



TTW Public Company Limited Company Presentation

Q2'2023 & 1H'2023



- This presentation includes some forward-looking statements relevant to future events such as plans, business strategies, expectations, etc. Thus, actual situations may differ from what is projected in this presentation due to the unexpected environment which might be better or worse than anticipated. Investors or material users should be meticulous on any herein information.
- This presentation, which is prepared by the company, is only used for investment information. Also, the information included in this forward-looking statement may be changed by TTW Public Company Limited without notice and then the company does not take any duty to update any relevant information.



Agenda

- Highlight
- Water Situation
- Company Overview
- Operating &
- Financial Performance
- Outlook & Beyond



Highlight



■ Annual Selling Price Adjustments by CPI

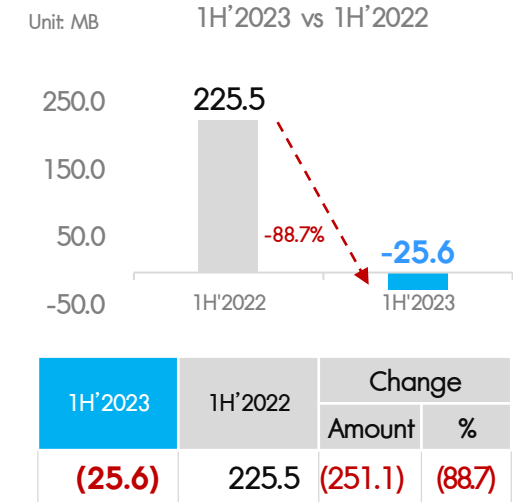
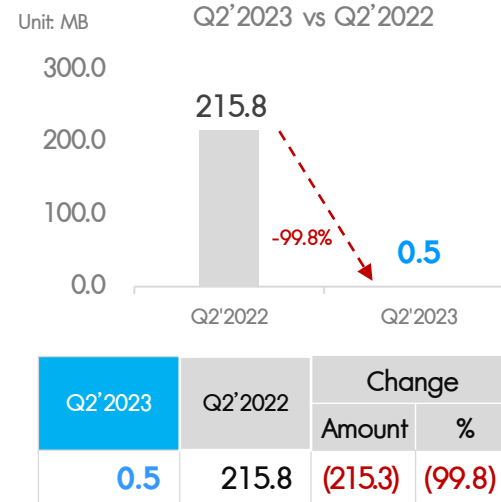
Selling price			2023 (Baht)	% Change
TTW	PWA project	1 - 300,000 m³	31.53	+5.86%
		> 300,001 m³ onward	13.11	+4.00%
	BIE project		24.75	-
PTW			13.76	+7.61%

*Effective date: Jan 1, 2023

■ Profit-sharing from investment in the associate company

Q2'2023

- The recognition of loss-sharing from investment in XPCL from lower electricity sales volume YoY, higher finance cost following global interest rates situation.
- NN2 has decreased in revenue from sales.
- The expiration of BKC's Adder revenue.
- Higher expenses (Major overhaul) at NN2.



■ The finance cost has decreased by 13.8 MB (15.7%) YoY.



Finance Cost	1H'2023	1H'2022	Changes	
			+ / (-)	%
	74.2	88.0	(13.8)	(15.7)



Unit: (x)

	30 Jun 2023	31 Dec 2022
D/E	0.37	0.46
Net D/E	0.12	0.17

Reduce Finance Cost

- The long-term loan repayment of 330 MB.
- The redemption of debentures of 1,000 MB.

Maturity Date: Feb 1, 2023
Issue Amount: 1,000 MB.
Tenor: 5 yrs.
Interest Rate (Coupon): 2.33%

Description	30 Jun 2023	31 Dec 2022	Changes	
			+ / (-)	%
Loans	2,210	2,540	(330)	(13.0)
Debentures	2,400	3,400	(1,000)	(29.4)

- The current portion of long-term loans: 660 MB.
- The current portion of debentures: -

■ Total COGS increased by 151.2 MB (16.0%) YoY, mainly due to the increase of Ft change rate of electricity cost and higher chemical costs.

Unit: MB

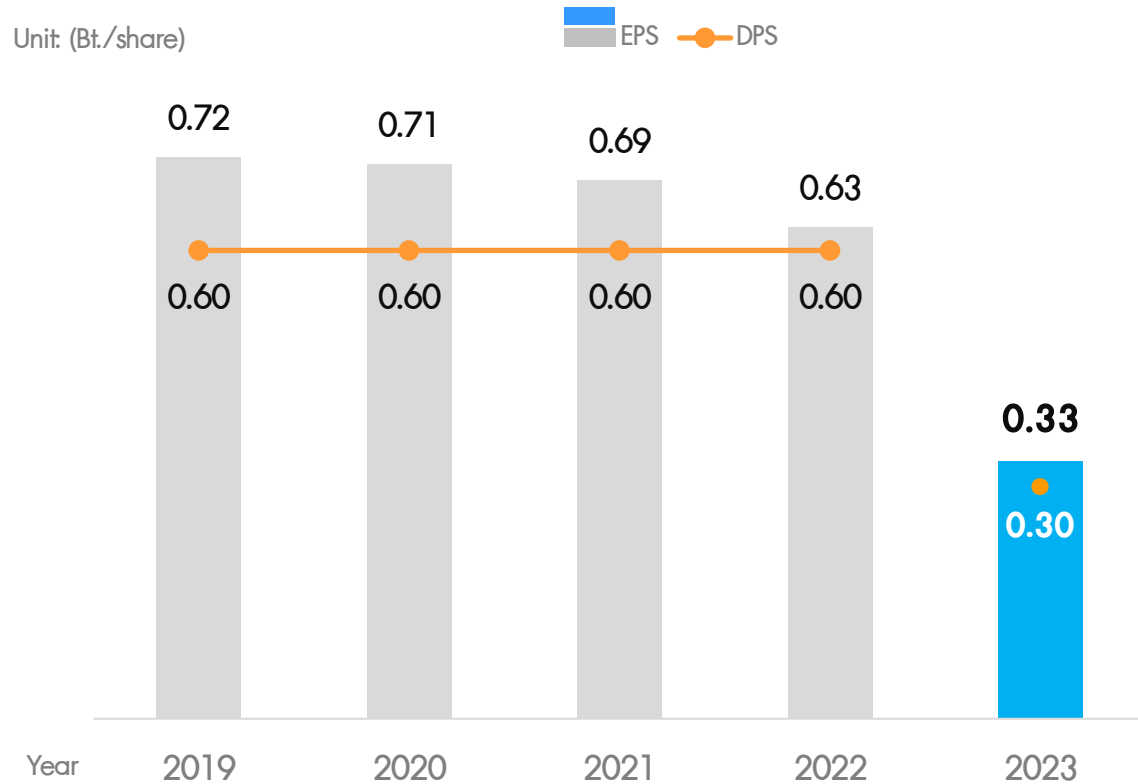
COGS	1H'2023	1H'2022	Changes	
			+ / (-)	%
	1,098.2	947.0	151.2	16.0

■ Admin. Expenses decreased by 6.3 MB (4.3%) YoY, mainly due to the decrease in CSR expenses.

Unit: MB

Admin. Expenses	1H'2023	1H'2022	Changes	
			+ / (-)	%
	140.1	146.4	6.3	(4.3)

Highlight – Interim Dividend Payment



- Dividend policy: Dividend payment is not less than 50% of its net profit after deduction of corporate income tax, statutory reserve, and other reserves required by terms of relevant agreements.

Particular	2023	2022	2021	2020	2019
Net profit (*)					
- Amount (MB)	1,336	2,520	2,749	2,850	2,855
- EPS (Bt./share)	0.33	0.63	0.69	0.71	0.72
DPS (Bt./share)					
- Dividend #1 (Interim)	0.30	0.30	0.30	0.30	0.30
- Dividend #2 (Year-End)	N/A	0.30	0.30	0.30	0.30
Total DPS	0.30	0.60	0.60	0.60	0.60
Dividend amount (MB)	1,197	2,394	2,394	2,394	2,394
Dividend/Net profit	89.6%	95.0%	87.1%	84.0%	83.9%

(*) = Separate Financial Statements



Dividend Payment
(Year-End)

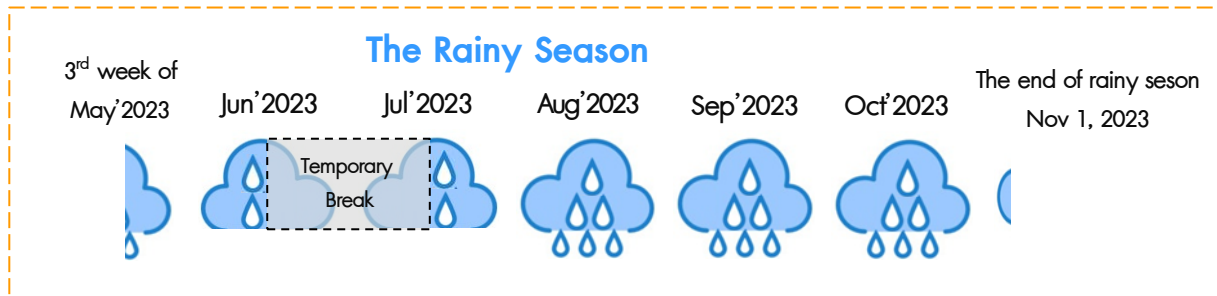
Excluding Dividend (XD) : Sep 5, 2023
Record Date (RD) : Sep 6, 2023
Payment Date : Sep 21, 2023

An aerial photograph showing a large water treatment facility with several rectangular basins and buildings, situated next to a wide river. The surrounding area includes green fields, some industrial structures, and a bridge in the distance. The sky is overcast.

Water Situation

Water Situation

- The rainy season began in the 3rd week of May 2023 and will end on Nov 1, 2023.
- The rainfall has decreased by 5% compared to the average amount.
- From August to October, Thailand experiences a high chance of a tropical cyclones and heavy rain.

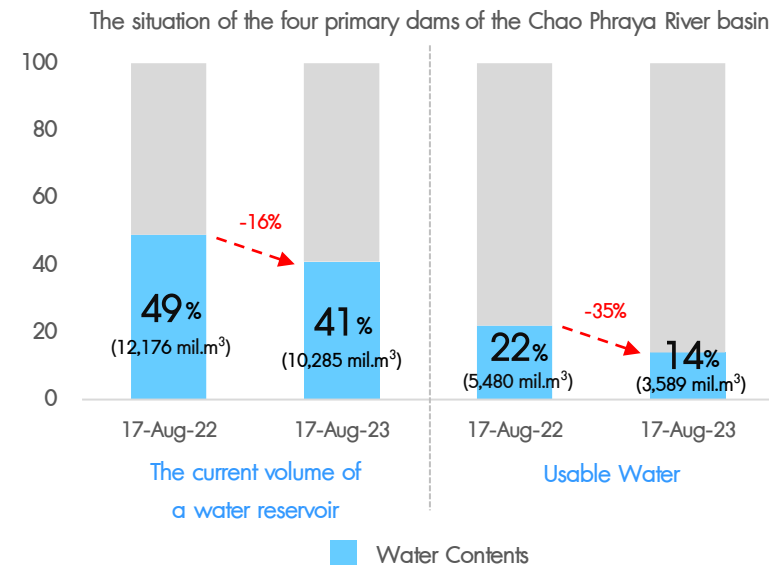
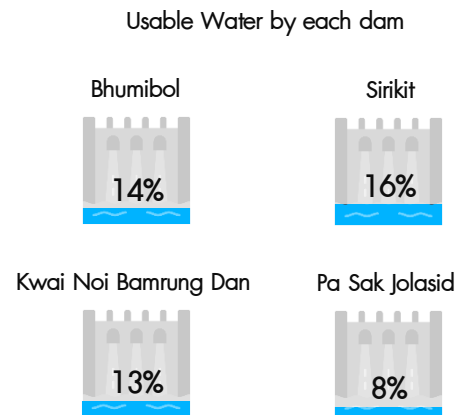


Water for consumption is a priority →



Ref: Thai Meteorological Department (TMD)

- The four main dams of the Chao Phraya river basin have 41% of the current volume of water in the reservoir and 14% of usable water. (RID)



The Chao Phraya River and Tha Chin River provide enough raw water for our production process.

