
SET Awards 2024: Sustainability Excellence



AMATA

POSSIBILITIES HAPPEN

คุณวิกรม กรมดิษฐ์

ประธานกรรมการ
และรักษาการประธานเจ้าหน้าที่บริหาร
กลุ่มบริษัทอมตะ



ดร. วิวัฒน์ กรมดิษฐ์

ประธานเจ้าหน้าที่เทคนิควิศวกรรม
และประธานเจ้าหน้าที่บริหาร
กลุ่มธุรกิจอสังหาริมทรัพย์ในประเทศไทย
บริษัท อมตะ คอร์ปอเรชั่น จำกัด (มหาชน)



คุณสัทธา วนลากพัฒนา

รักษาการประธานเจ้าหน้าที่กลยุทธ์
และผู้ช่วยประธานเจ้าหน้าที่บริหาร
บริษัท อมตะ คอร์ปอเรชั่น จำกัด (มหาชน)



คุณชวลิต ทิพพานิช

ประธานเจ้าหน้าที่บริหาร
บริษัท อมตะ ยู จำกัด



คุณพจนารถ หรีจินดา

รักษาการประธานเจ้าหน้าที่
ปฏิบัติการ
บริษัท อมตะ ยู จำกัด



คุณอัครเศรษฐ์ ชูช่วย

กรรมการผู้จัดการ
บริษัท อมตะ ฟาซิลิตี้
เซอร์วิส จำกัด



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02 Top 3 Strategic Challenges:

Climate Change

Circular Economy

Industrial Transition

03 Appendix



01

About AMATA

“ *Creating Perfect
Cities Where
Possibilities Happen* ”



“ALL WIN”


MISSION

Committed to creating a culture of **ALL WIN** for our stakeholders by expanding **New Frontiers** and exploring **Innovation** to build a **Smart City** that enriches quality of life

★ Sustainable City ★ Opportunities ★ Success
For Everyone

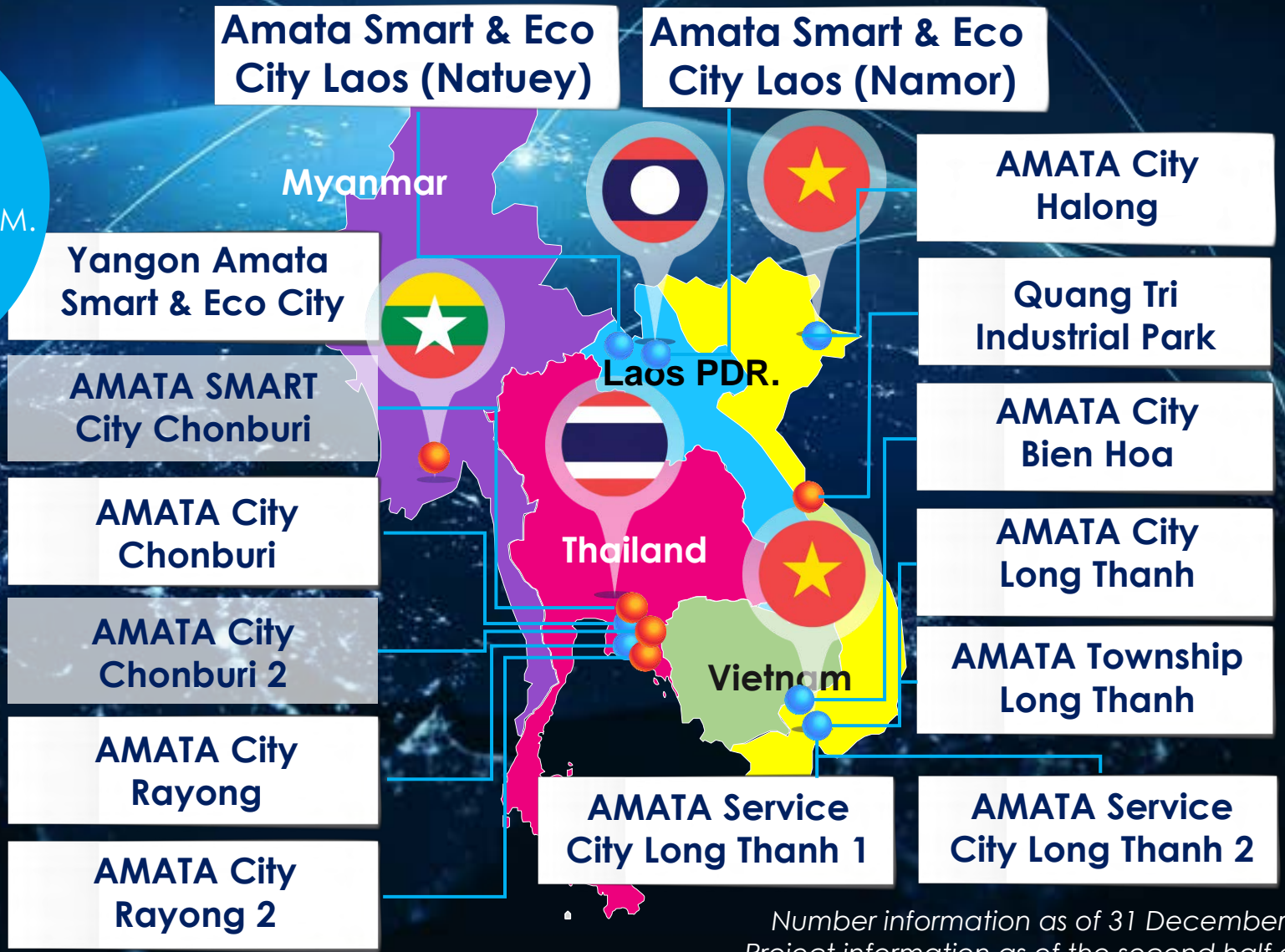
AMATA in CLMVT

● Existing Projects
● Under Development


 Area **152.65** SQ.KM.
 95,406 rai
 15 Projects
 4 Countries

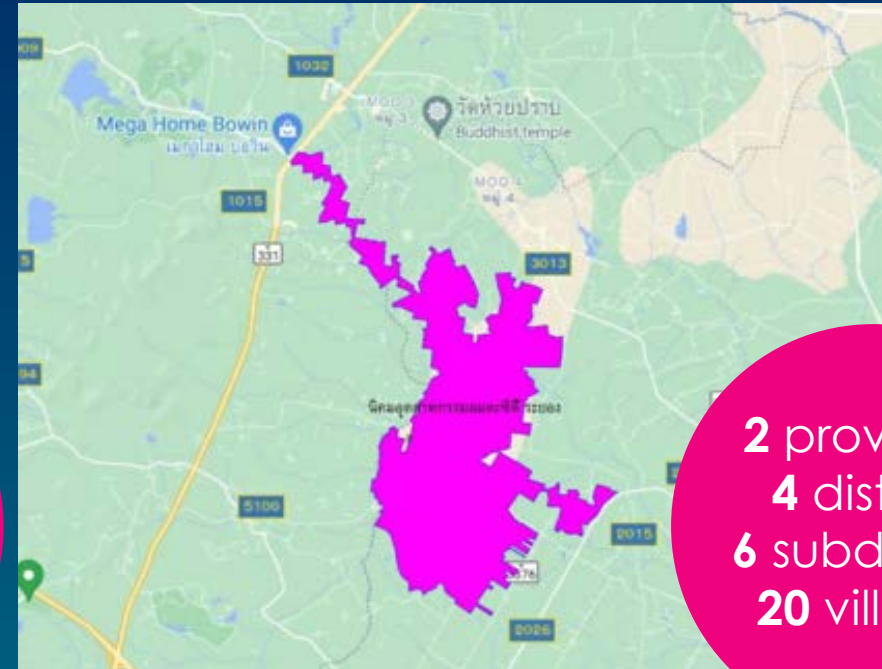
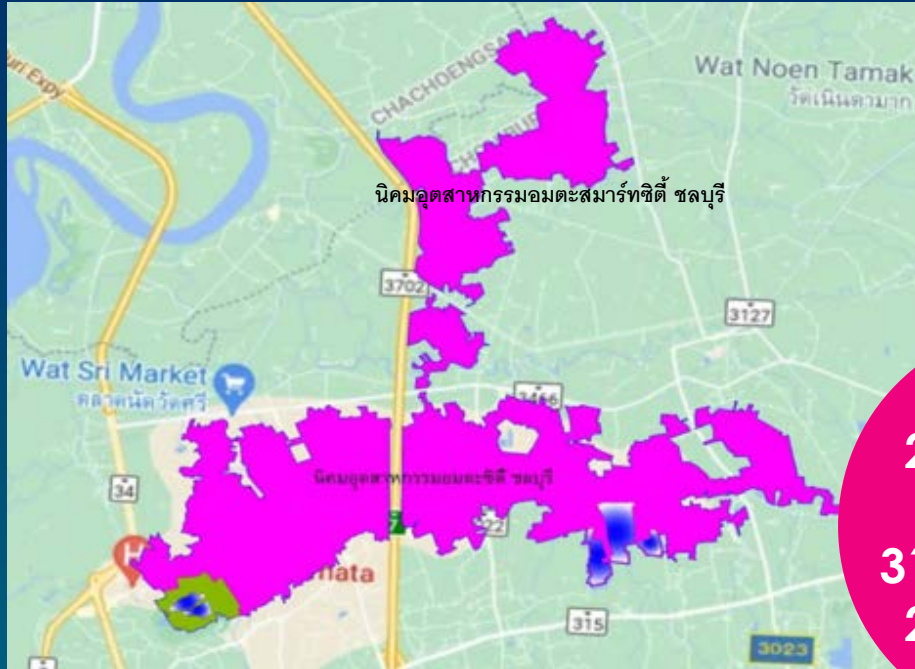

