

# Energy Transition and Just Decarbonization

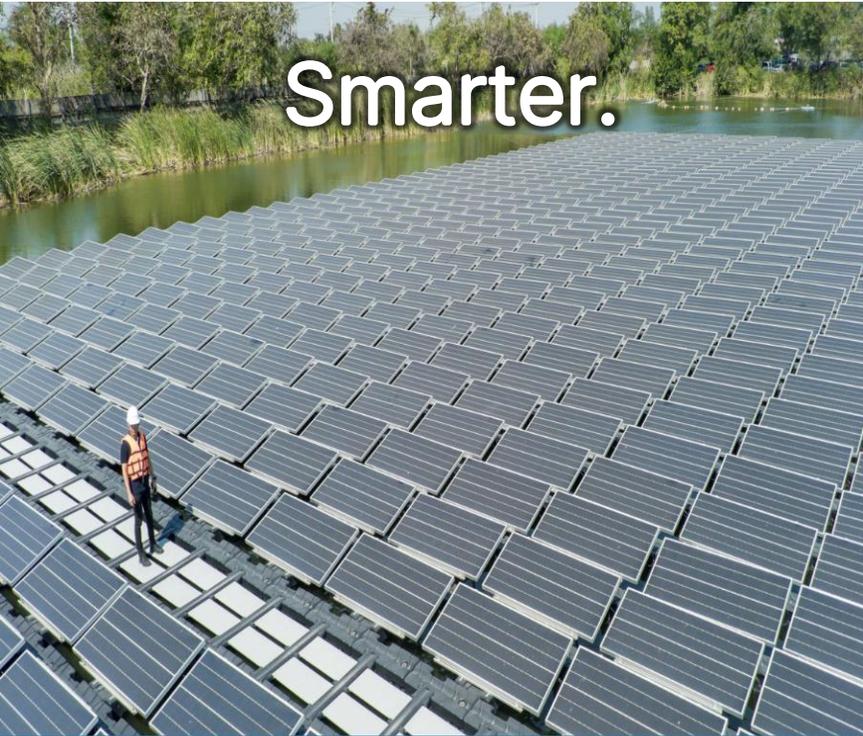
Delta Electronics (Thailand) PCL.

11/18/2025



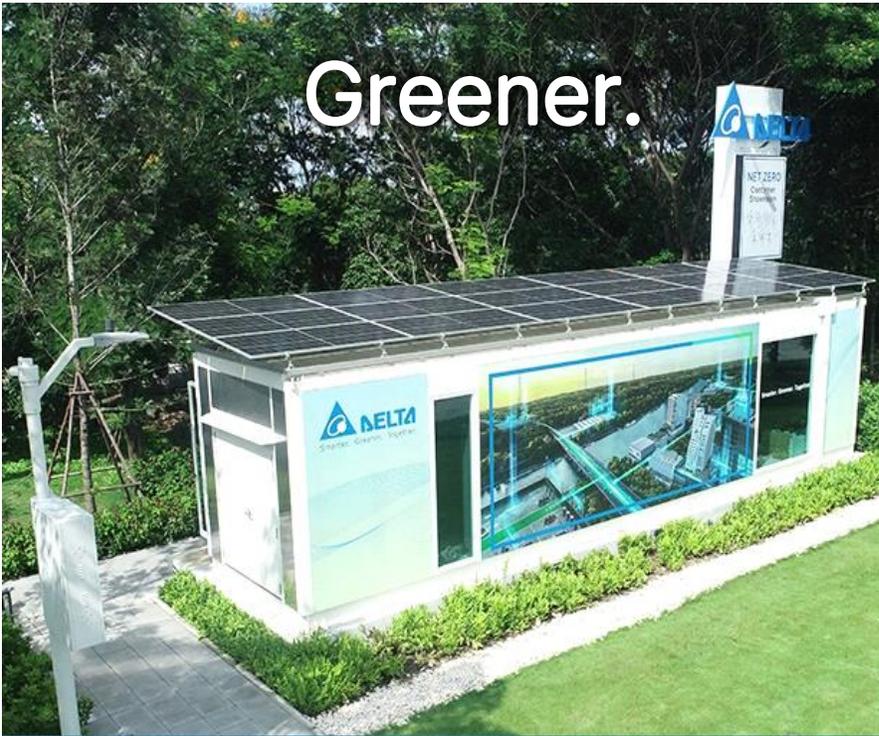
# ESG in Our DNA

To provide innovative, clean and energy-efficient solutions for a better tomorrow.