An aerial photograph of a large industrial or utility facility. The facility includes several large rectangular solar panel arrays on the roofs of buildings, a central building with a blue and white striped roof, and various industrial structures and tanks. The facility is surrounded by greenery and a road.

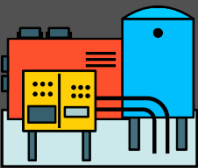
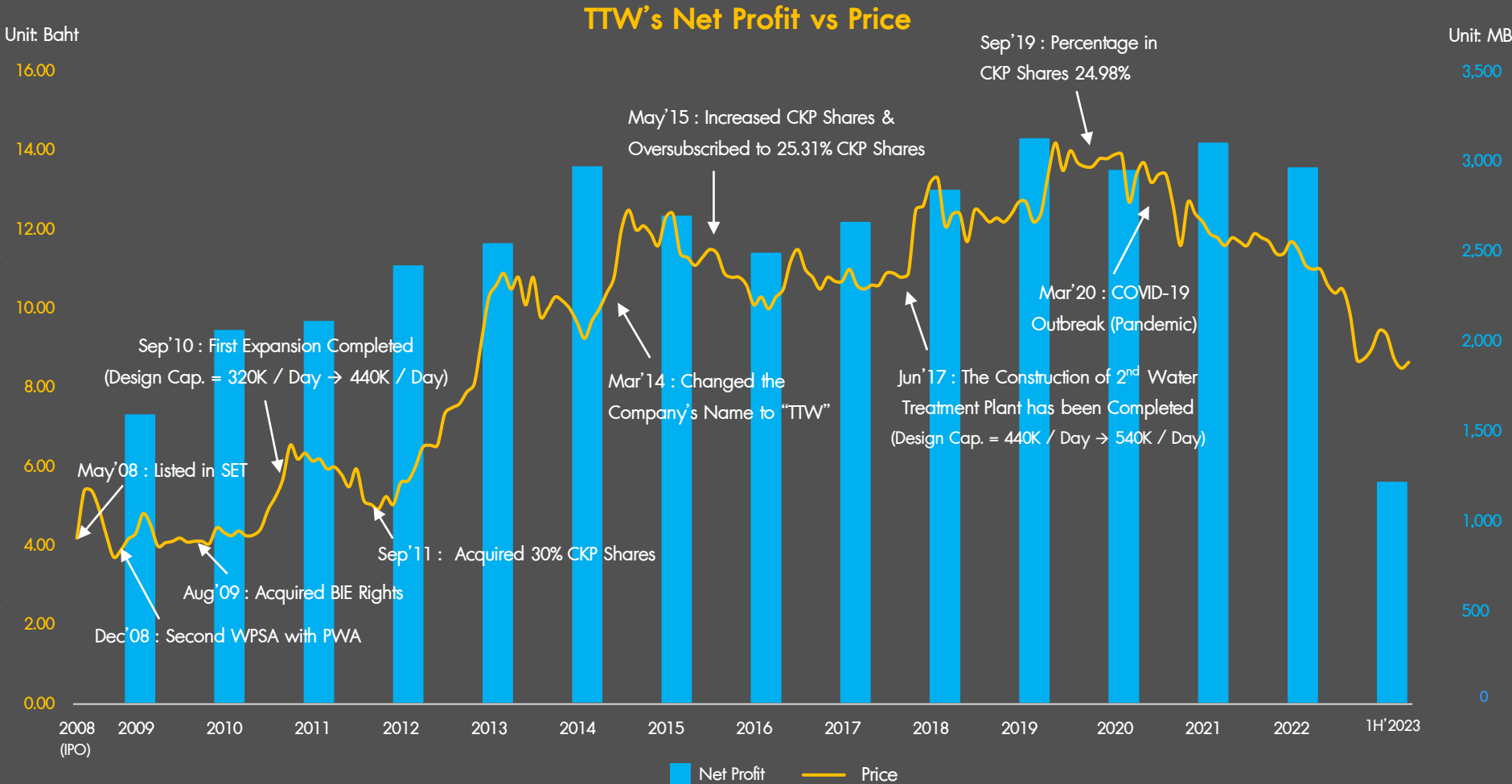
Company Overview

Company Overview – Key Milestone



- Sep'00 :
Company established & Entered into WPSA^(*) with PWA
- Jan'04 :
First Day of Sale (Design Cap. = 320K / Day)
- Jul'04 :
Official COD
- Feb'06 :
Acquired Water Flow Co., Ltd.
- Jul'06 :
Converted to Plc.
- Jun'07 / Dec'07 :
Acquired 89.15% + 8.85% PTW Shares (98%)

* WPSA = Water Purchase and Sale Agreement



Year	2008 (IPO)	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	1H'2023
Net Profit (MB)	-	1,593.6	2,062.9	2,113.0	2,421.6	2,544.8	2,973.9	2,697.0	2,492.0	2,663.2	2,841.9	3,127.9	2,951.5	3,103.9	2,967.0	1,219.7
Price (Baht)	4.20	4.46	6.35	5.05	9.20	10.00	11.60	10.60	10.70	12.60	12.40	13.80	12.40	11.40	9.00	8.65

Company Overview – Our Business



Produces and
Distributes
Tap water

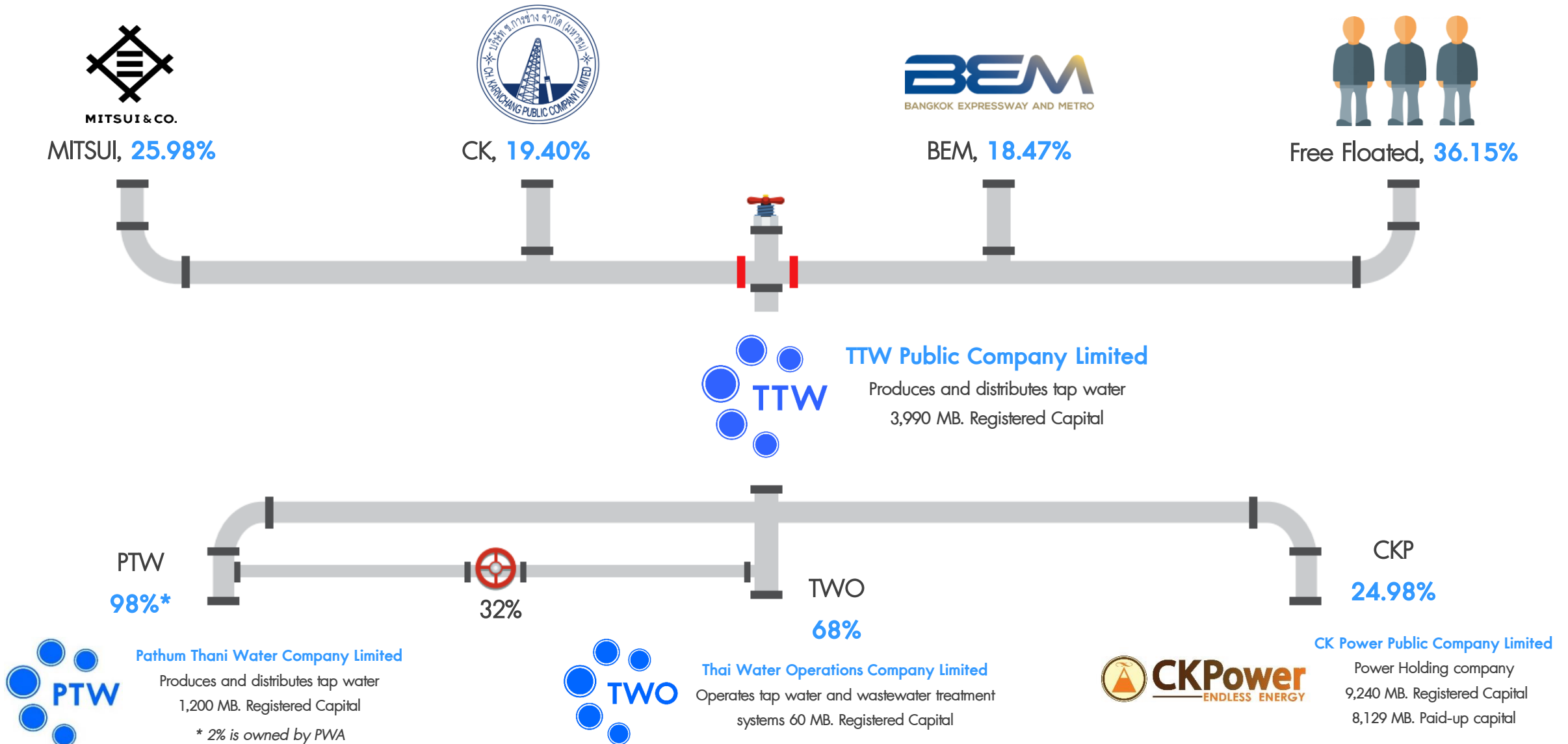


Operates
Tap water and
Waste water



Investment in
Other business

Company Overview – Shareholder Structure



*As of Jun 30, 2023

Company Overview – Current Project



1998 2000 2002 2004 2006 2008 2010 2012 2014 2016 2018 2020 2022 2024 2026 2028 2030 2032 2034 2036 2038 2040

TTW
PTW
BIE



Company	TTW	PTW	TTW
Business Service	Tap water Supply	Tap water Supply	Tap Water & Wastewater Management
Contract Type	BOO	BOOT	Rights (Operating Lease)
Contract Period	2004 – 2034 (30 yrs.)	1998 – 2023 (25 yrs.)	2009 – 2039 (30 yrs.)
Contract Customer	A Bulk Sale to PWA	A Bulk Sale to PWA	BIE
Investment Scheme	Production, Transmission and Distribution	Production and Transmission	N/A
Distribution Area	West Bangkok (Nakhon Pathom – Samut Sakhon)	North Bangkok (Pathum Thani – Rangsit)	BIE (Bang Pa-In Industrial Estate, Ayutthaya)
Design Capacity	*540,000 m³/day	488,000 m³/day	TW: ^(*) 48,000 m³/day, WW: ^(**) 18,000 m³/day

