conduct to subsidiary, employees and suppliers/contractors by 2025
- 100% employees at all levels are trained on risk management by
- Maintain market share for industrial development at 32%
- ≥90% customer satisfaction score

Corporate Value







Materiality Issues Year 2023

Governance/ Economic Dimension

Corporate Governance & Ethics

Technology & Innovation

Customer Relationship Management **Social Dimension**

Occupational Health & Safety

Environment Dimension

Climate Strategy

Water Management

Energy Management

Sustainability Topics Year 2023

Governance/ Economic Dimension

- Corporate Governance and Ethics
- Risk Management & Compliance
- Supply Chain Management
- Customer Relationship Management
- Technology and Innovation
- Data & Cyber Security, Privacy Protection

Social Dimension

- Human Capital Development
- Talent Attraction and Retention
- Human Rights & Labour Practice
- Occupational Health and Safety
- Community Development and Social Integration

Environment Dimension

- Water Management
- Waste Management
- Climate Strategy
- Energy Management
- Air Emission
- Biodiversity



Governance Dimension

Ensuring that Business Operations are Pursued in Accordance With the Principles of Integrity

5-Star CGR Rating

Corporate Governance Report (CGR) of Thai Listed Companies in 5-Stars "Excellent " criteria over five consecutive years (since 2018-2023)



AGM Scoring

100% scoring for AGM Checklist Program in over three consecutive years (since 2021-2023)

Code of Business Conduct

WHA Group aligns good corporate governance management approach in accordance with the national guidelines developed by the Stock Exchange of Thailand and international approaches such as the United Nations Global Compact.



100% of Director, Executive and Employee have been communicated and training about CG policy, the Code of Conduct and Anti-Corruption Policy

Business Transparency

Certified as member of Thai Private Sector Collective Action Against Corruption ("CAC") for three consecutive times. (since year 2014-2026)



Gender Diversity & Woman empowerment

30% of directors are women – aligned with the new SEC CG Code

Board Effectiveness

100% BOD attendance in 2022. 58.3% of all board members are independent directors as of April 2023.



Supply Chain Management

Supplier Code of Conduct consists of requirements on business ethics, fundamental human rights, occupational health and safety and environmental management. In 2023, 100% of suppliers have been communicated in which 100% have signed acknowledgement to the Supplier Code of Conduct.

WHA Group started conducting **ESG evaluation process** through onsite audits to assess the qualifications and performances associated with business ethics, environmental, health, safety and social management of the critical suppliers in accordance with the Group's requirements and standards.

Customer Relationship Management

To assess the success of customer relationship management, WHA Group conducted its annual customer satisfaction which covered topics including satisfaction towards the quality of services provided, tidiness of the industrial estates' common areas, quality of communicated news and quality of the trainings provided.

Customer Satisfaction Score

Target 2024

2019 2020 2021 2022 2023 87% 89% 90% 86% 88%



Data Security

WHA Group is aware that data security lies at the core of running all of its business hubs successfully as it gives the Group's customers and employees the confidence that their data are being collected, processed and transferred securely.



Number of identified leaks, thefts, or losses of customer data



Environment Dimension

Climate Change and Energy Management

Promoting Clean Energy to Our Customers





Offers an all-in solar rooftop service package for customers in Thailand including permitting, design and engineering, construction and installation, as well as operation and maintenance throughout the contract period

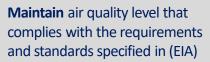




year (scope2) in 2023

Efficient Unified Operations Center (UOC)

Reduce approximately 75.4 tCO2e of direct GHG (Scope 1) per year from reduction of car fuel used in operation





Provide safety to communities and stakeholders

Reduce operating costs and workload of employees whose skills could be potentially developed to perform more complex tasks to support sustainable growth of the Group

Battery Energy Storage System (BESS)