Smarter.

Floating solar farm at Saraburi, Thailand built by Delta



Greener.

Delta Net Zero Container Showroom in Eastern Economic Corridor (EEC)



Together.

Delta partners with Thai government agencies to launch Smart Farm for community enterprises

# Business Categories



Power Electronics

Components  
Power and System  
Fans & Thermal Management



Mobility

EV Powertrain Systems



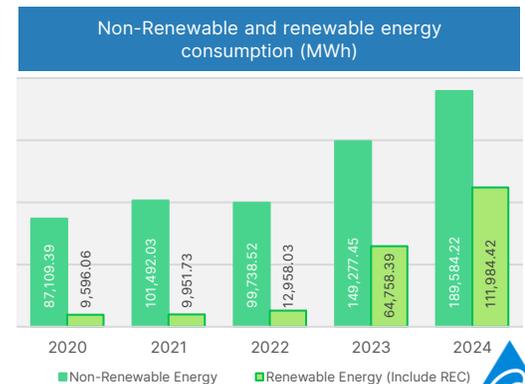
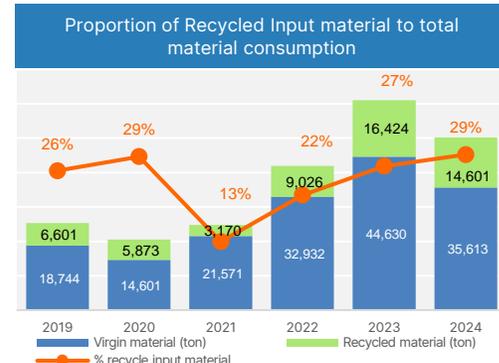
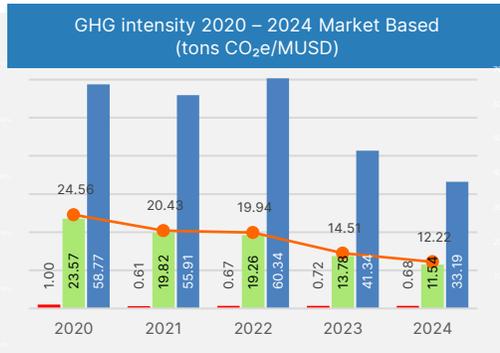
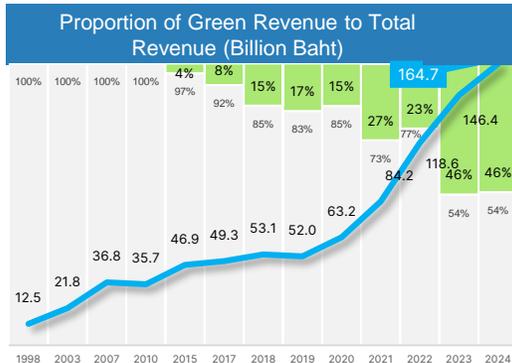
Automation