* TW = Tap Water Treatment

** WW = Wastewater Treatment

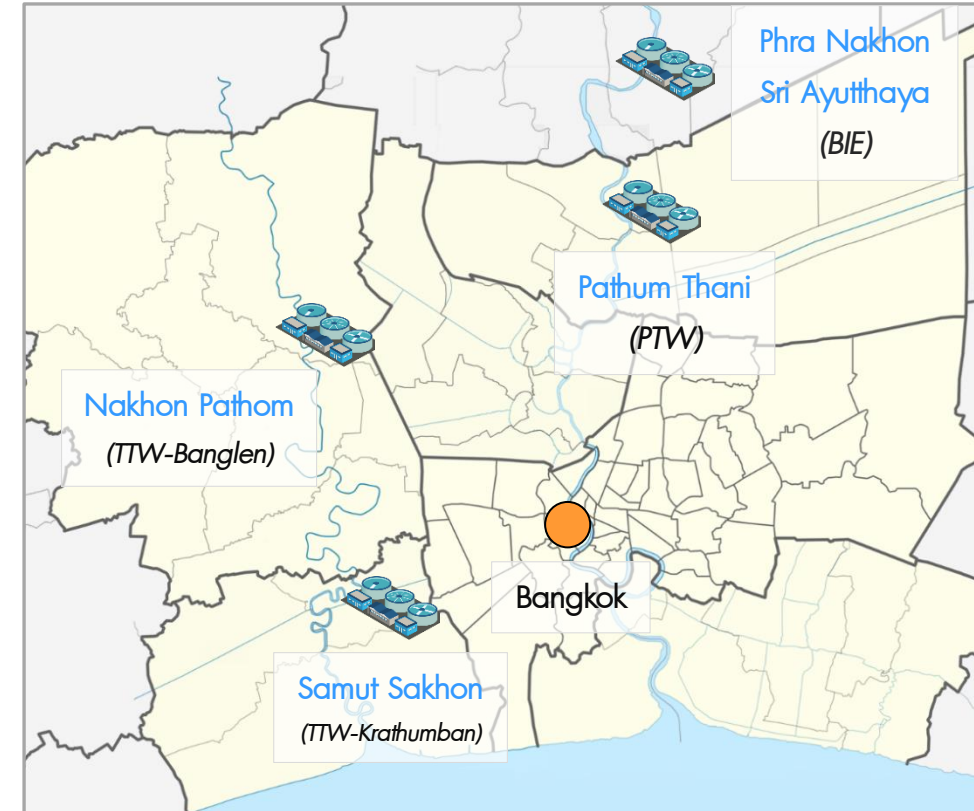
Company Overview - Location



- 3 Companies
- 5 Locations in Water Business



- 1 investment in an Energy Business



AMATA
WATER

O&M Contracts with Amata Water Co.,Ltd.

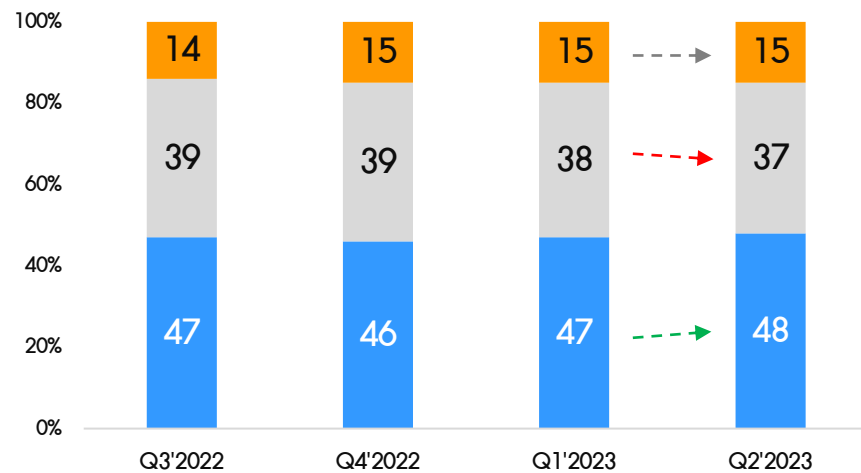
- Chonburi Tap Water Treatment : 32,400 m³/day
Wastewater Treatment : 4,500 m³/day
- Rayong Tap Water Treatment : 18,000 m³/day

Company Overview – Portion of End-Users



Samut Sakhon – Nakhon Pathom (%)

(West BKK)



■ Household ■ Industry ■ Commercial

- Thai Union Group
- Samut Sakhon Industrial Estate
- Sinsakhon Waterworks
- Pataya Food Industries
- Unicord
- Pakfood etc.

- Nadee Municipality (Waterworks)
- Office of President, Mahidol University (Salaya)
- Central Salaya / Central Mahachai
- Naval Education Department
- Samutsakhon Hospital
- Banphaeo General Hospital etc.

Serving over +2% YTD

Almost 616K users

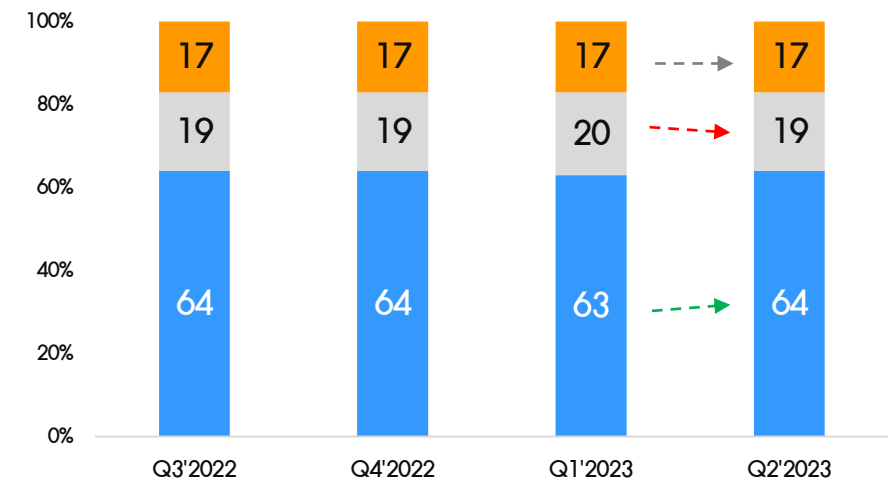
or over millions of lives

(As of Jun 30, 2023)



Pathum Thani - Rangsit (%)

(North BKK)



■ Household ■ Industry ■ Commercial

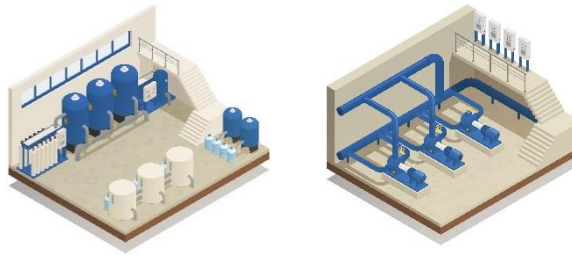
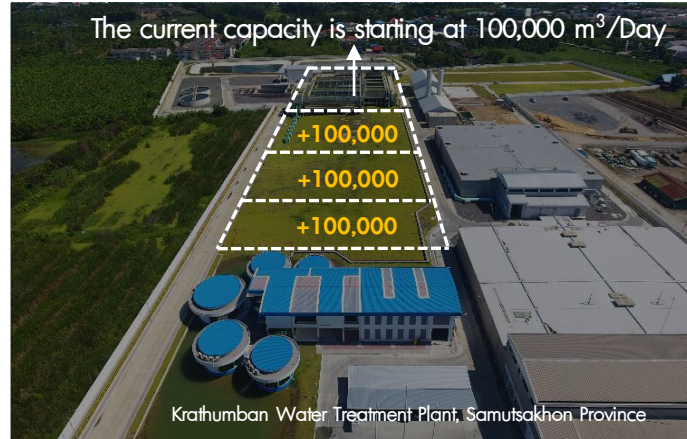
- Plum Condo Paholyothin 89
- Pinehurst Willz
- Sansiri etc.

- Klongluang Utilities
- Thainamthip Manufacturing
- Asian Institute of Technology
- Thai Agro Exchange (Talaadthai)
- Thai Aqua Fresh
- CPRAM
- Prathum Thani Brewery etc.

- Thammasat University
- Future Park Rangsit (Rangsit Plaza)
- Rangsit University
- Directorate of Civil Engineering
- Zeer Rangsit (Zeer Property)
- NSTDA etc.

Example
of End-Users

Company Overview – The Leading Position of Water Business in Thailand



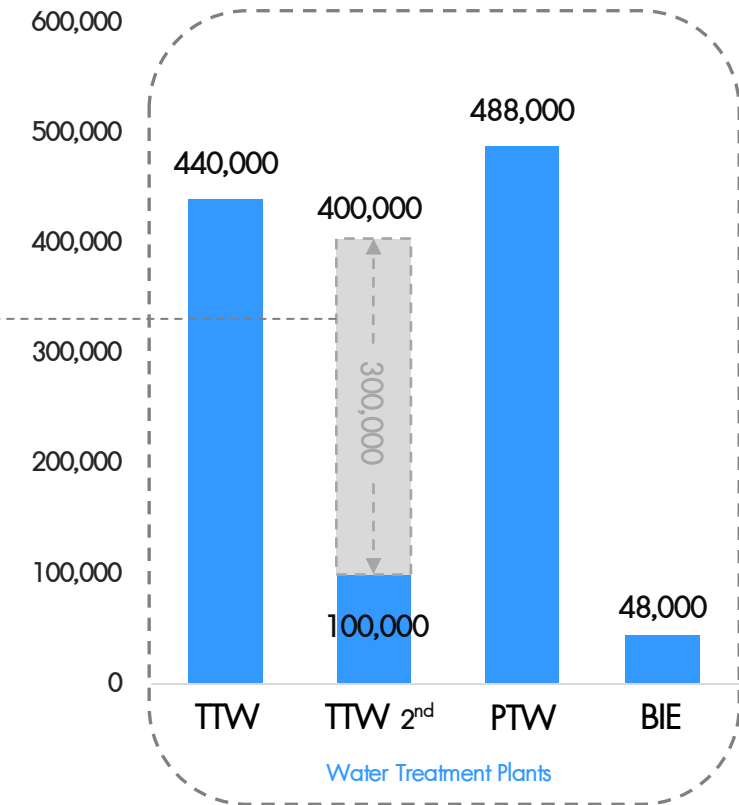
Krathumban Water Treatment Plant (TTW 2nd)