1,527 factories
 from
31 nationalities


355,000
 employees
 in factories



AMATA CITY CHONBURI and AMATA SMART CITY CHONBURI

AMATA CITY RAYONG



2 provinces
5 districts
31 subdistricts
236 villages

2 provinces
4 districts
6 subdistricts
20 villages

 **27,828** Rai
(44.52 sq.km.)

 **210,000**
Factory employees

 **17,898** Rai
(28.64 sq.km.)

 **85,000**
Factory employees

 **819**
Factories and tenants

 **734,957***
People living within 5 km radius

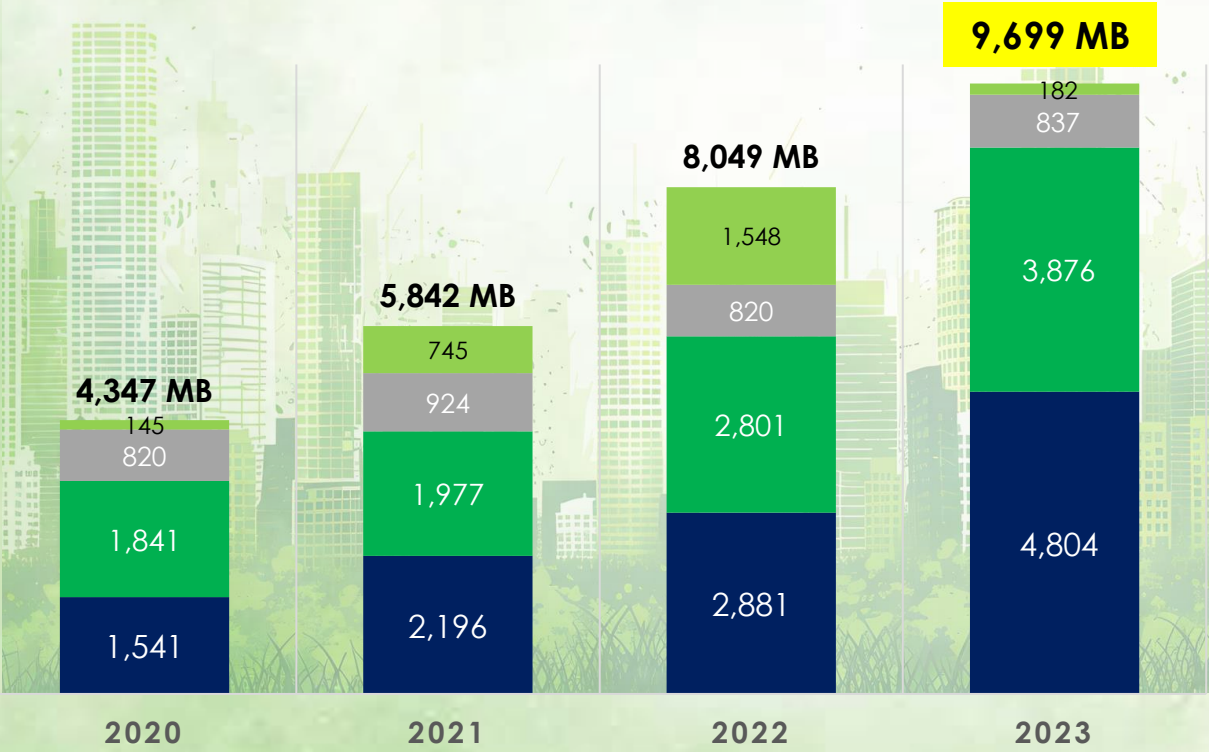
 **502**
Factories and tenants

 **220,900 ***
People living within 5 km radius

* Source: General information for Chonburi's local government organizations development planning, websites of municipalities and subdistrict administrative organizations, and official statistics registration systems of Department of Provincial Administration (Information as of 31 December 2023)

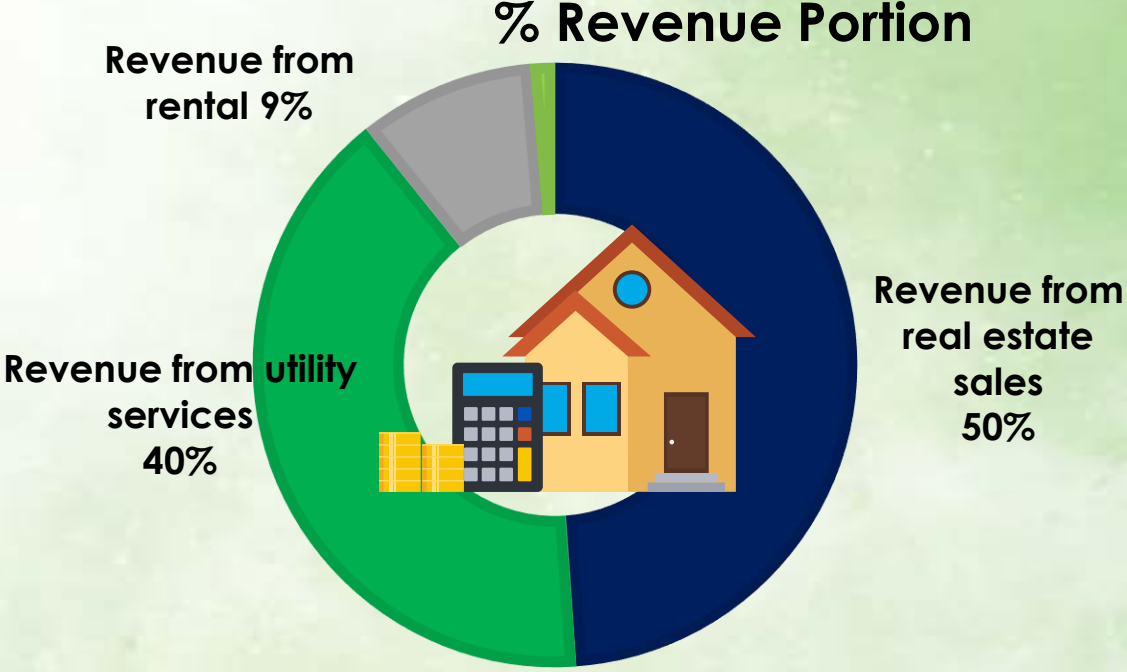
OUR BUSINESSES (YE2023)

Revenue (Million Baht)



■ Revenue from real estate sales ■ Revenue from utility services
■ Revenue from rental ■ Other income

Business Portion 2023



	2020	2021	2022	2023
Real Estate	35%	38%	36%	50%
Recurring	65%	62%	64%	50%

02

Top 3 Strategic Challenges:

“ Strategic Challenges # ”

Climate Change

“ *Strategic Challenge #1* ”



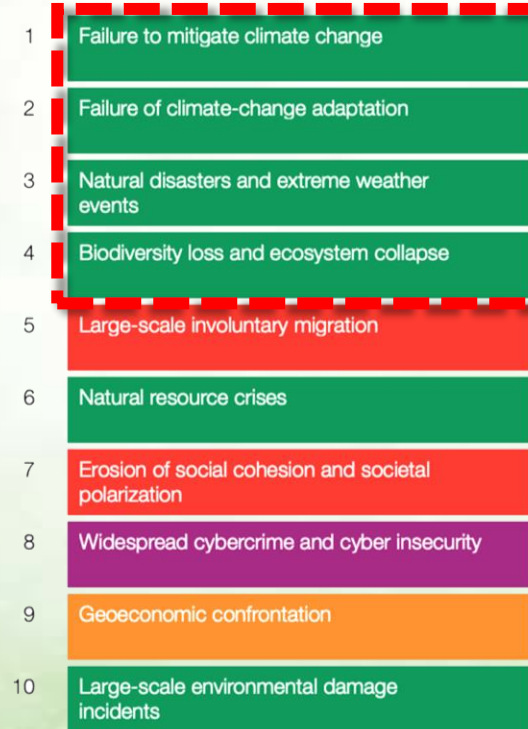
Physical Risk from Climate Change 2023

Global Risks from World Economic Forum

2 Years



10 Years

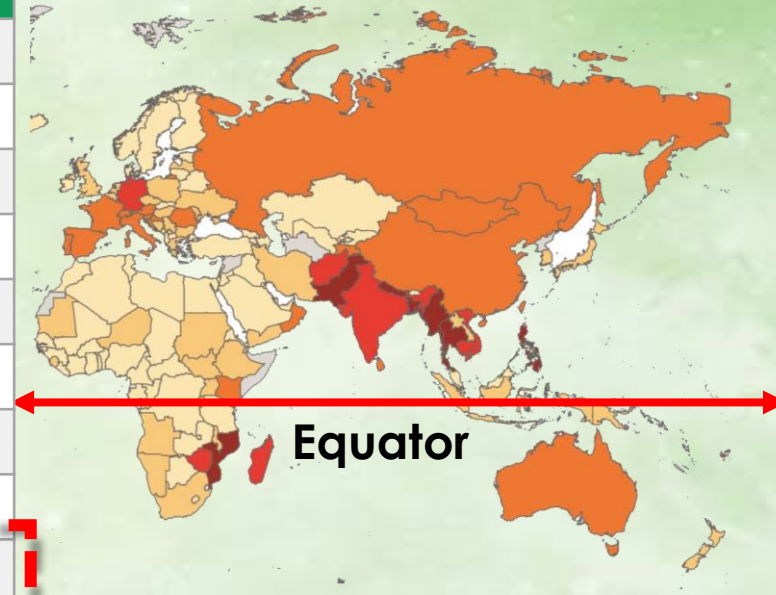


Risk categories | Economic | Environmental | Geopolitical | Societal | Technological

Climate Change Performance Index from German watch

Countries most affected by extreme weather events (2000-2019)

1	Puerto Rico
2	Myanmar
3	Haiti
4	Philippines
5	Mozambique
6	The Bahamas
7	Bangladesh
8	Pakistan
9	Thailand
10	Nepal



<https://www.weforum.org/publications/global-risks-report-2023/>

https://www.germanwatch.org/sites/default/files/Global%20Climate%20Risk%20Index%202021_2.pdf