Industrial Automation  
Building Automation

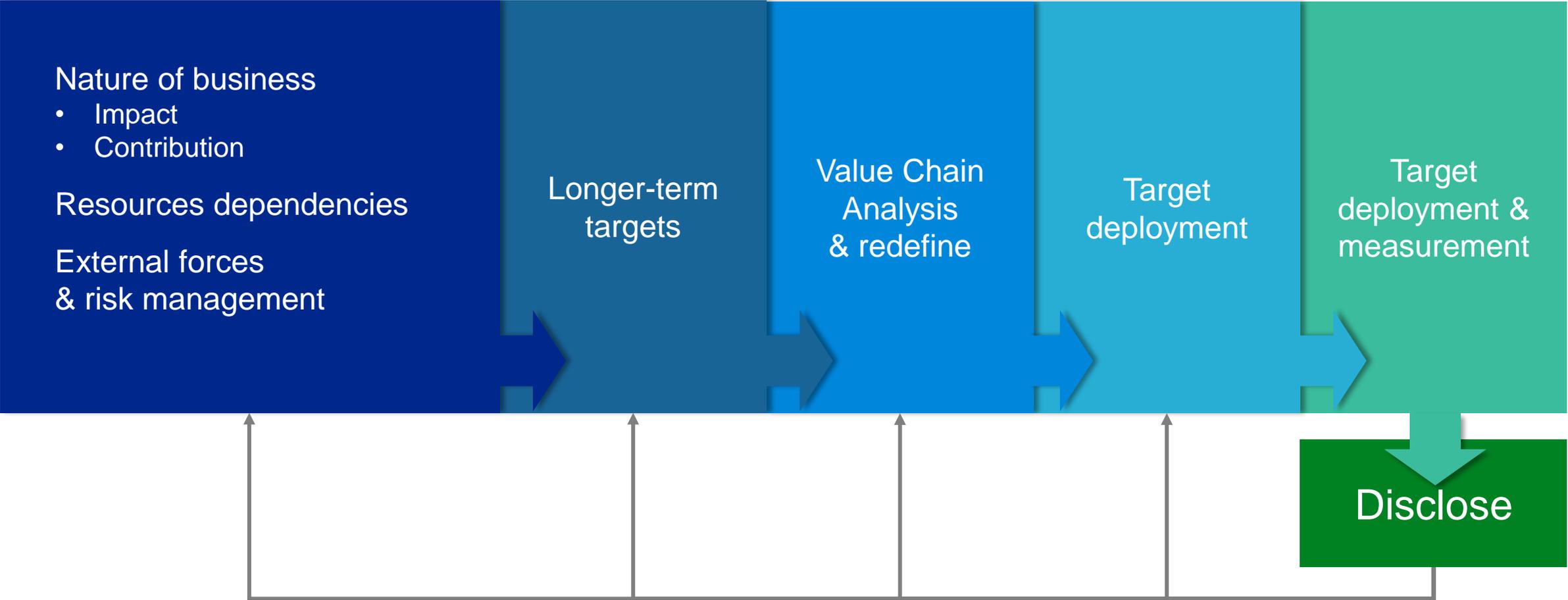


Infrastructure

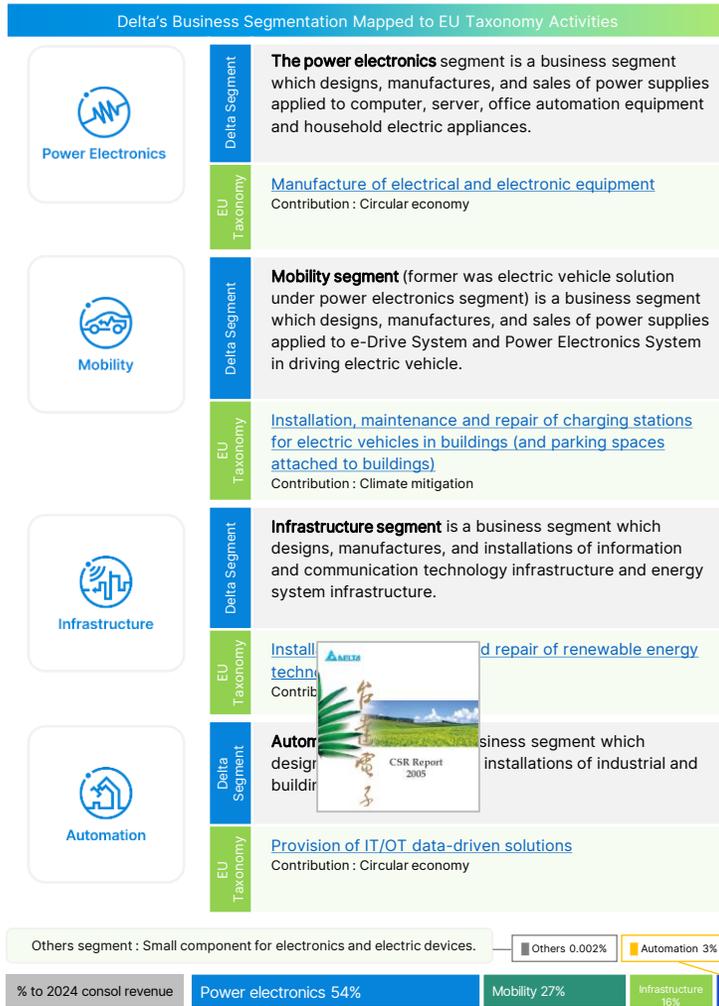
ICT Infrastructure  
Energy Infrastructure  
Display