Design Capacity of TTW Group

Unit: m³/day

1,076,000 m³/day

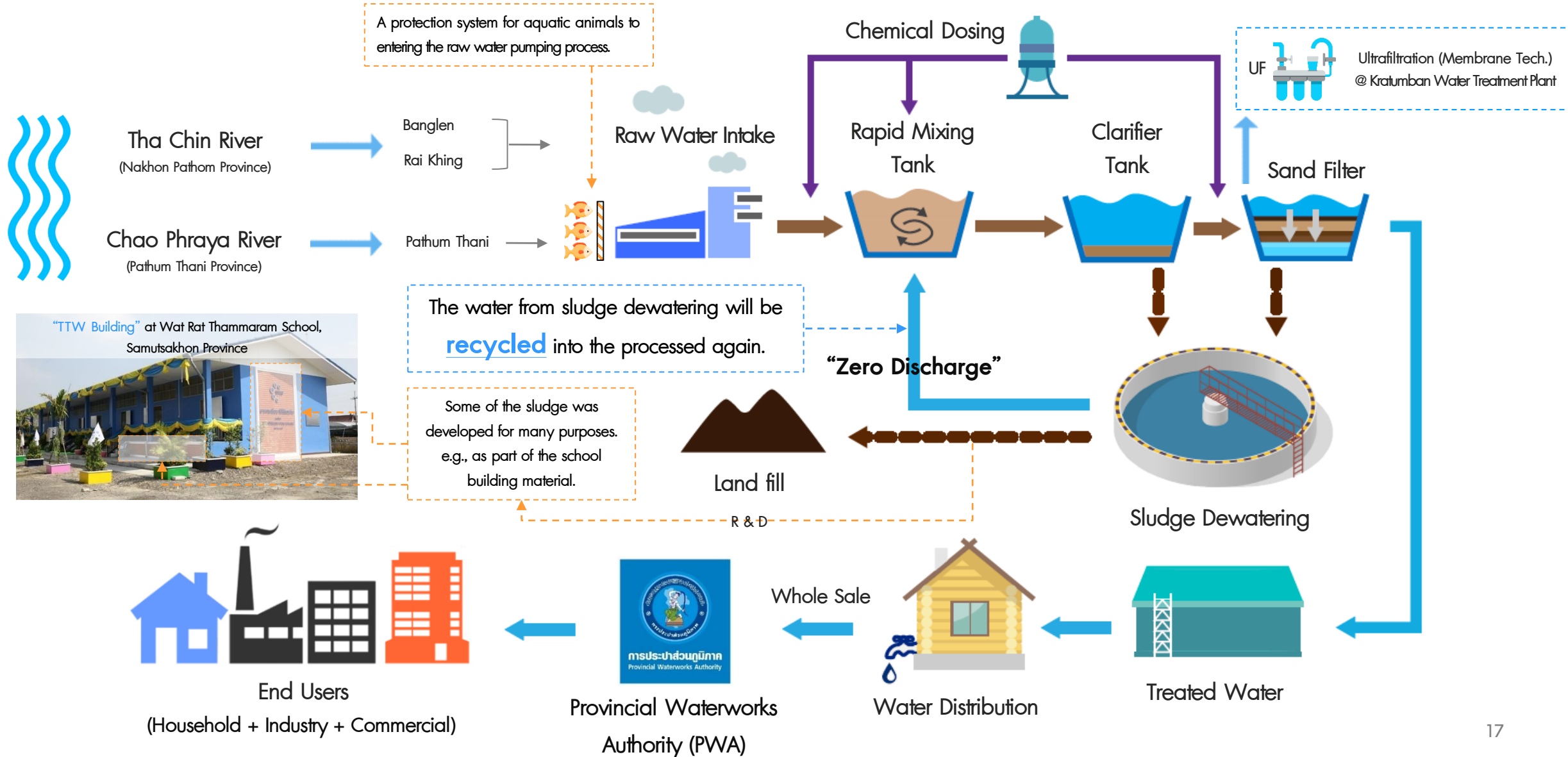


■ At present ■ In the future

The **Krathumban Water Treatment Plant** (TTW 2nd) can be expanded the design capacity up to **400,000 m³/day**

- **Hybrid Technology:** Conventional + Ultrafiltration (Membrane Technology)
- **Cleaner:** Because the membrane pore size is only 0.01 microns so it can effectively eliminate contaminants viruses and bacteria
- **Safer:** Less chemical usage

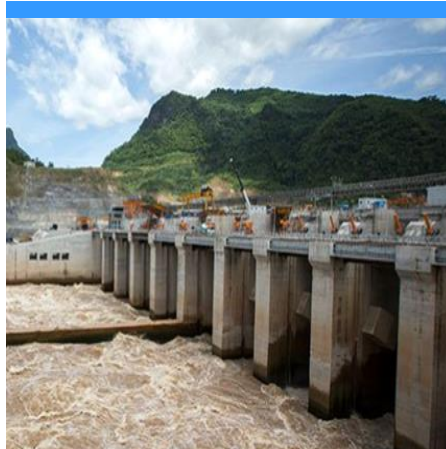
Company Overview – Tap Water Production Process



Company Overview - Investment in Other Business



24.98%



Capacity 3,360 MW
Equity 1,559 MW
Hydro Power Business

- Southeast Asia Energy Co., Ltd. (SEAN)

75%

- Nam Ngum 2 Power Co., Ltd. (NN2)

615 MW

- Xayaburi Power Co., Ltd. (XPCL)

1,285 MW

- LuangPrabang Co., Ltd. (LPCL) (*)

1,460 MW

61.3%

42.5%

50%



Capacity 238 MW
Equity 155 MW
Co-Generation Power Business

- Bang Pa-In Co-Generation Co., Ltd. (65%)

- Phase 1 (BIC 1)

118 MW

- Phase 2 (BIC 2)

120 MW



Capacity 29 MW
Equity 19 MW
Solar Power Business

100%

- Bangkhenchai Co., Ltd. (BKC)

8 MW

100%

- BKC Solar Rooftop and Solar Farm Projects

7 MW

30%

- Chiangrai Solar Co., Ltd. (CRS)

8 MW

30%

- Nakhon Ratchasima Solar Co., Ltd. (NRS)

6 MW



Total Installed Capacity

3,627 MW

Total Equity Capacity

1,733 MW

TTW holds 24.98%

433 MW

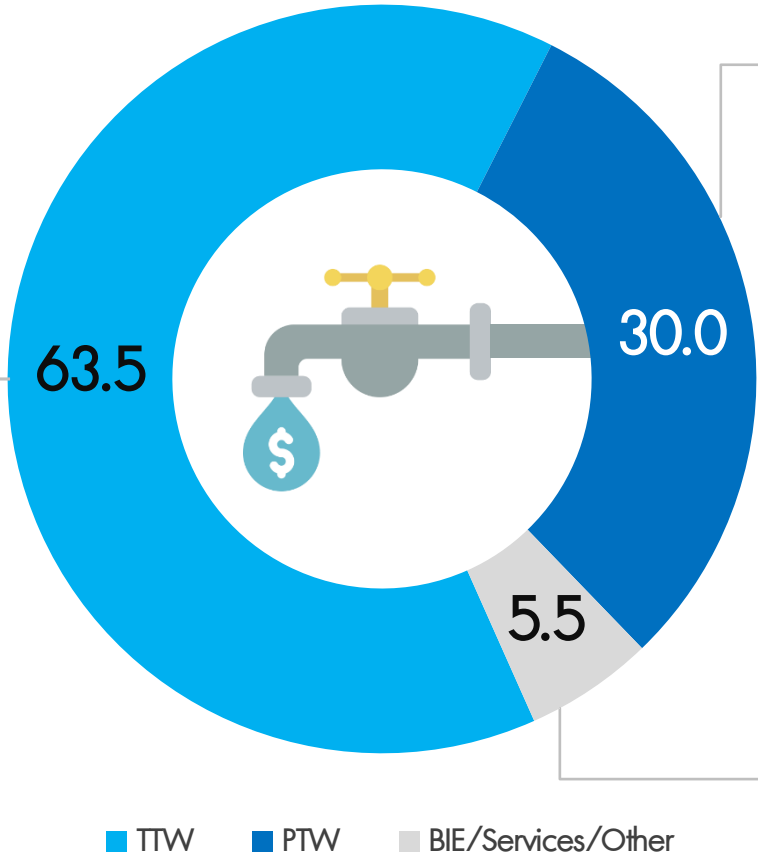
Source : CKPower, as of Aug 16, 2023

(*) Scheduled Commercial Operation Date: Early 2030



Operating & Financial Performance

Operating & Financial Performance – Revenues Breakdown



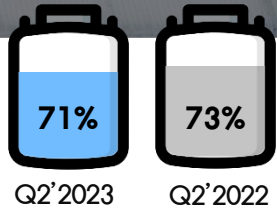
*As of June 30, 2023, not including the profit (loss) sharing from the associate company.

Operating & Financial Performance



TTW Sales Volume

(Daily Average)



Unit: m³

460,000

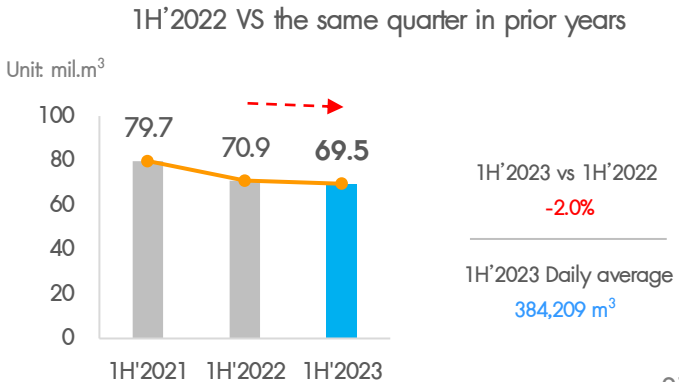
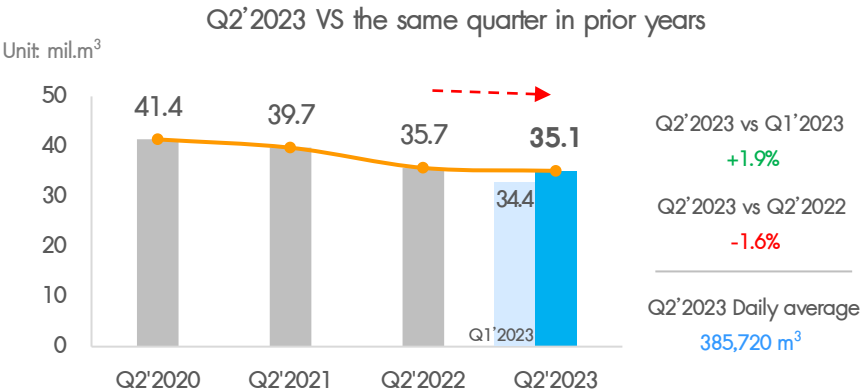
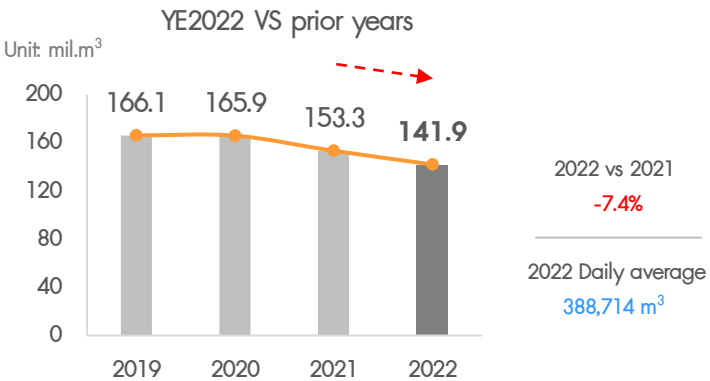
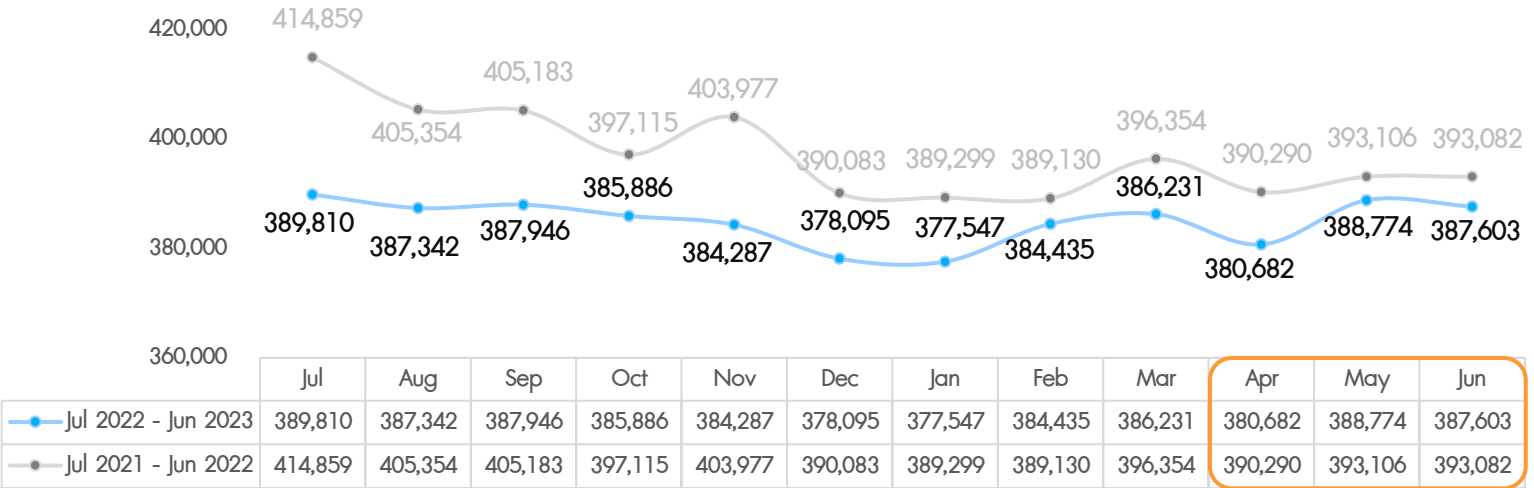
440,000