Climate-related Risks

Physical Risks

Impacts

Opportunities



 **Extreme weather events**
(i.e. strong wind, flood, heat)



Increase operating and maintenance costs for emergency response



Increase flood protection expenses



Increase medical expenses



Drought in water-stressed areas due to unpredictable precipitation patterns



Raw water cost increase



Fines due to water supply contract



Loss of reputation and trust



Increase flood operating and protection expenses



Rising mean temperatures



Rising mean sea level enhances the severity of flooding



Construction delay due to extreme weather events



Water security to AMATA and surrounding communities

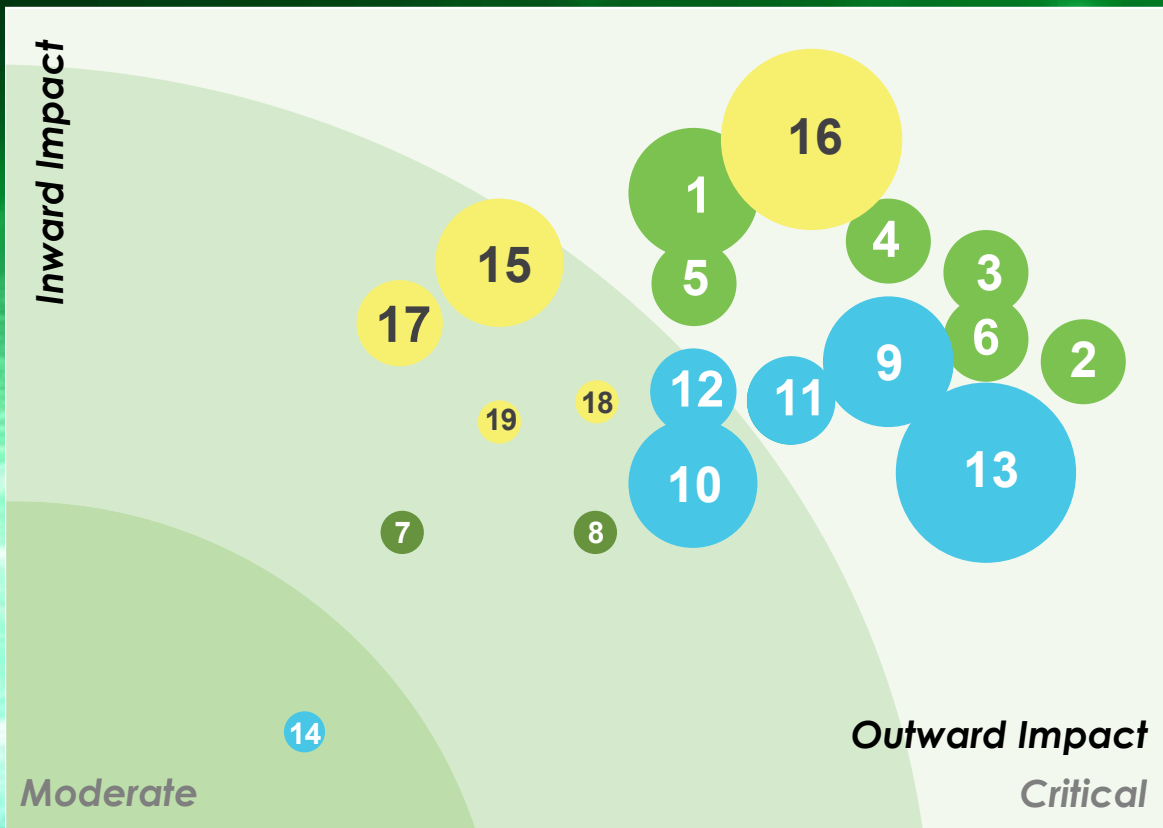


Water grid



New products and services in circular water businesses

Material Topics 2023



Importance to AMATA's Stakeholders



- | | | |
|--|--|---------------------------------------|
| 1 Environmental Quality Control | 9 Customer Experience | 15 Business Ethics & Integrity |
| 2 Climate and GHG Emissions | 10 Occupational Health & Safety | 16 Law & Regulatory Compliance |
| 3 Energy Efficiency & Renewables | 11 Employee Development & Retention | 17 Risk & Crisis Management |
| 4 Catchment Protection & Rehabilitation | 12 Community Health & Well-being | 18 Responsible Supply Chain |
| 5 Industrial Water and Effluent | 13 Traffic Management & Road Safety | 19 Information Security |
| 6 Waste | 14 Social Contributions | |
| 7 Sustainable Products & Services | | |
| 8 Circular Economy | | |

Climate Change Strategies

1 Climate Resilience City

Adapt and increase our capability to effectively cope with the climate change effects.

2 Carbon Neutral City

Reduce greenhouse gas emissions from the operations to create a low carbon society

3 Climate-related Products & Services

Develop climate-related products and services to increase competitive advantage



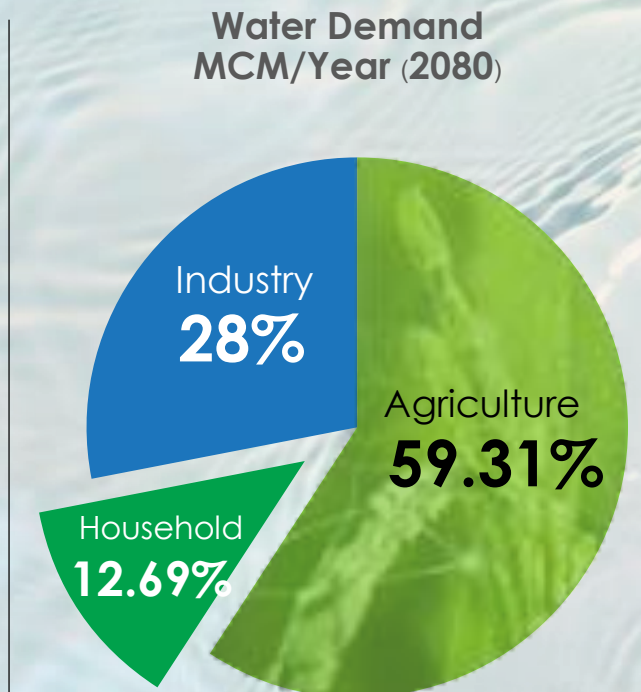
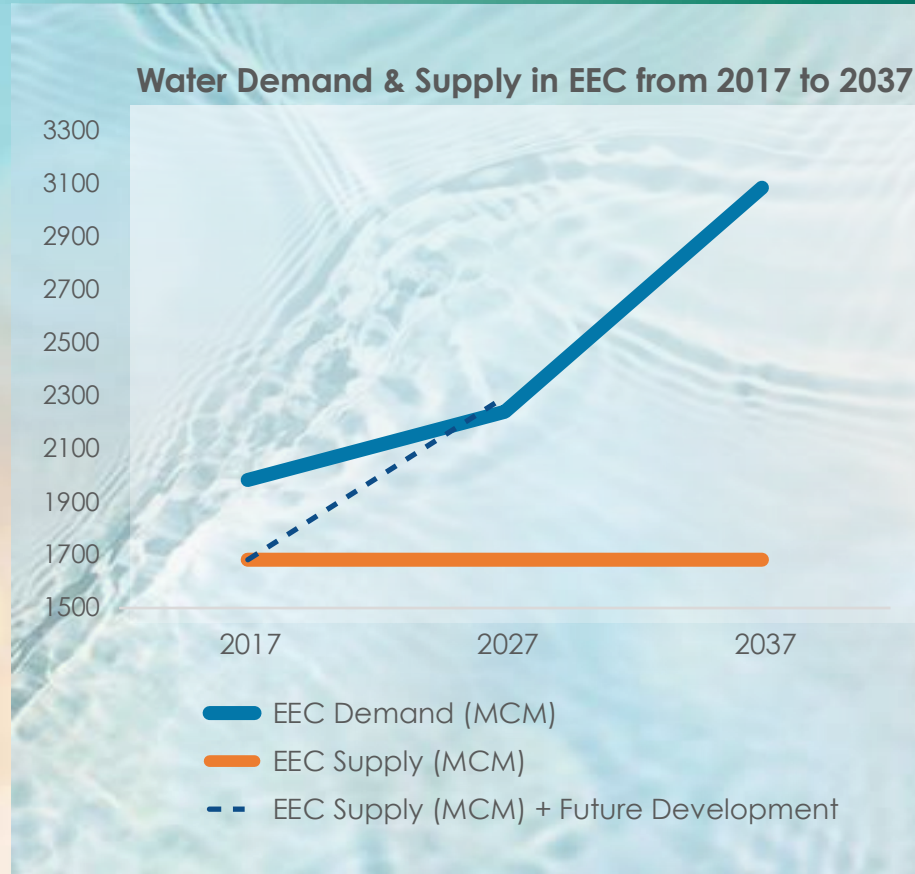
Water Strategies

1. Strive for **water security** by building internal reservoirs
2. Reduce surface **water dependency** by utilizing treated water according to **zero discharge** principle
3. Choose only **climate resilience location**

Overall EEC Water Consumption (Agriculture, Household, Industrial Activities)



Climate Resilience City



https://www.researchgate.net/figure/Baseline-water-stress-map-in-Thailandadapted-from-WRI-aqueductwater-risk-atlas-42_fig5_335329854

<https://www.oecd-ilibrary.org/sites/91413186-en/index.html?itemId=/content/component/91413186-en>

<https://www.snohunakul.org/โครงการ/สถานการณ์ภาคตะวันออก-พ-ศ-2567>

Water Security Strategy

(AMATA City Chonburi)



Gross Water Demand

27.2
MCM/year



8
Réservoirs

42.0 MCM
(154%)

Water Reserved Goal

14 months
(Reserved Capacity/ Monthly Gross Water Demand)