In the year 2023, WHAUP installed a total of 813.2 megawatts of solar power capacity combined with a BESS system capable of storing 550 megawatt-hours of electricity. This project has enabled the company to reduce its electricity consumption from the grid by approximately 1,150 megawatt-hours per year, equivalent to saving about 4 million Baht annually in electricity costs. Additionally, it has contributed to a reduction of approximately 16,100 metric tons of CO2 emissions over the project's lifespan

6 Eco-Industrial Town Awards at the ECO Innovation Forum 2023



4 WHA Industrial Estates received "Eco-Champion level"
2 WHA Industrial Estate received "Eco-Excellence level "



Environment Dimension

Waste Management

Chonburi Clean Energy (CCE)



The most advanced technologies in terms of reliability, sustainability, stability and environmental protection

The first industrial waste to energy facility in Southeast Asia to meet European emission

standards

Using safe and environmentally sustainable waste incineration technology and high standard air emission control systems Advanced waste-toenergy power plant located at WHA Chonburi Industrial Estate 1

Maximum output of 8.63 MW of electricity per year

Converting waste to energy source at 100,000 tons/year





CCE Contribution 2023



CCE has incinerated 181,133 tons of waste

CCE has saved around 39,000 Tons CO2

Sustainable electricity around 32,000 homes

CCE has generated

59.747 MWH to PEA



Plastic Waste Reduction



Reduce bottles of plastic waste by stop serving plastic bottled drinking water to its guests and visitors

E-Paperless Work Culture

As part of digital transformation efforts, this initiative encourages employees to leverage existing technologies and devices to enhance operational efficiency to promote a paperless work culture

Sort N' Save Project

The Internal Project increase environmental awareness amongst WHA Group's employees and to explore innovative business platforms under the circular economy concept











Social Dimension

Greener Community for Generations to Come

Adding educational value in environment conservation among the community members

Constructed Wetland Water Treatment Facility Caring for the Environment



WHA Constructed Wetland Systems, considered a natural technology that is eco-friendly, cost effective and easy to maintain delivered to Pluak Daeng Sub-District Office in Rayong Province.

- Demonstrate the application of Simple Wastewater Treatment to Communities in a sustainable method
- ✓ Reduce the organic compound by 80%
- ✓ Treat waste water with the capacity of 146,000 cubic meters per year
- Benefit to 4,000 individuals, 220 apartments, 125 houses, and 30 local markets in the Pluak Daeng community
- ✓ Mitigate risk from complaints related to water pollution to the Company

Solar Rooftop Systems Installation for School in Rayong Province under the "Shine Brighter with WHA" Project

In 2023, WHA Group, in collaboration with Dr. Somyos Anantaprayoon Foundation, supported the installation of solar rooftop systems for school in Rayong province under "Shine Brighter with WHA" project by installing a 10.45 kWp solar rooftop system to Nikhom Sang Ton Eng School, Rayong Province, which has a total of 319 students. Additionally, WHA Group also provided sports equipment with the objective of supporting education, promoting the use of clean energy, and reducing the school's public utility expenses to allocate budgets more efficiently for education.



This initiative aims to create a sustainable sharing community in line with the development philosophy of the organization. The "Shine Brighter with WHA" project aligns with the mission of supporting health and education for children and students in Thailand, in collaboration with WHA Group, to enhance the quality of life for youth and communities surrounding WHA industrial estates. This solar rooftop installation can help the school save up to 72,000 Baht per year, or about 67% annually, in electricity costs.



Social Dimension

Upcycling and Turning Waste into Valuable Products



Under WHA Clean Water for Planet project, in collaboration with GC and the Industrial Estate Authority of Thailand, WHA Group invites entrepreneurs in WHA industrial estates, local government agencies, and schools to donate used PET plastic for recycling and upcycling. The donated PET plastic will be processed along with water hyacinth fibers from wastewater treatment ponds in WHA industrial estates to create innovative new fiber materials. These materials will then be used to produce environmentally friendly and sustainable upcycled products.