420,000

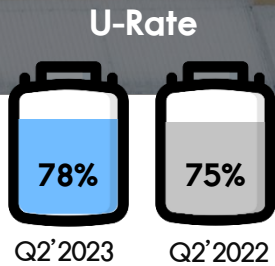
400,000

380,000

360,000



Operating & Financial Performance



PTW Sales Volume

(Daily Average)

Unit: m³

400,000

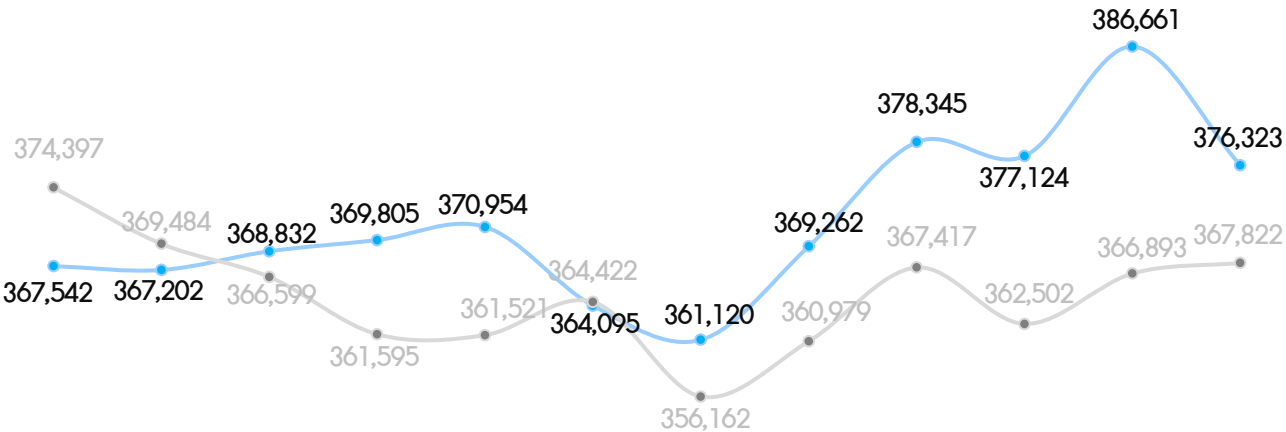
390,000

380,000

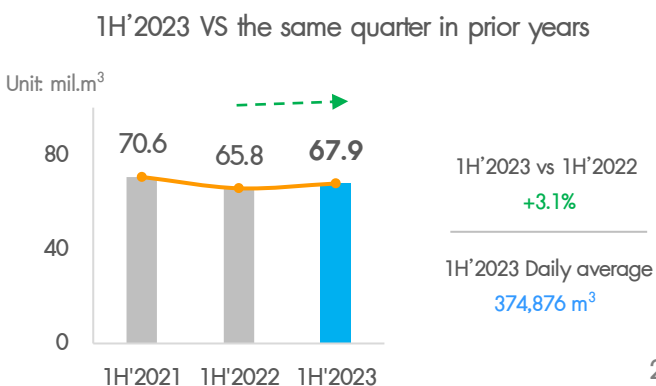
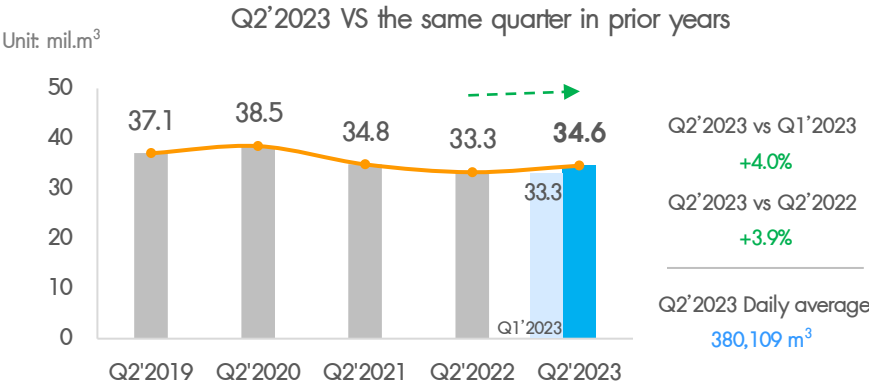
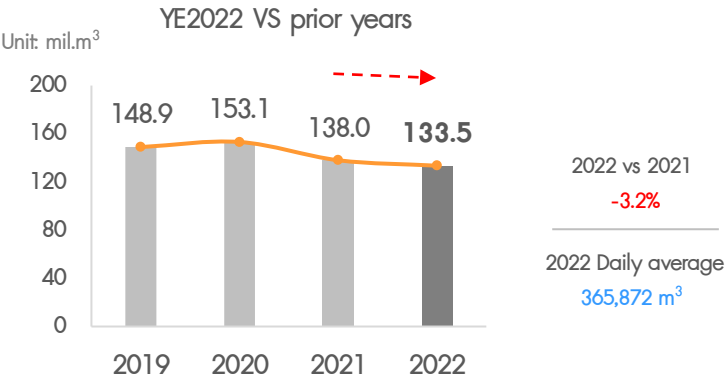
370,000

360,000

350,000



	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Jul 2022 - Jun 2023	367,542	367,202	368,832	369,805	370,954	364,095	361,120	369,262	378,345	377,124	386,661	376,323
Jul 2021 - Jun 2022	374,397	369,484	366,599	361,595	361,521	364,422	356,162	360,979	367,417	362,502	366,893	367,822

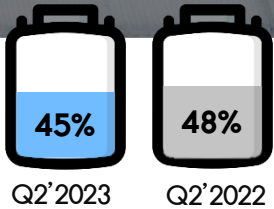


Operating & Financial Performance



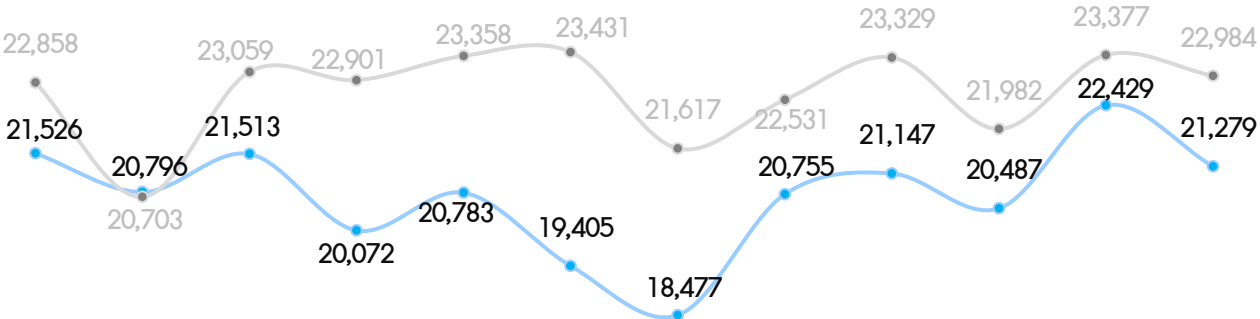
BIE Sales Volume

(Daily Average)



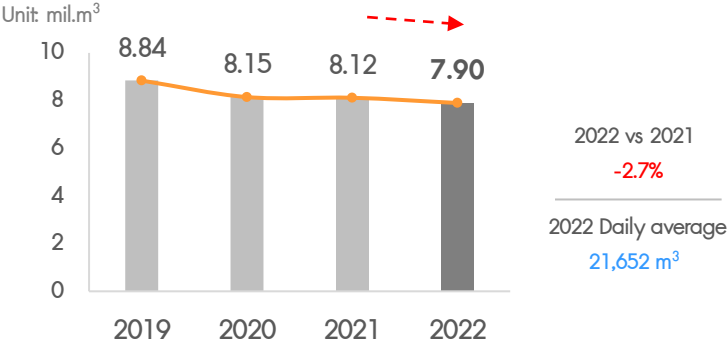
Unit: m³

26,000
25,000
24,000
23,000
22,000
21,000
20,000
19,000
18,000
17,000

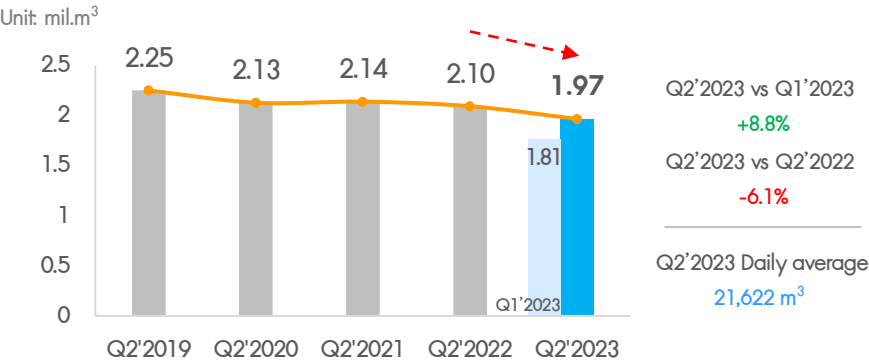


	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Jul 2022 - Jun 2023	21,526	20,796	21,513	20,072	20,783	19,405	18,477	20,755	21,147	20,487	22,429	21,279
Jul 2021 - Jun 2022	22,858	20,703	23,059	22,901	23,358	23,431	21,617	22,531	23,329	21,982	23,377	22,984