Performance
18 months

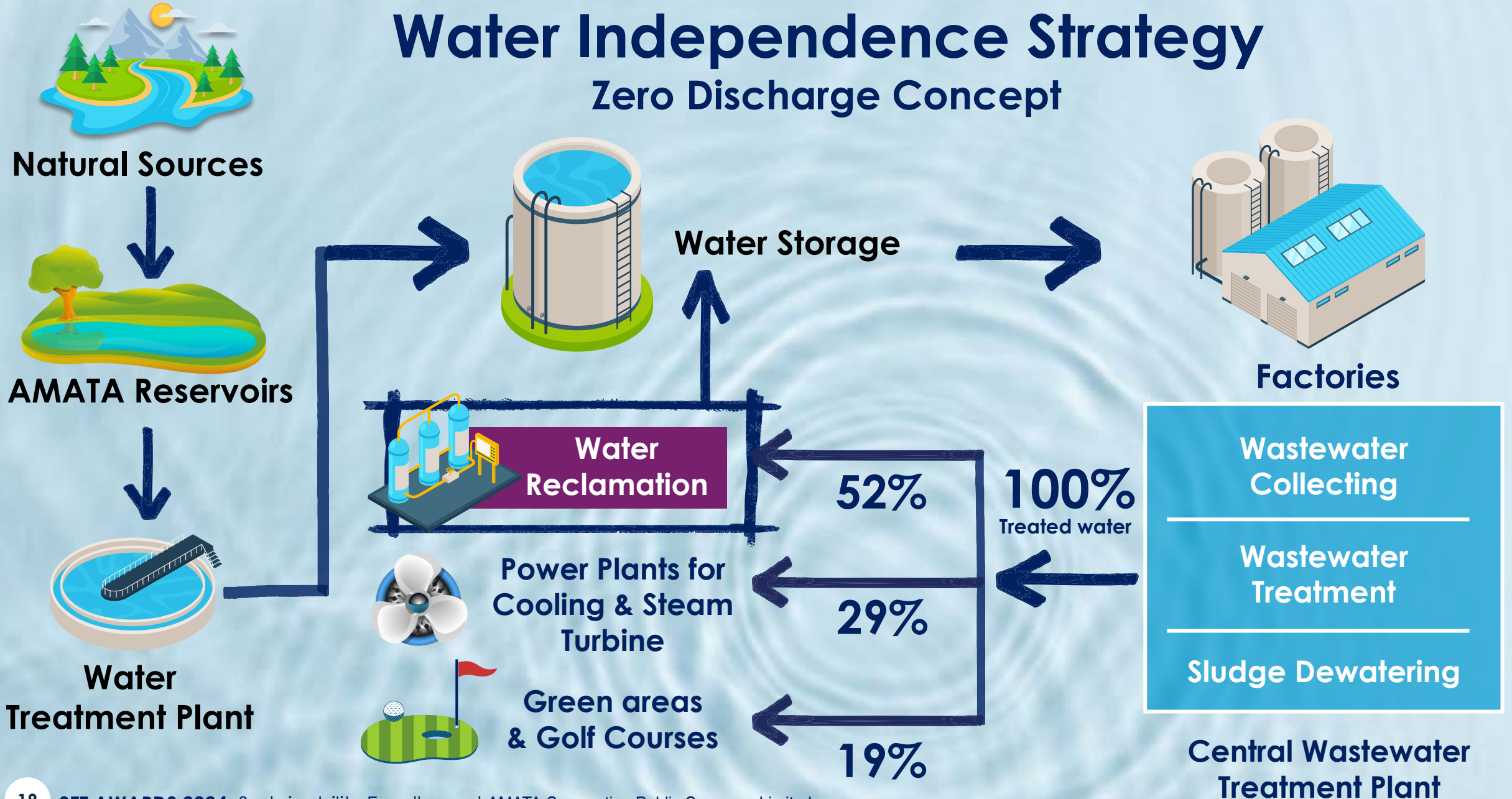


Water Grid
(Long Term Goal)

Connect Multi - Projects

Water Independence Strategy

Zero Discharge Concept



Water Independence Strategy



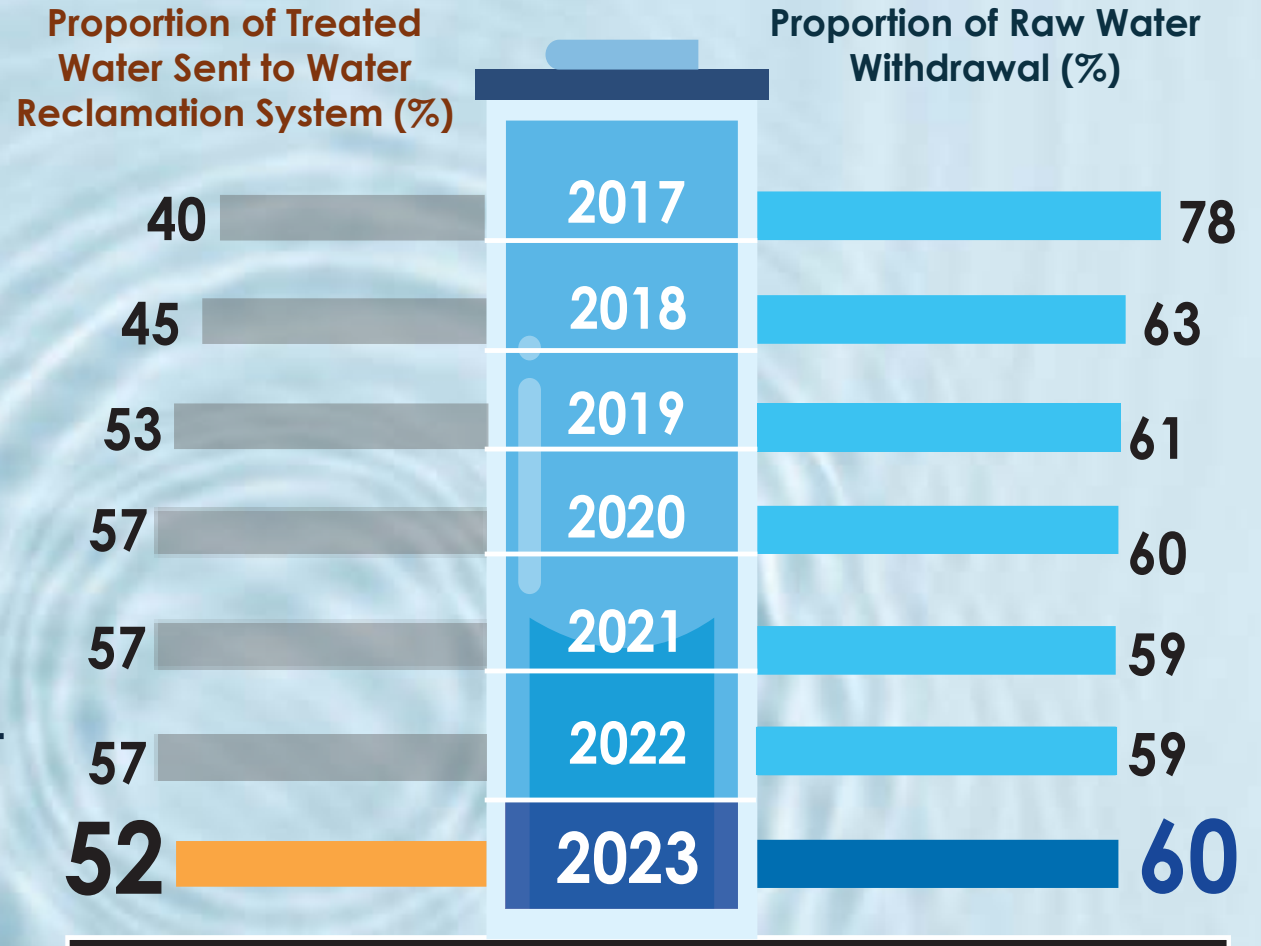
Performance Water Reclamation System (since 2008)

Reduce the proportion of raw
water withdrawal to **60%**

Gross Water
Demand
60.5 MCM/Year
(2023)

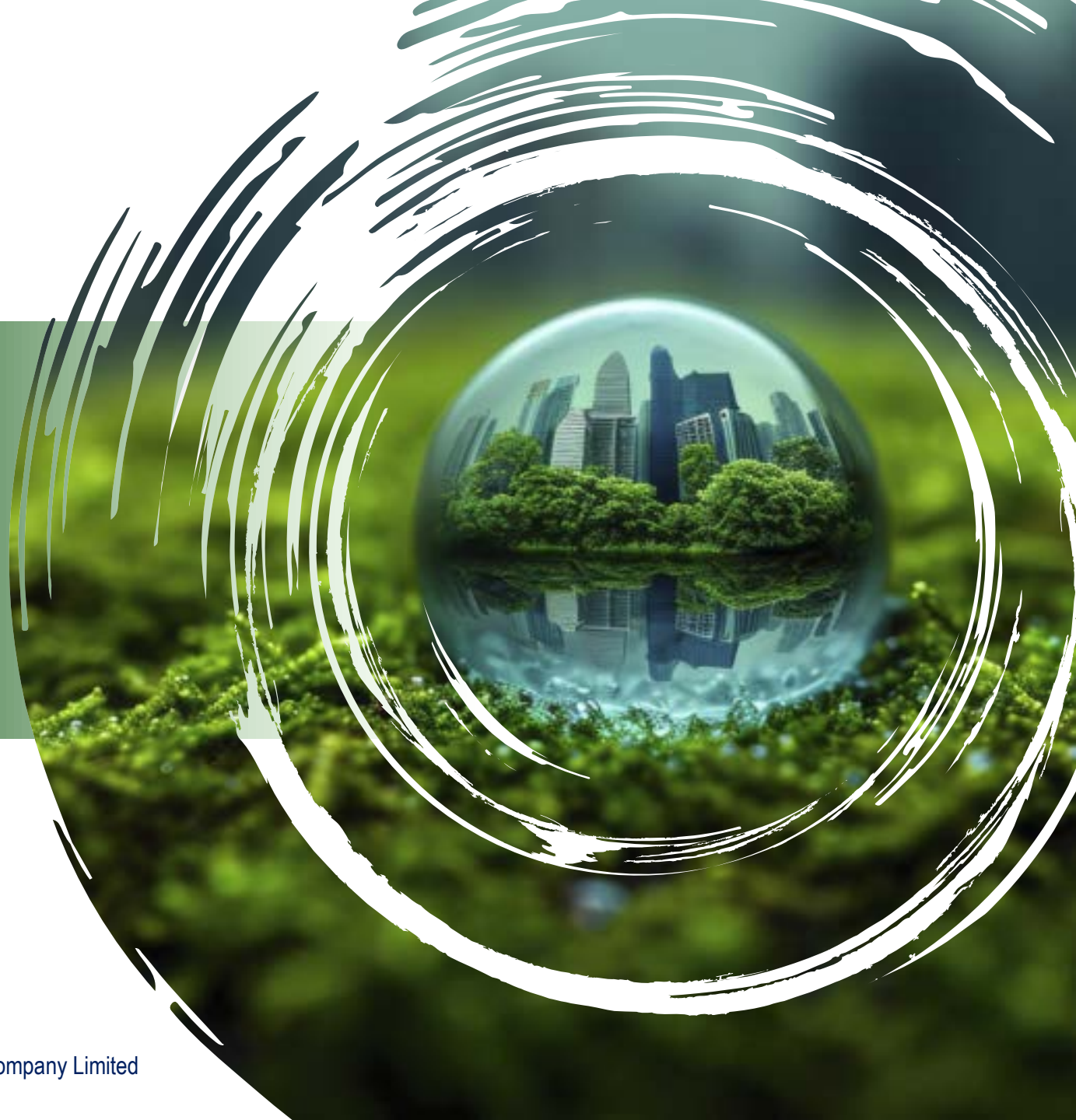
Raw Water
Withdrawal
36.5 MCM/Year
(2023)