1. Waste sorting " We are the HERO To save the PLANE 2. You Turn receives plastic waste and forward for recycling and upcycling

4. Plastic bottles and water hyacinth fibers are introduced into the production process to create innovative fabric

5. Upcycled products



3. Creating occupation for the community through the sale of water hyacinth fiber



Social Dimension

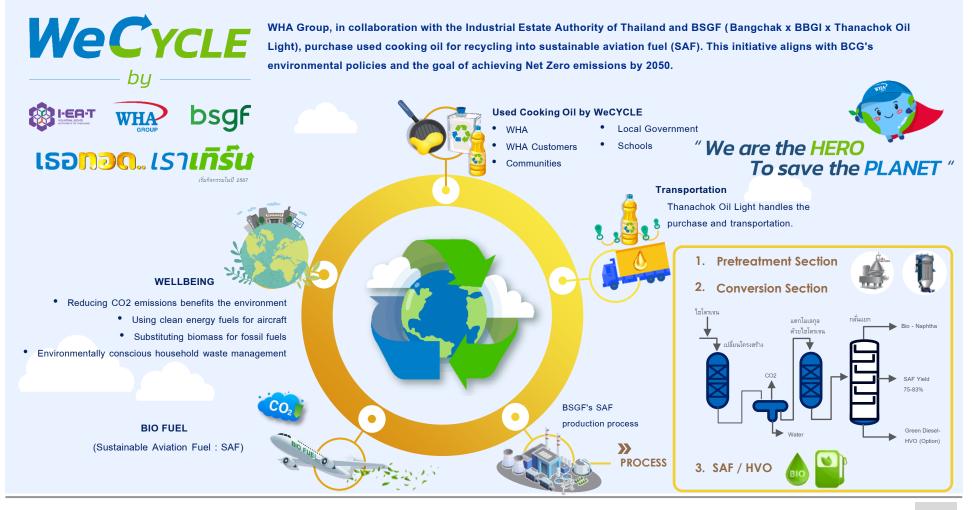
Upcycling and Turning Waste into Valuable Products





Social Dimension

Upcycling and Turning Waste into Valuable Products





Social Dimension

Upcycling and Turning Waste into Valuable Products









WHA SIERT &GC SCGP bsgf

The accumulated amount of used plastic bottles, paper and cooking oil as of April 2024 (From 2022-2024).