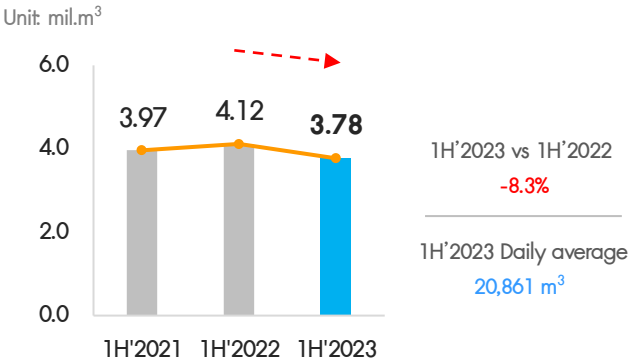
YE2022 VS prior years



Q2'2023 VS the same quarter in prior years



1H'2023 VS the same quarter in prior years



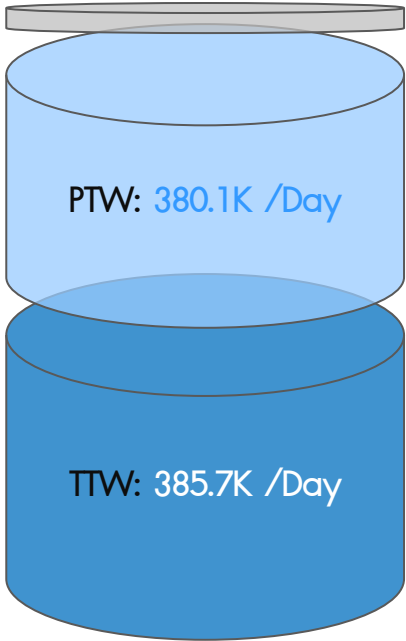
How much room to grow?



Q2'2023
Daily Average

BIE: 21.6K /Day

Unit: m³



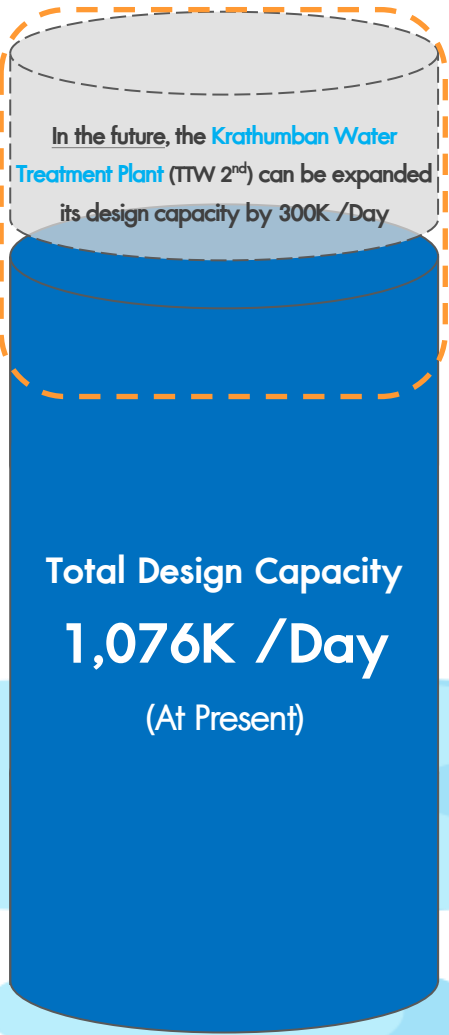
300K /Day

288.6K /Day

(Remaining Capacity = 26.8%)

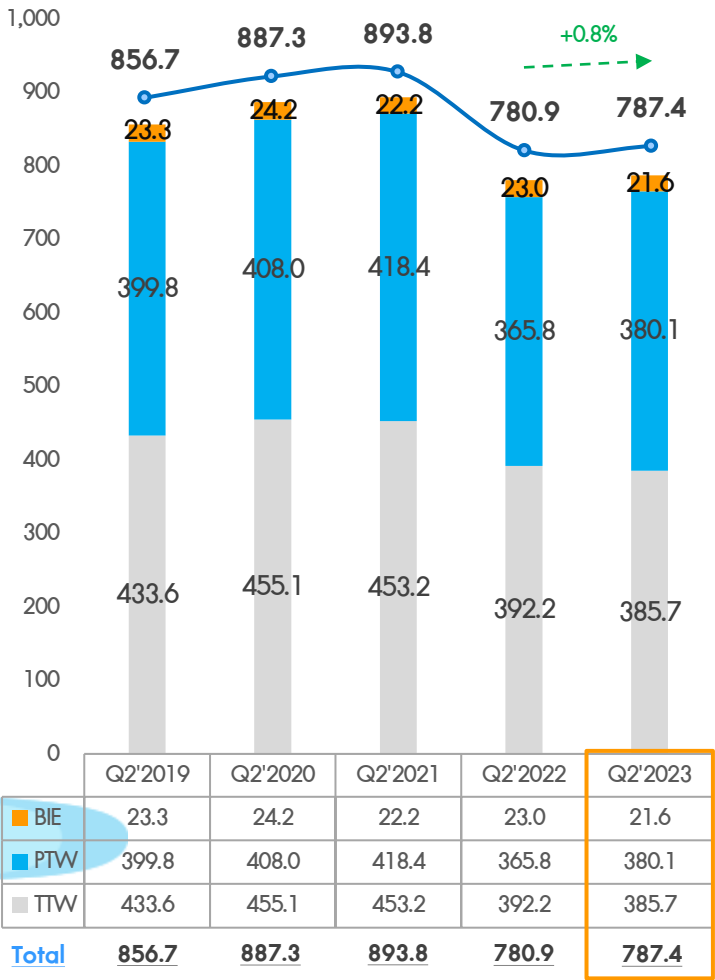
787.4K
/Day

(U-Rate = 73.2%)



Daily Average by Quarterly

Unit: 1,000 m³



Operating & Financial Performance

Total sales of treated water

Unit : MB



Q2'2023	Q2'2022	Changes	
		+ / (-)	%
1,488.3	1,396.8	91.5	6.6

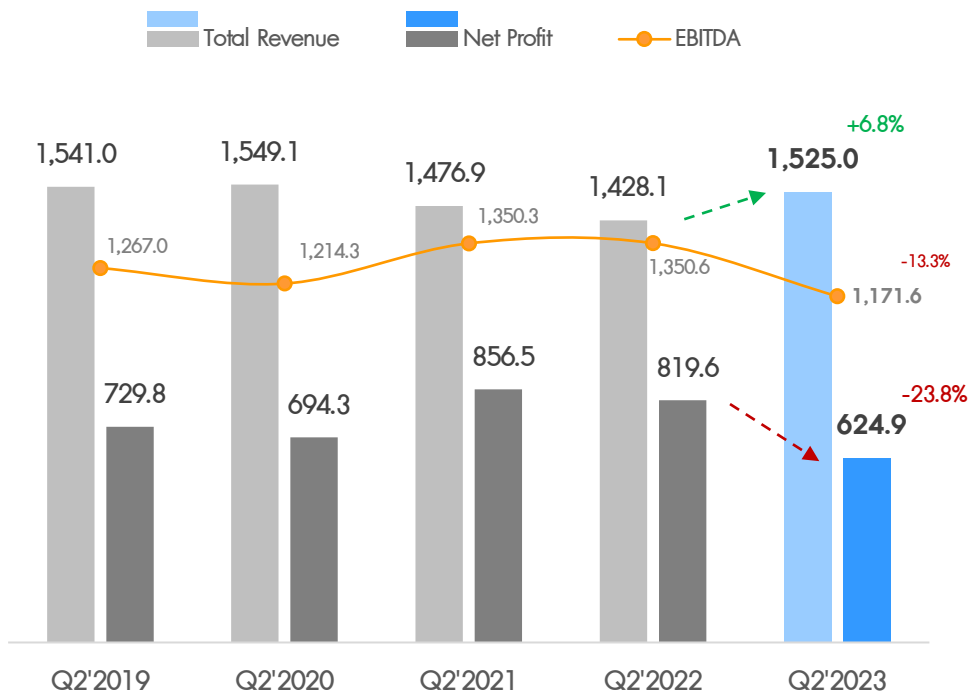
1H'2023	1H'2022	Changes	
		+ / (-)	%
2,940.2	2,771.6	168.6	6.1

2022	2021	Changes	
		+ / (-)	%
5,574.9	5,682.4	(107.5)	(1.9)