Saved raw water sourcing cost
by **78.93** million Baht in 2023



Circular Economy

“ *Strategic
Challenge #2* ”



Global Initiatives on Circular Economy Lead Existing Customers to Reduce Utility Consumption



AMATA City
Chonburi
&
AMATA City
Rayong

Existing
Customers

1,321
Factories
(As of 31 December 2023)



Less
Industrial Water
Consumption
(44 MB)



Less Wastewater
Treatment Fee
(12 MB)



Less Treated Water
Sent to
Reclamation Plant

Less Solid Waste
(5 MB)

Financial Impact
>> 62 MB

Technical
Collapse

Disrupt Design
and Operation

Circular Economy Trends in Automotive Industry



Increasing rate of material recycling



Less water consumption

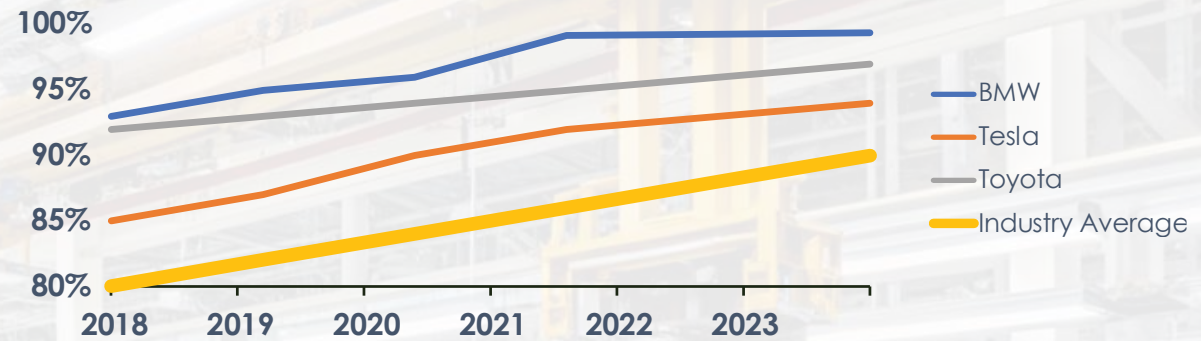


Less waste disposal

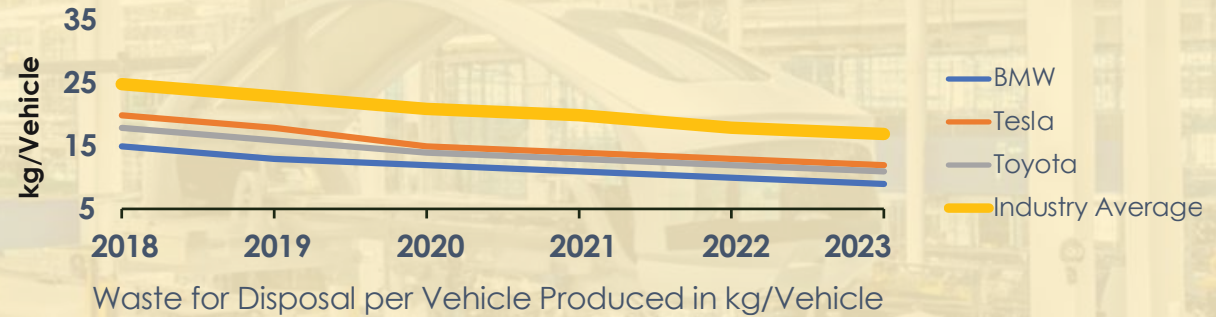


- Sources: Publicly disclosed information

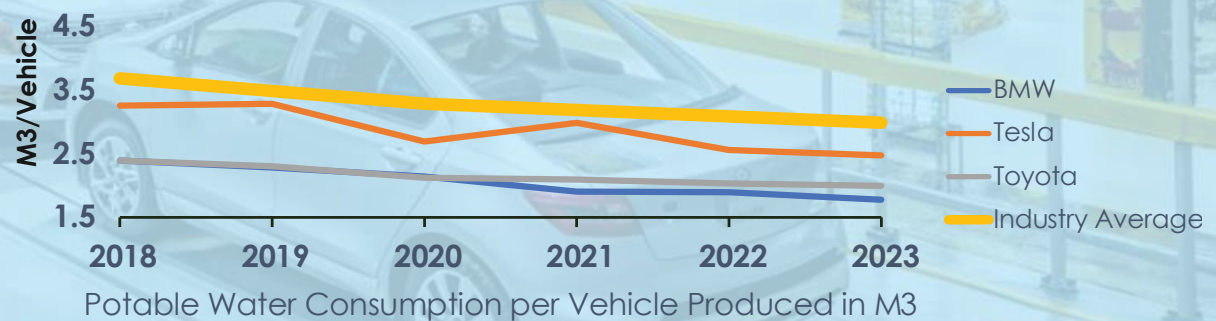
Recycling and Recovery Rate of Raw Material



Multiple Values by 'Waste for Disposal per Vehicle Produced'



Multiple Values by 'Potable Water Consumption per Vehicle Produced'



Circular Economy Trends in the Semiconductor Industry

SAMSUNG

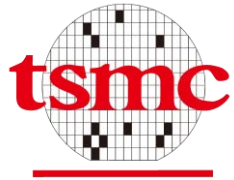
- Use recycled plastic for all plastic parts in DX products by 2050
- Operate an e-waste collection system in all global sales countries by 2030 and work towards collecting 10 million tonnes (accumulated)

Lenovo

- 90% of plastic packaging will be made from recycled plastics for notebooks, desktops and workstations by FY 2025/26
- 60% of the materials will be recycled content and single use plastics will be reduced by 50 percent by FY 2025/26



- 100% recycled cobalt, tin, gold, and rare earth elements in select components and applications by 2025
- Remove plastics from our packaging by 2025



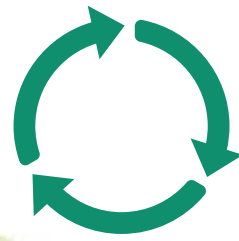
- 100% Waste recycle rate in 2030
- Reduce CO2 emissions from waste treatment to 2020 emission levels 2030



- Achieve zero waste to landfill in 2030
- Implement circular economy strategies for 60% of its manufacturing waste streams



- Build zero waste campuses that implement "zero landfill" policies



Circular Economy



Circular Economy (CE)

- Existing customers are increasingly focusing on CE practices
- New customers with CE policies see our utilities and CE practices as key investment factors



Financial Impact

- Loss of recurring income from existing customers



Financial Impact

- Loss of new customers due to unmet CE requirements



Opportunity

- Sell more CE products such as reclaimed water
- Initiate new CE services and expand to new areas including nearby communities



Opportunity

- Attract customers who prioritize CE

Innovation Strategy to Uplifting Product & Service Quality

One Stop Service Solid Waste Management

2024

Collaborate with strategic partners to offer new solid waste management services and expand beyond AMATA industrial estates

Comprehensive Industrial Waste Management

2025

Offer new industrial waste disposal and recycling services and expand beyond AMATA industrial estates

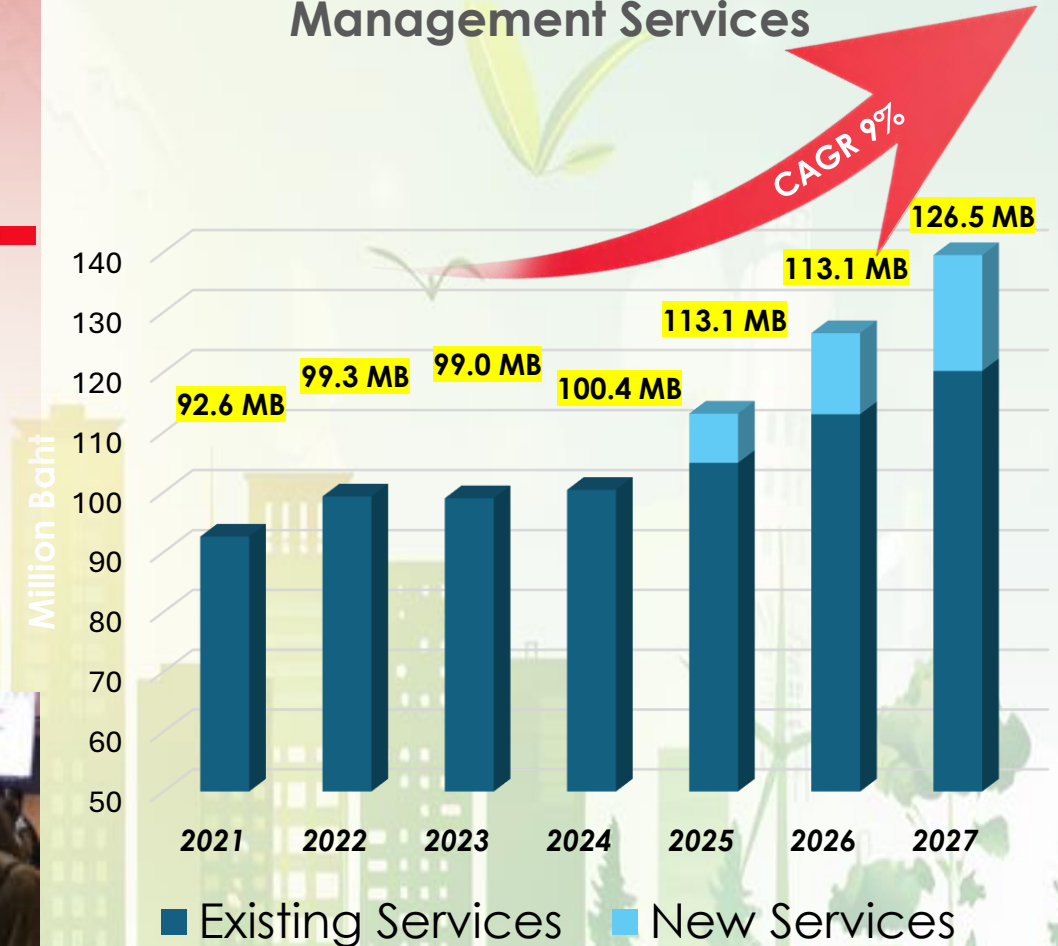
Waste Management Total Solution Provider

2026

Offer new services such as consultation and waste audits.