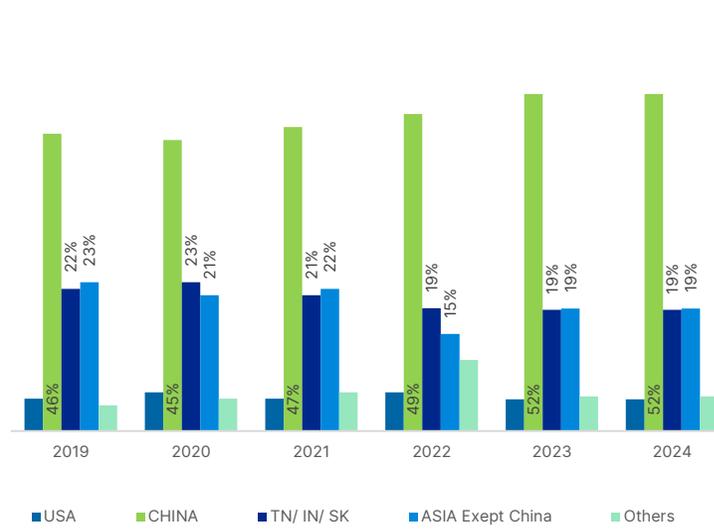
# Understand the Impacts & contributions



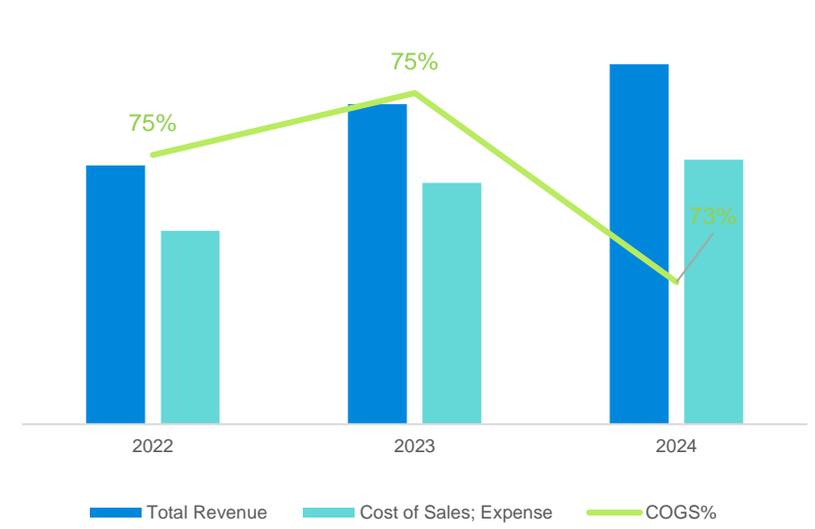
# Drivers Behind Our ESG Value Chain Shift : Internal factors