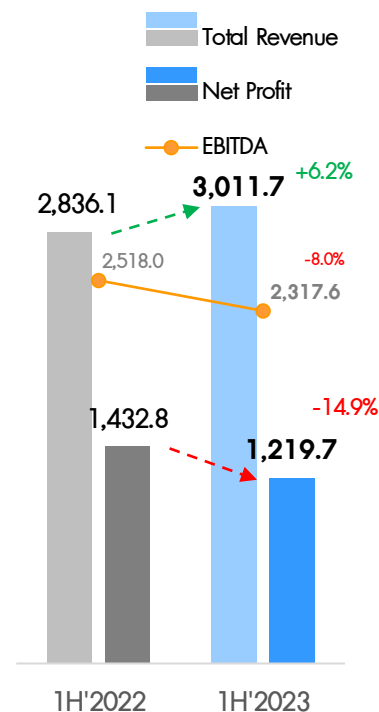
Consolidated - Financial Performance

Unit : MB

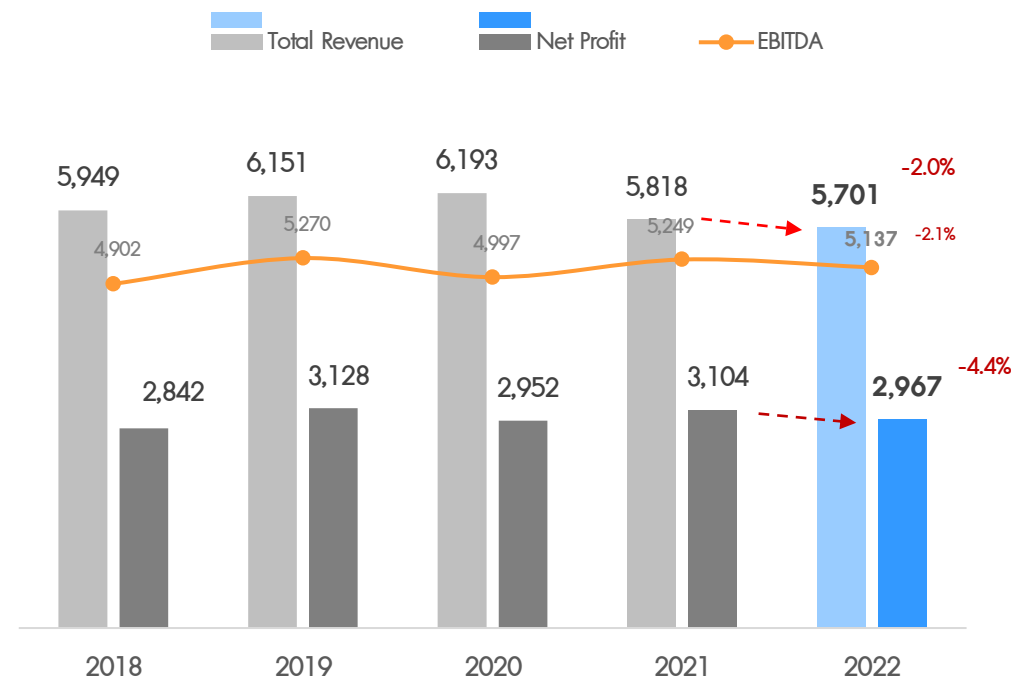
Q2'2023 vs Same period last year



1H'2023 vs 1H'2022



2018 - 2022

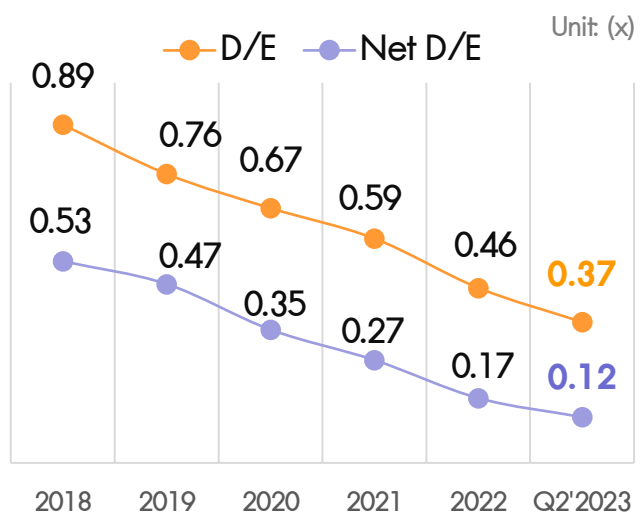
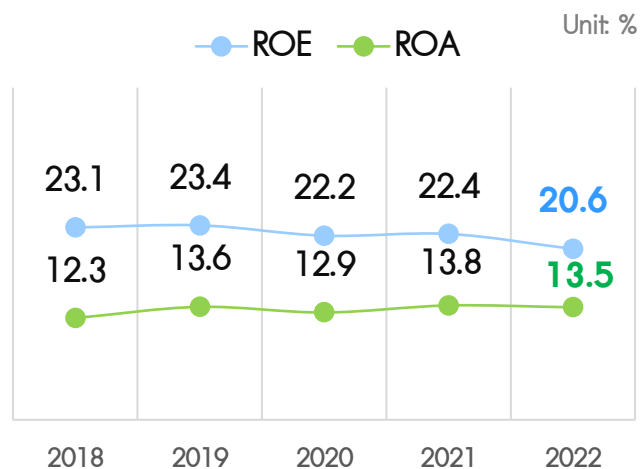


- Annual selling price adjustment by the Consumer Price Index. (CPI)
- The sales of treated water drove a 6.2% increase in Total Revenue, amounting to 175.6 MB.
- Total Cost of Sales and Services increased mainly due to the Ft change rate of electricity and higher chemical costs.
- The decline in the Profit-sharing resulting from the investment in the associate company. (CKPower)

As of Jun 30, 2023

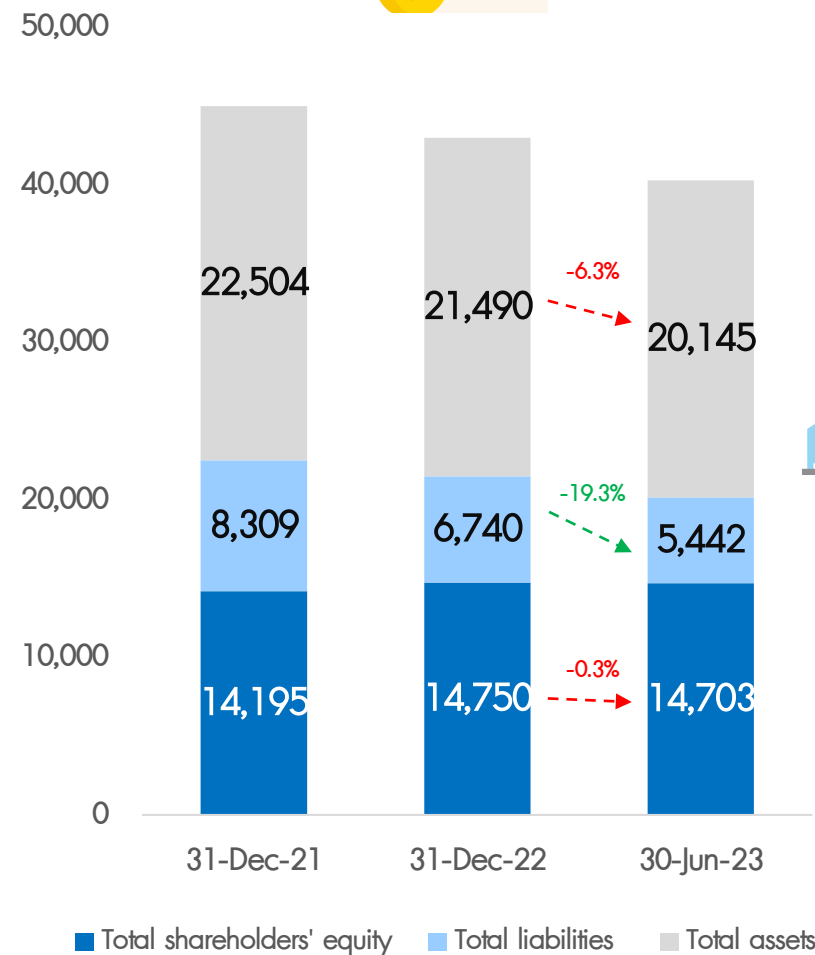


Financial Ratios



Consolidated Financial Position

(Unit : MB)



Total assets decreased by 1,344.7 MB or 6.3% mainly due to the sale of financial assets for debentures redemption.

Total liabilities decreased by 1,297.7 MB or 19.3%, mainly due to

- The debenture redemption of 1,000 MB.
- The loan repayment of 330 MB.

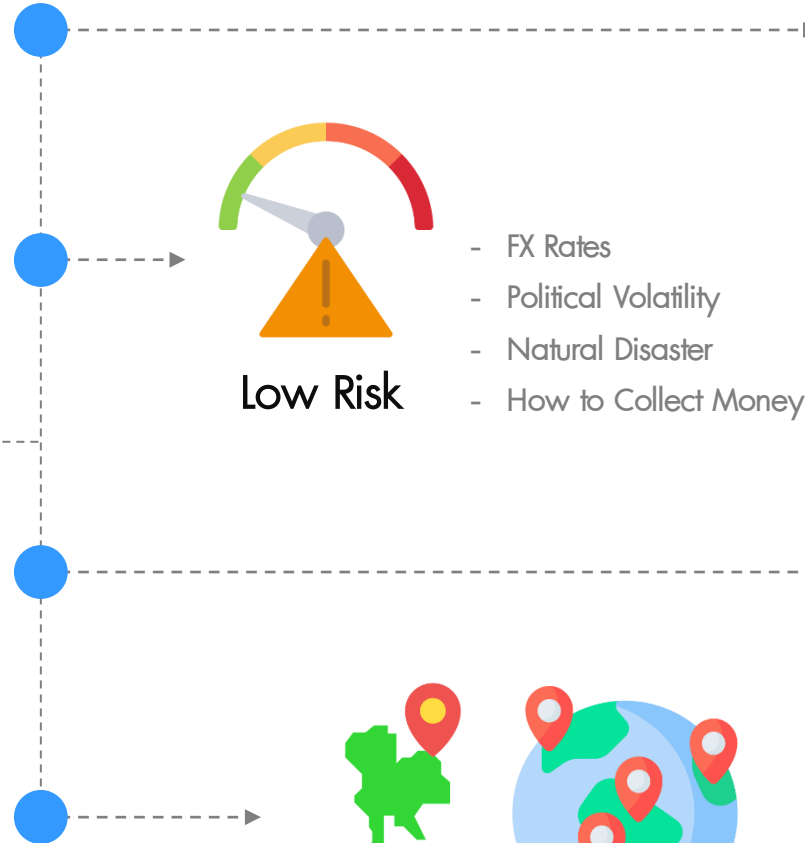
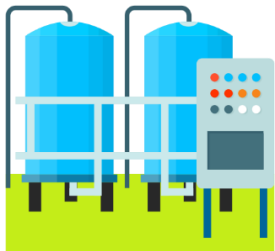
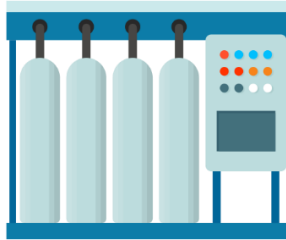
Total shareholders' equity decreased by 47 MB or 0.3% due to the net profit from operations and dividend payment.

An aerial photograph of a wastewater treatment plant. The image shows several large, rectangular concrete basins filled with water. In the center, a narrow walkway made of bricks and gravel runs between two basins, with a worker wearing a white hard hat and a blue shirt walking on it. The basins are separated by concrete walls, and there are yellow railings on the upper levels. The water in the basins is dark, and there are some green plants growing along the edges. The overall scene is industrial and organized.

Outlook & Beyond

We're looking for a Water Business that suits us best.

- Tap Water Business
- Wastewater Treatment Business
- Comprehensive Water Management



Right Size

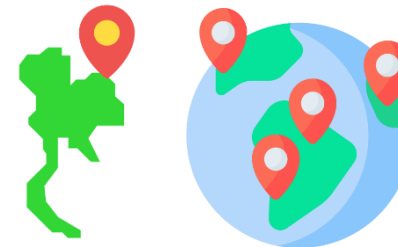


Low Risk

- FX Rates
- Political Volatility
- Natural Disaster
- How to Collect Money from Clients



Sufficient water resources.

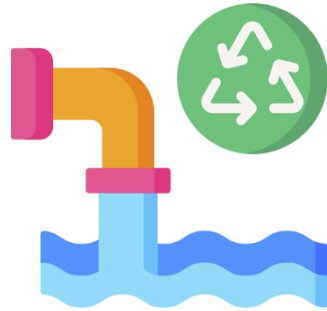


Domestic & Overseas

Outlook & Beyond - Sustainable Development Goals



Water Recycling



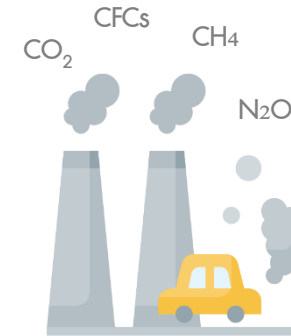
Goal
not less than

2%

The water Recycling proportion is not less than 2% of the total amount of water entering the production process.

Greenhouse Gas Emissions (GHG)

Scope 1-3



Goal (2022-2025)
decrease of not less than

0.03%

The GHG emission proportion of the Banglen, Krathum Baen, and Pathum Thani Water Treatment Plant will decrease by not less than 0.03%.

Solar Rooftop (2022)



We generated **4.4** mil. kWh /yrs. ^{+3.6% YoY}
and reduced GHG Emissions over **2,158** tCO₂e/yrs. ^{+1.9% YoY}

We will be generated electricity from the Solar Rooftop system totaling over 4.4 mil.kWh/year, and reduced GHG emission by over 2,158 tCO₂e/year.

Electricity Consumption



Goal (2022-2025)
decrease of not less than

1%

The electricity consumption at the Banglen, Krathum Baen, and Pathum Thani Water Treatment Plant will decrease by not less than 1%.