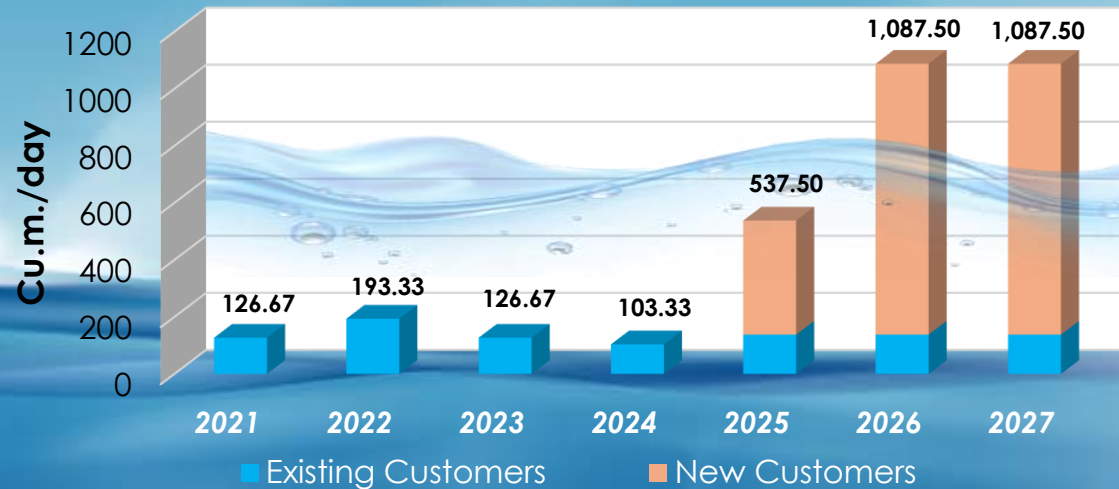


Estimated Revenue of Waste Management Services



Innovation Strategy to Uplifting Product & Service Quality

Estimated Sales Volume of Premium Water



Flow (m ³ /d)	
800	
TDS (mg/l)	EC (μS/l)
50	100
Price (THB/ m ³)	Contract (year)
75	10

Uplift Product to Premium Water to Meet New Potential Demand

Long-term Targets Increase Recurring Income

Targets

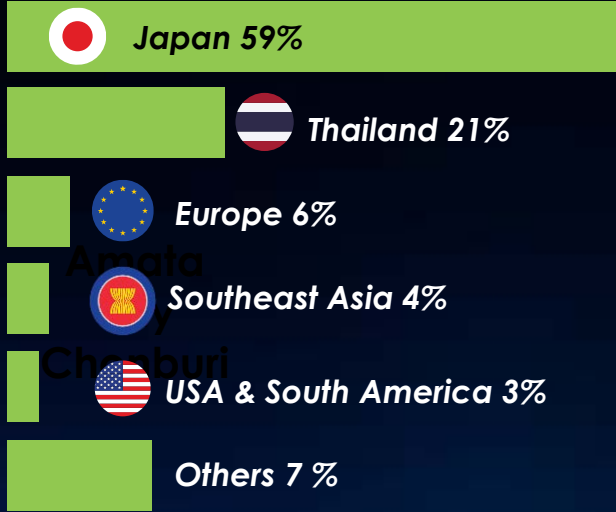
- Offer New Product & Services
- Secondary Water Treatment Plant and Premium Grade Water
- Water Total Solution Provider

Industrial Transition

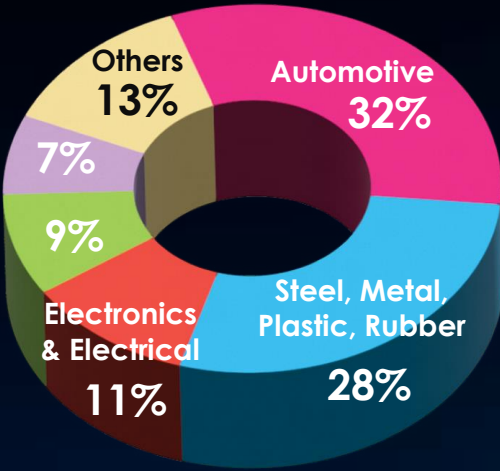
“ *Strategic
Challenge #3* ”

Existing Industry of AMATA

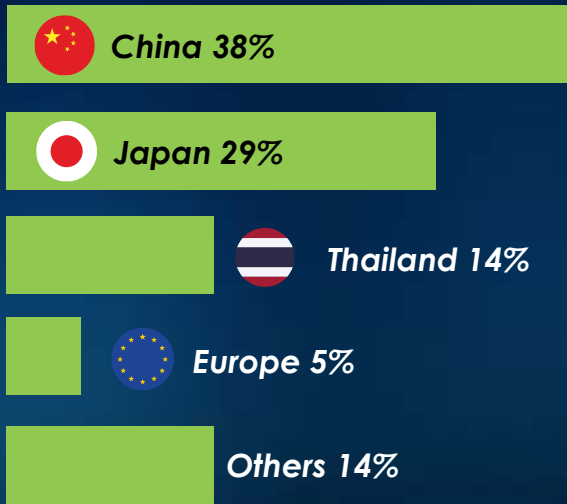
Amata City Chonburi



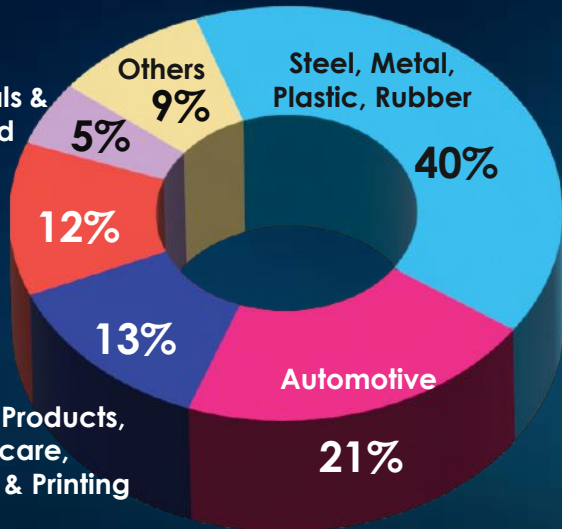
Chemicals & Related
Service, R&D, Logistics, Warehouse, Sales etc.



Amata City Rayong



Chemicals & Related
Electronics & Electrical
Consumer Products, Healthcare, Packaging & Printing



Industrial Transition: Impact to Supply Chain

Automotive key players announced to reduce production capacity or exit from Thailand

2020



AMATA City
Chonburi
&
AMATA City
Rayong

Industrial Water
(591 MB)

2024



Existing
Automotive &
Related
Customers

Waste Water
Treatment
(157 MB)



895 (of 1,321)

Potential
Financial
Impact
To Recurring
Income
(1,062 MB)

2025

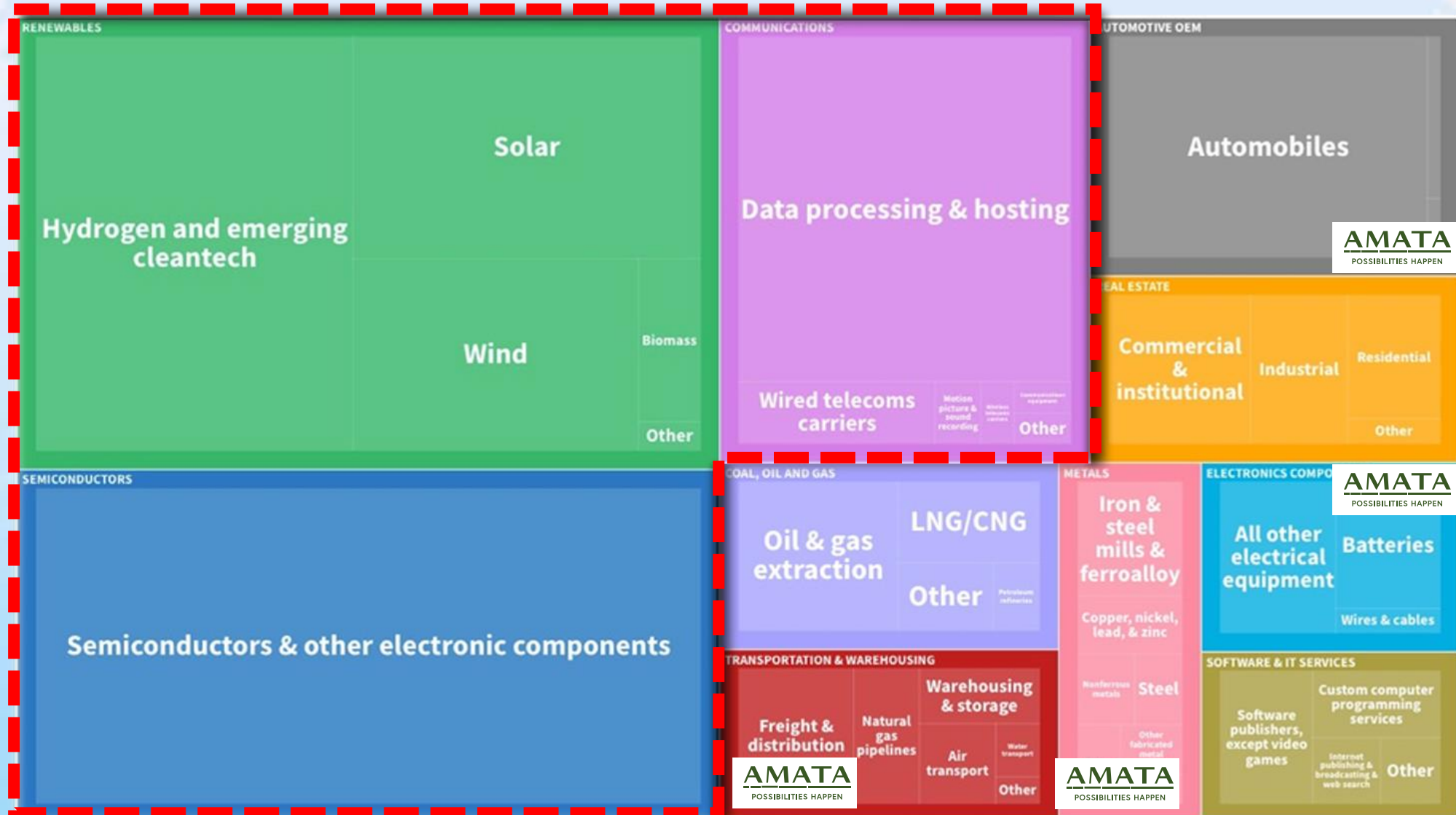


68%

Electricity
(314 MB)