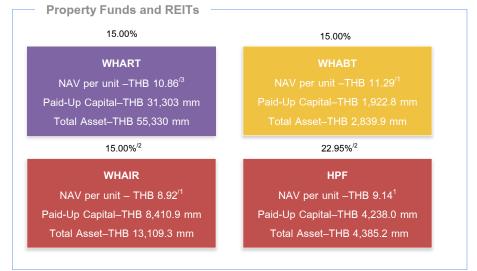


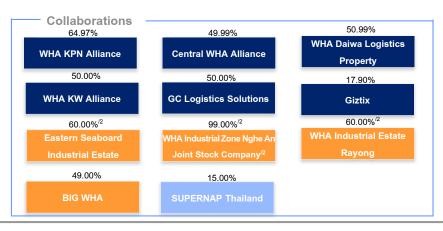
Group Structure – Operating Companies









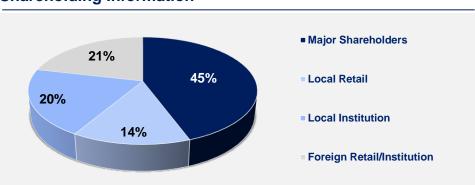




Shareholding Information / Board of Directors

WHA

Shareholding Information/1



Top 10 Shareholders/1

Shareholders	No. of Share	%
1) Ms. Jareeporn Jarukornsakul ^{/2}	3,481,188,569	23.3%
2) Ms. Chatchamon Anantaprayoon/2	1,349,486,105	9.0%
3) Thai NVDR Co., Ltd.	1,067,883,011	7.1%
4) Mr. Chaiwat Phupisut ^{/2}	680,290,854	4.6%
5) Ms. Supitchaya Phupisut ^{/2}	664,000,000	4.4%
6) UBS AG SINGAPORE BRANCH	580,851,722	3.9%
7) Mr. Niti Osathanugrah	436,438,690	2.9%
8) SOUTH EAST ASIA UK (TYPE C) NOMINEES LIMITED	302,446,241	2.0%
9) THE BANK OF NEW YORK MELLON	297,414,602	2.0%
10) STATE STREET EUROPE LIMITED	198,146,935	1.3%

Board of Directors and Management

Mr. Somkid Jatusripitak Independent Director Chairman of Board of Directors



Ms. Jareeporn Jarukornsakul
Director, Vice Chairman of Board of Directors
Chairman of the Executive Committee
Chairman of Corporate Governance and
Sustainable Development Committee
Member of the Nomination and
Remuneration Committee
Member of Risk Management Committee



Board of Directors

Mrs. Anchalee Chavanich Independent Director Chairman of the Audit Committee Member of Corporate Governance and Sustainable Development Committee



Dr. Apichai Boontherawara Director Chairman of the Nomination and Remuneration Committee



Lt. Gen. Dr. Prachaya Chalermwat Independent Director Chairman of Risk Management Committee



Mr. David Richard Nardone



Mr. Vivat Jiratikarnsakul Director Member of Executive Committee



Mr. Chakkrit Parapuntakul Independent Director Member of the Audit Committee



Ms. Ajarin Pattanapanchai Independent Director Member of the Audit Committee Member of the Nomination and Remuneration Committee



Dr. Kritsana Sukboonyasatit Independent Director Member of Audit Committee Member of Risk Management Committee Member of the Nomination and Remuneration Committee



Dr. Anuchit Anuchitanuku Independent Director Member of Risk Management Committee



Mr. Arkrapol Pichedvanichok Independent Director Member of Risk Management Committee

Management



Ms. Jareeporn Jarukornsak Group Chief Executive Officer



Mr. Krailuck Asawachatroj Chief Strategic Officer



Mr. Pajongwit Pongsivapai Chief Operating Officer-Logistics and Industrial Development Business



Mr. Natthapatt Tanboon-ek
Chief Financial Officer



Mr. Somsak Boonchoyreungchai Chief Accounting Officer

WHA Group Customers





Remark: Information as of April 2024

WHA Industrial Estates in EEC (Thailand)



WHA is a Key Player in the Development of Eastern Economic Corridor (EEC)

Industrial Estates/Lands

- A WHA Chonburi Industrial Estate 1 (WHA CIE 1)
- B WHA Chonburi Industrial Estate 2 (WHA CIE 2)
- © Eastern Seaboard Industrial Estate (Rayong) (ESIE)
- WHA Eastern Seaboard Industrial
 Estate 1 (WHA ESIE 1)
- WHA Eastern Seaboard Industrial
 Estate 2 (WHA ESIE 2)
- Fixed Boundary (Industrial Estate 3 (WHA ESIE 3)
- © WHA Eastern Seaboard Industrial Estate 4 (WHA ESIE 4)
- WHA Eastern Industrial Estate (Map Ta Phut) (WHA EIE)
- WHA Rayong Industrial Land (VVHA RIL)
- WHA Rayong 36 Industrial Estate (WHA RY36)
- WHA Industrial Estate Rayong
 (WHA IER)

WHA Logistics Parks

- 1 (WHA Logistics Park 1 (WHA LP 1)
- 2 WHA Logistics Park 2 (WHA LP 2)
- 3 WHA Logistics Park 3 (WHA LP 3)
- 4 (WHA Logistics Park 4 (WHA LP 4)





THANK YOU

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