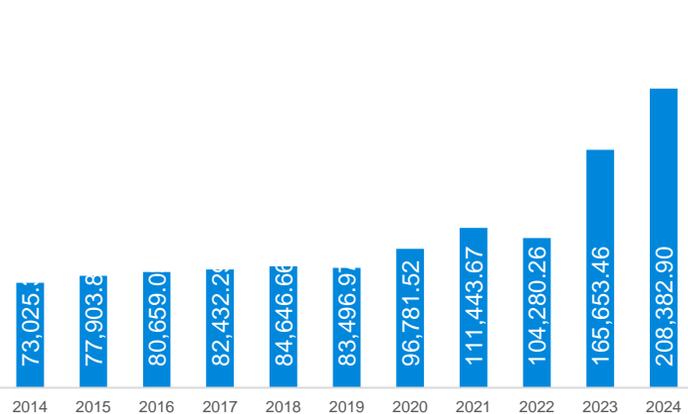
Geographic spread of our spending of raw material



COGS%



Energy Consumption 2014-2024 (Mwh)



EU Revenue to Total Revenue



According to the EU Taxonomy, Delta's collectively ensures "Do No Significant Harm" across Climate Mitigation, Climate Adaptation, Water, Pollution Prevention, Biodiversity, and the Circular Economy. Relevant minimum safeguards include the OECD Guidelines for Multinational Enterprises, the UN Guiding Principles on Business and Human Rights, the ILO Fundamental Principles and Rights at Work, and the International Bill of Human Rights, in compliance with point (17) of Article 2 of Regulation (EU) 2019/2088.



# Climate and energy transition goals.

- A reduction of net greenhouse gas (GHG) emissions by 66% to 72% by 2030 compared to 1990
- reducing net GHG emissions by at least 55% by 2030
- achieving climate neutrality by 2050.



- carbon neutrality by 2060
- peak carbon by 2030
- rapid reduction by 2045
- deep decarbonization by 2060.



- Thailand
- reducing net greenhouse gas (GHG) emissions by 47% from 2019
  - achieving a net-zero target by 2050.



- India:
- RE50 2030
  - Net-zero 2070



- Asean This plan includes specific 2030 targets of a
- 40% reduction in energy intensity, a
  - 30% renewable energy share in Total Primary Energy Supply (TPES),
  - 45% renewable energy share in installed power capacity.

- A 61-66% reduction in greenhouse gas (GHG) emissions by 2035 from 2005 levels
- achieving net-zero emissions economy-wide by 2050.



# A Business Built on Sustainability

Environmental, Social, Governance

Mission Statement

“To provide innovative, clean and energy-efficient solutions for a better tomorrow.”