*Estimated from ABP group
dividend

Global FDI: 1H2024 (Green-field)



Industrial Transition: New Requirements



Traditional Industry

0.1 MW/ 1 Rai

7
CU.M./ 1 Rai

Current Industry

1 MW/ 1 Rai

50 - 100
CU.M./ 1 Rai

Upcoming Industry NEW FDI

Renewable Energy
Project/Equipment
Semiconductor
Data Processing

3 MW/ 1 Rai
*AI Data Center 3X
from Cloud DC*

335
CU.M./ 1 Rai

Industrial Transition: New Requirements



- World's largest cloud provider, **30%** global market share
- Largest corporate purchase of renewable power around the world
- **100% renewable energy by 2025**, 5 years ahead of 2030 target



"Zero carbon energy mix, To power all data centers and facilities with **100% new renewable energy generation by 2025**"



"To operate **all of its data centers** and office campuses on carbon-free energy **24/7 by 2030**"



"CloudHQ is committed to achieving net zero emissions by **2040**"

"Green & Clean"

Innovation Strategy to Uplifting Product & Service Quality

Climate-Related Products & Services

2023 Target

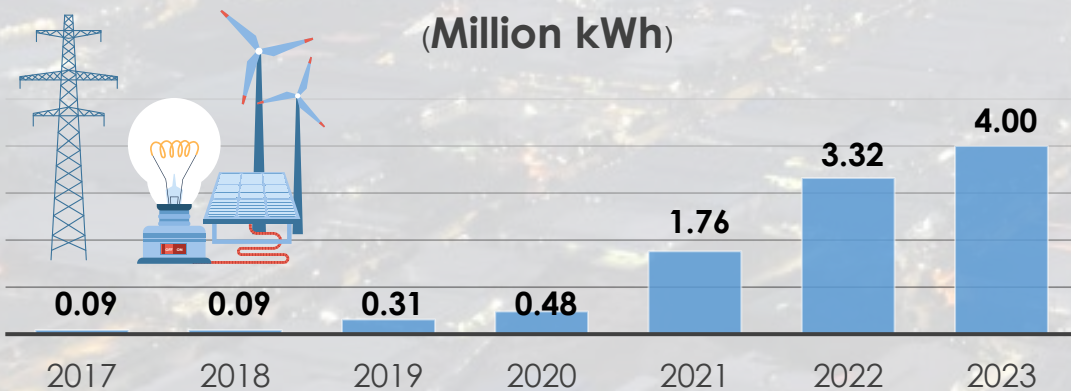
Renewable Energy Consumption in Operation
10% of Total Energy consumption

2023 Performance

7.62% of Total Energy Consumption

Solar-generated electricity in AMATA Industrial Estates

(Million kWh)



Long Term Target for Utilities (Self Consume)



By 2030, Reduce Carbon Footprint of utilities by 30% (2023 based year)

Long Term Target for Electricity to Factory



Direct investment on Renewable Energy 80 MW

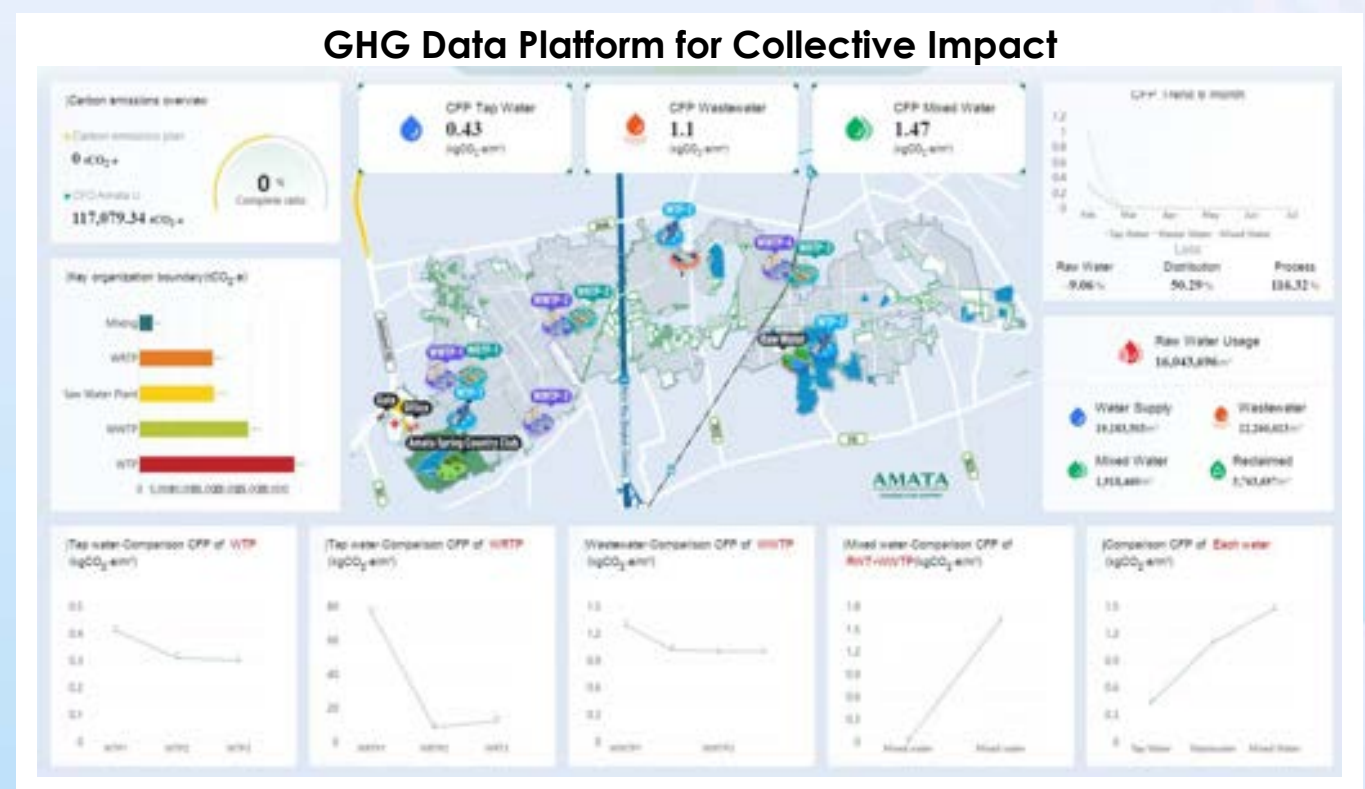


By 2050, Share of Electricity Consumption from Renewable Source at 30% provided by Amata B. Grimm Power Limited

New Clean Energy Sources and Collaboration



Hydrogen Energy for BMW by AMATA NGD



ACNN 2023 Forum and AMATA's Waste Management Awards





Advancing Sustainability with Carbon-Neutral Network Rollout & Smart Manufacturing Seminar

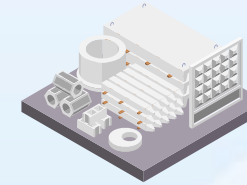


Innovation Strategy to Uplifting Product & Service Quality

Amata Smart City New Economy Customers

 <p>Target 2023</p>	<p>300 rai</p>	<p>High Value Industries</p>
 <p>Performance 2023</p>	<p>307 rai (3 Factories)</p>	<ul style="list-style-type: none"> • Smart Electric & Consumer Products • Printed Circuit Board