TTW has received the announcement results of the “Carbon footprint of the Organization for the year 2022” from Thailand Greenhouse Gas Management Organization (TGO) for assessing greenhouse gas emissions in the water treatment process. This assessment covers Greenhouse Gas (GHG) emissions in 3 Scopes, consisting of...

- Scope 1 (direct GHG emissions)
- Scope 2 (indirect GHG emissions from energy use)
- Scope 3 (indirect GHG emissions from other energy use).



TTW received a “Carbon Footprint for Organization (CFO) certification”, calculated from the amount of greenhouse gases emitted from various activities, which are covered both direct greenhouse gas emissions (Scope 1) and indirect greenhouse gas emissions from energy use (Scope 2) of the company in the year 2022 amounted to 69,429 tCO₂e.



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Q & A





Appendixes

- Appendix 1 Message from Chairman of the Board of Directors
- Appendix 2 Loans and debentures outstanding balances (As of Mar 31, 2023)
- Appendix 3 Awards & Recognitions
- Appendix 4 Quality Water for a Better Life
- Appendix 5 How do we solve the saltwater intrusion problem?
- Appendix 6 Form 56-1 One Report & Sustainability Report

Appendix 1 – Message from Chairman of the Board of Directors

Although Thailand has overcome the challenges of the critical period of the COVID-19 pandemic, the country's economic and social situation remains continually affected by the severity of the pandemic, and the country has been further affected by the impacts of the Ukraine-Russia war on the global supply chain. In 2022, TTW stood by employees, customers, trade partners, shareholders, and stakeholders by sufficiently and consistently distributing quality tap water to water users in every sector as part of our promotion and support for the business, industrial, and tourism sectors, including small and medium enterprises (SMEs) to continue moving forward while retaining the ability to compete, generate income and return to economic growth. The Company's strong performance is reflected by the following indicators received by the Company from various relevant organizations:

In terms of corporate governance, TTW was evaluated at the level of excellence in the Corporate Governance Report of Thai Listed Companies 2022 by the Thai Institute of Directors with a full score of 100 points (5 coins) on the AGM Checklist 2022 by the Thai Investors Association. Internationally, we were assessed for corporate governance at the ASEAN Asset Class level by the ASEAN Corporate Governance Scorecard (ACGS) and we aim towards another level of corporate governance.

In terms of finance, based on the Company's strong financial position and ability to generate good cash flow, the Company has been assigned a TRIS rating of "AA-" with a "Stable" outlook for the 15th consecutive year by Thai Rating and Information Services Co., Ltd. In addition, the Company retains some cash reserves to reduce the risk of emergency situations or loss of liquidity by repaying principal sums in loan agreements and redeeming mature debentures while reducing unnecessary expenses. This enabled us to manage financial costs more effectively. In addition, profit shares from investments in affiliates with outstanding performance has helped support the Company's bottom line performance to grow against a backdrop of crises for another year.

In terms of sustainability, TTW is listed on the SETTHSI and is one of 170 listed companies selected to be on the Thailand Sustainability Investment of 2022 by the Stock Exchange of Thailand (for the 7th consecutive year). In addition, the Company received the Sustainability Disclosure Award 2022 from the Thaipat Institute for the 4th consecutive year, reflecting the role of our performance in sustainable development in every dimension including the environmental, social, and governance (ESG) aspects.

The Company assessed its greenhouse gas emissions (GHG) from indirect business operations (Scope 2) caused by outside electricity consumption in water production and distribution processes. For 2022-2025, our goal is to reduce greenhouse gas emissions and electricity consumption by no less than 0.03 percent and 1 percent, respectively, in addition to using electricity from clean energy sources such as solar rooftops in support of Thailand's goals and international goals to fully solve the problems of climate change by all means and move towards clean energy by achieving net-zero carbon dioxide emissions and carbon neutrality by 2050 and 2065, respectively.

In 2023, Thailand will continue to face challenges from economic turmoil, prolonged war, and higher costs of living, including fierce technological competition in the business world where nothing stays the same. As the country's major private producer of tap water, TTW is confident in our capacity and readiness for business operations with the aim of supporting every sector in line with the Company's mission of "growing on a firm, continuous and sustainable basis in order to accomplish our vision through the balance of interests among customers, employees, business partners, shareholders, communities, and environments." I am confident that there is no problem we cannot overcome, as long as we all cooperate and move forward together. I also believe that it will not be long before we envision Thailand's secure progress again.

On behalf of the Board of Directors, Executives, and Employees of TTW Public Company Limited, I would like to thank our shareholders, business partners, affiliates, communities, and supporters in all sectors for their constant trust and belief in the performance of TTW. In closing, I wish everyone would overcome every crisis and Thailand would move forward again in the future with smiles and better living conditions - that is my dream for all of us once these crises are over.



Dr. Thanong Bidaya
Chairman of the Board of Directors



Appendix 2 – Loans and debentures outstanding balances



Lists	Start date	End date	Interest rate	Outstanding balances (MB)
Long-term loan -KTB (Total loan 2,760 MB)	9 May 2020	30 Jun 2026	2.63%	1,410
Long-term loan - BAY (Total loan 1,000 MB)	29 Apr 2022	30 Apr 2027	3.19%	800
Total loans			2.83%	2,210
Debentures #255A	21 May 2015	21 May 2025	3.98%	1,400
Debentures #272A	20 Dec 2019	20 Feb 2027	2.41%	1,000
Total debentures			3.33%	2,400
Grand total			3.09%	4,610

- The current portion of long-term loans: 660 MB.
- The current portion of debentures: -

*As of Jun 30, 2023

Appendix 3 – Awards & Recognitions



TTW was selected into the “**SETTHSI Index**” for calculating the index during 2H’2023 by the Stock Exchange of Thailand (SET).

*Published on Jun 30, 2023



สมาคมส่งเสริมพลังงานไทย
THAI INVESTORS ASSOCIATION

TTW received **100 scores** (Full score) from the Annual General Meeting Assessment 2023 (or **AGM Checklist**) By the Thai Investors Association (TIA).

*Published on Aug 9, 2022



TTW was selected as 1 of 170 listed companies engaging in the “**Thailand Sustainability Investment 2022**” (THSI) by The Stock Exchange of Thailand. (For 7 consecutive years)

*Published on October 10, 2022



Year : 2022
Type of Credit : Company Rating / Issue Rating
Rating Agency : Tris Rating
Credit Rating : **AA-**
Rating Outlook : **Stable**

	2008	2009 - 2022
Company Rating	AA-/Stable	AA-/Stable
Issue Rating		AA-/Stable

*Published on Nov 29, 2022



TTW was classified CG scoring on the Corporate Governance Report of Thai Listed Companies 2022 (CGR 2022) as “**Excellent**” by the Thai Institute of Directors Association.

*Published on Oct 27, 2022



TTW is among 76 listed companies that received the “**ASEAN Asset Class PLCs Award**” from the 2021 ASEAN CG Scorecard Project. The project is hosted by the Securities and Exchange Commission (SEC) and Thai IOD in collaboration with capital market organizations in 6 ASEAN countries to help raise the quality of supervision of business operations of listed companies in ASEAN to meet international standards.

*Published on Dec 1, 2022



TTW was selected as 1 of 18 listed companies in the “**FTSE SET Shariah Index**” effective date on December 19, 2022, until the next review.

*Published on Dec 6, 2022



TTW received the “**Sustainability Disclosure Award 2022**” from Thaipat Institute for 4 consecutive years, in recognition of its excellent public disclosure of company performances and coverage of its Environmental, Social and Governance (ESG).

*Published on Dec 21, 2022

Appendix 4 – Quality Water for a Better Life



TTW regards the importance of the good quality of tap water and services that we provide to PWA and tap water consumers. Apart from close control on the quality of water at all steps of production.

TTW also provided cooperation to PWA in the examination of water samples, collected from water users in each service areas in laboratories to ensure that the quality of tap water, distributed to downstream users are consistent with that of the water produced by TTW.

At the same time, TTW also provided advice to the water users who requested us to examine the quality of downstream water free of charge. This is because we believe that **“Quality Water for a Better Life”**

💧 Tap Water Quality Report
<https://www.ttwplc.com/en/download/tap-water-quality>

Appendix 5 - How do we solve the saltwater intrusion problem?



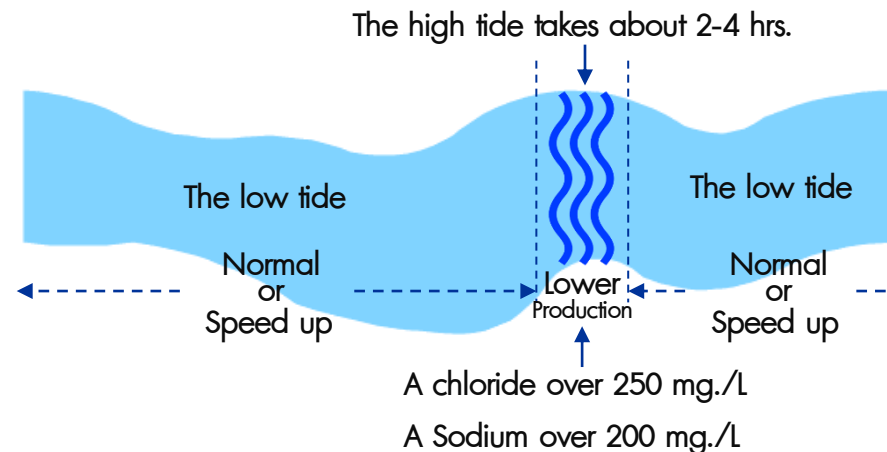
The Saltwater Intrusion Problem

Fact:

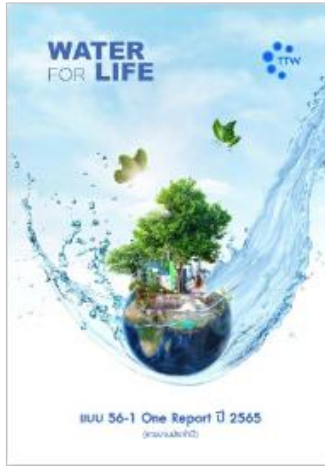
- The salty water situation is a seasonal factor.
- The chloride in the river will high during the high tide of each day and takes about 2 - 4 hrs., and then the level will get back to normal.

TTW's Solution:

An emergency plan during the raw water having a chloride level over 250 mg./L, we will lower our production and speed up the process during low tide to compensate with lower production during high tide. Thus the amount of chloride in water from our plant will not exceed the stated WHO's Standard.



Appendix 6 – Form 56-1 One Report & Sustainability Report



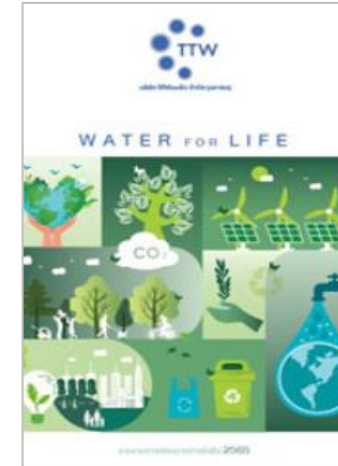
Form 56-1 One Report (Annual Report)



[Thai Ver.](#)



[Eng Ver.](#)



Sustainability Report



[Thai Ver.](#)



[Eng Ver.](#)