Innovation

Eco-efficient operation

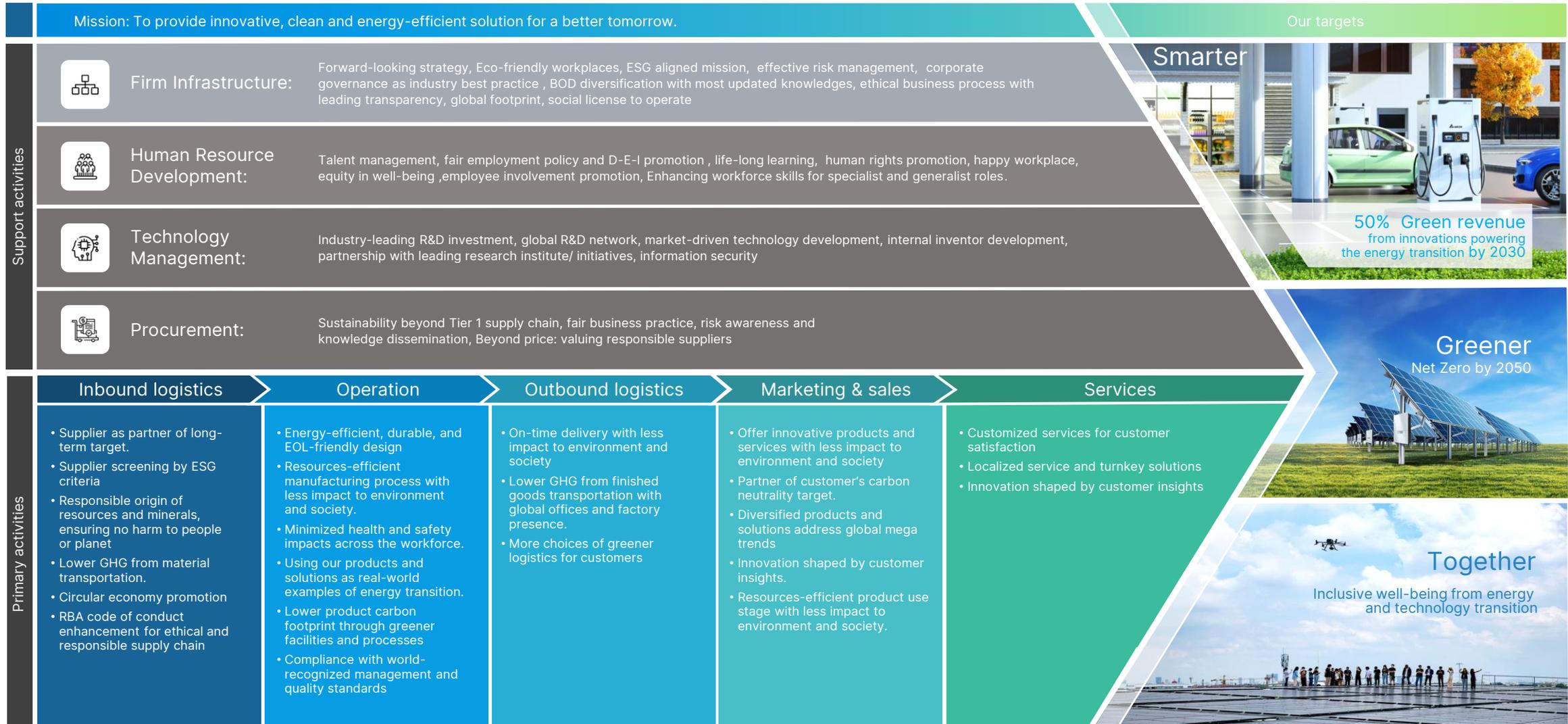
Partnership

## Delivering Value Add for Stakeholders

Shareholders		Customer		Employee		Supplier		Community	
<b>Good Returns</b>		<b>High Value Added Products/ Solutions</b>		<b>Well-being</b>		<b>Partnership</b>		<b>Give Back</b>	
Transparency	Accountability	Ethically Produced	High Efficiency	Respect Human Rights	Welfare	Win-Win	Socially Responsible	Assistance	Education