Economic Value Creation



Light & Medium Industry
FDI/m2 from
\$500 - \$1000



Data Processing
FDI/m2 from
\$1,800 - \$2,800

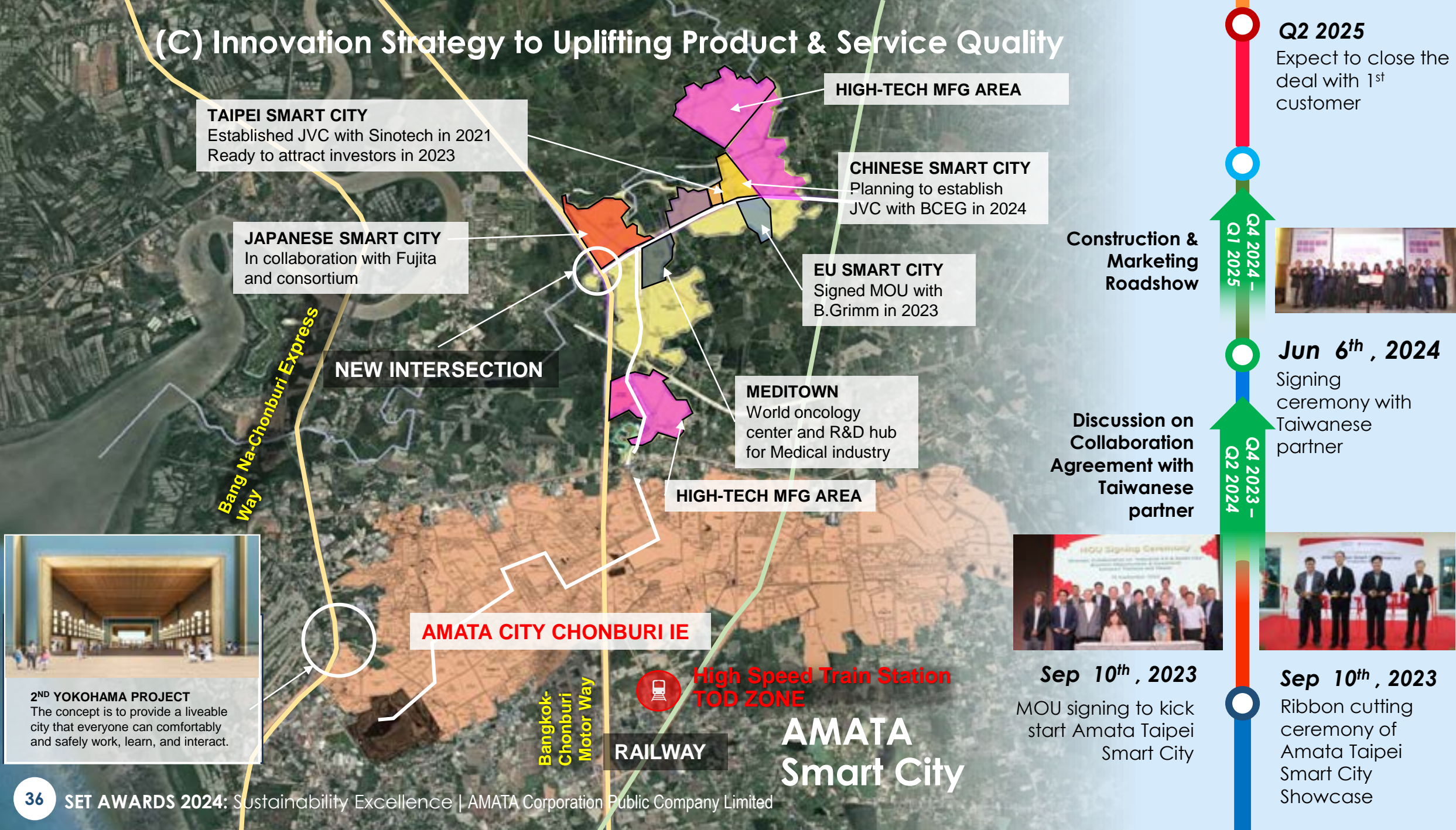


Semiconductor
FDI/m2 from
\$2,500 - \$10,000



2X – 4X
Annual Productivity

(C) Innovation Strategy to Uplifting Product & Service Quality



TAIPEI SMART CITY
Established JVC with Sinotech in 2021
Ready to attract investors in 2023

JAPANESE SMART CITY
In collaboration with Fujita and consortium

HIGH-TECH MFG AREA

CHINESE SMART CITY
Planning to establish JVC with BCEG in 2024

EU SMART CITY
Signed MOU with B.Grimm in 2023

MEDITOWN
World oncology center and R&D hub for Medical industry

HIGH-TECH MFG AREA

NEW INTERSECTION

AMATA CITY CHONBURI IE

High Speed Train Station TOD ZONE

RAILWAY

AMATA Smart City



2ND YOKOHAMA PROJECT
The concept is to provide a liveable city that everyone can comfortably and safely work, learn, and interact.

Q2 2025
Expect to close the deal with 1st customer



Jun 6th, 2024
Signing ceremony with Taiwanese partner



Sep 10th, 2023
MOU signing to kick start Amata Taipei Smart City

Sep 10th, 2023
Ribbon cutting ceremony of Amata Taipei Smart City Showcase



AMATA , hotel nikko AMATA & VNU (BIO Asia Thailand organizer) concluded the deal to host the medical media event in AMATA

Location: hotel nikko AMATA/ Timing: 6th August & 11-13th September 2024



**Top 3
Strategic
Challenges:**

Climate Change

Circular Economy

Industrial Transition

Strategic Priorities ประเด็นสำคัญเชิงกลยุทธ์

ESG Related Business Strategy กลยุทธ์องค์กร

Corporate GOALS เป้าหมายองค์กร

 Wastewater Management

 Waste Management

 Innovation & Digitalization

 Climate Change

 Product & Service Quality

 Community Support & Development



A Responsible & Sustainable Consumption Strategy
กลยุทธ์การบริโภคอย่างมีความรับผิดชอบและยั่งยืน

B Climate Change Strategy
กลยุทธ์ด้านการเปลี่ยนแปลงสภาพภูมิอากาศ

C Innovation Strategy to Uplift Product & Service Quality
กลยุทธ์ด้านการสร้างสรรค์นวัตกรรมเพื่อยกระดับคุณภาพผลิตภัณฑ์และบริการ

D Strategy for Enhancing Shared Value Creation and Collective Impact
กลยุทธ์ด้านการเพิ่มการสร้างคุณค่าร่วมและผลกระทบเพื่อส่วนรวม

Zero Waste / Zero Discharge / Water Independence & Security

Climate Resilient City / Carbon Neutrality in 2040

High Value Sustainable Products & Services

Social License to Operate / Quality of life for stakeholders

Contributions to the UN SDGs



“ALL WIN”

Different



Smart City

Perfect City

Industrial Estate



AMATA SUSTAINABILITY Q&A



03

Appendix

“

*Creating Perfect
Cities Where
Possibilities Happen*

”

AMATA Key Milestones



1975: V&K Enterprise
"Tuna: Chicken of the Sea"

2nd Yokohama City
AMATA

SMART CITIES
10 km²

Founded
AMATA Group

Amata City
Chonburi

Amata City
Bien Hoa

Amata City
Rayong

Listed AMATA CORP PCL
in SET

Founded
AMATA VN PCL

Amata City
Long Thanh |
Listed AMATA VN PCL
In SET

Amata City
Ha Long

Yangon Amata Smart
& Eco City

1975

1989

1994

1995

1997

2012

2015

2018

2019

2022

Amata Smart
& Eco City Natuey

Creating Perfect Cities
where possibilities happen



Committed to creating a culture of
“**ALL WIN**” for our stakeholders
by expanding new frontiers and
exploring innovation to build
a Smart City that
enriches quality of life

VISION

MISSION

2018

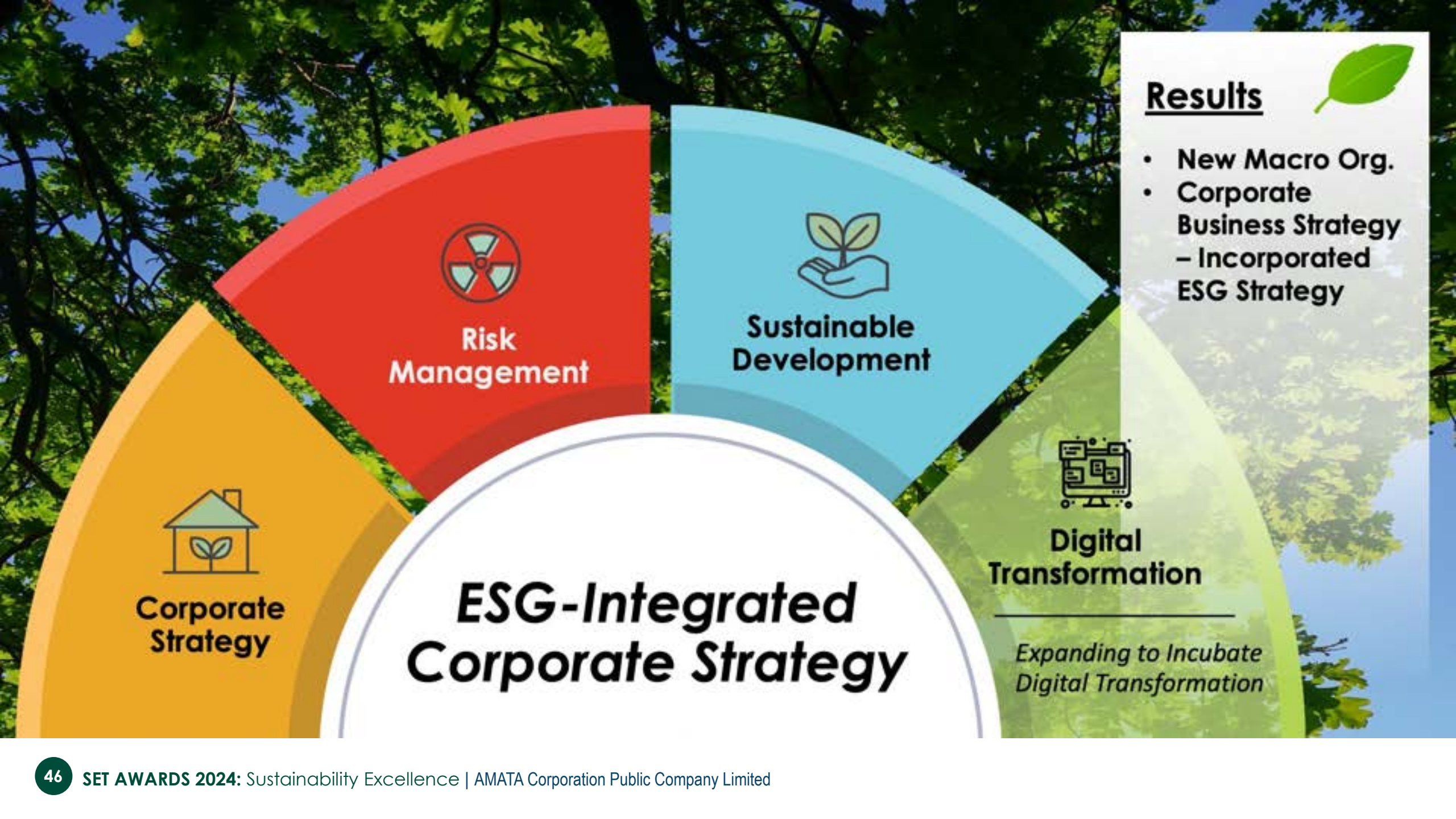
World's Leading Industrial
City Developer



To provide reliable,
sustainable and state-of-the-
art business estates

Sustainability Governance Structure





Results



- **New Macro Org.**
- **Corporate Business Strategy – Incorporated ESG Strategy**

Digital Transformation

Expanding to Incubate Digital Transformation

Corporate Sustainability Management

การบริหารจัดการความยั่งยืนองค์กร