# Company Objective and the re-define the Value Chain





**Delta  
Energy-Saving  
from Three  
Dimensions**

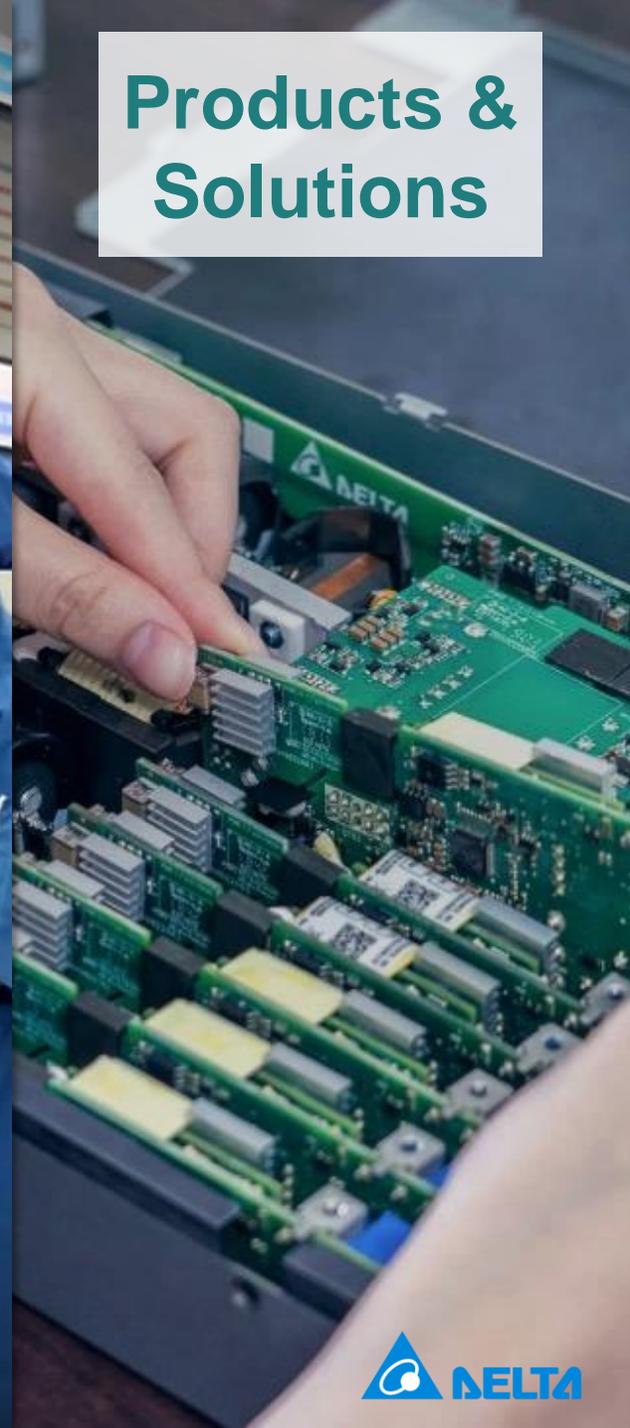
**Green  
Buildings**



**Operation  
Sites**



**Products &  
Solutions**



# Smart Green Factory

## Green Factory + Smart Energy-saving Monitoring Solutions

Delta Electronics  
Thailand  
Plant 5 (HQ)



GOLD

LEED Certified Gold  
Green Building

Thailand's 1<sup>st</sup> Green  
Industrial Factory



Accumulated Energy Savings  
(2014-2024)

31,945,302 kWh



Accumulated Solar Power  
Generation (2016-2024)

43,574,609 kWh



Accumulated Water Savings  
(2014-2024)

158,928 m<sup>3</sup>



Accumulated CO<sub>2</sub> Emission  
Reduction (2014-2024)

41,169 tCO<sub>2</sub>e

# Green Buildings Promotion

From 2006 to 2023, Delta established 34 green buildings and 2 certified green data centers.

In 2023, Delta's 20 certified green factory/office buildings and 5 donated campus buildings saved 43.26 million kWh of electricity and 22,694 tons of CO<sub>2</sub>e.



**Taipei HQs**  
LEED Platinum  
EEWH Diamond  
WELL HSR  
**Taipei Rueykuang Building 2**  
LEED Platinum  
EEWH Diamond  
Near-Zero Carbon



**Taoyuan Technology Center**  
LEED Gold  
EEWH Gold  
WELL HSR



**Taoyuan Plant 5**  
LEED Gold  
EEWH Gold



**Chungli Plant 5**  
LEED Gold  
Intelligent Building Gold



**Chungli R&D Building**  
LEED Gold



**Taichung Plant**  
LEED Gold  
EEWH Diamond  
WELL HSR



**Tainan Plant - Phase I**  
EEWH Diamond  
WELL HSR  
**Tainan Plant - Phase II**  
EEWH Diamond



**Delta Ring of Celestial Bliss**  
1st carbon footprint audit project



**Orchid House**  
2014 Solar Decathlon Europe 4 awards



**Namasia Elementary School**  
LEED Zero Energy  
LEED-EB Platinum  
EEWH Diamond



**Historical Lecture Hall, Taichung First Senior High School**  
Restoration in Green Building concept



**Tainan Plant 2**  
LEED Gold



**Shanghai R&D Center**  
LEED Gold  
WELL HSR



**Beijing Office**  
LEED Silver



**Thailand Plant 5**  
EEWH-OS Diamond



**Thailand Plant 7**  
LEED Gold



**Ako Energy Park**  
LEED-CI Gold



**Americas HQs**  
LEED Zero Energy  
LEED Platinum  
WELL HSR



**NCKU Delta Building**  
EEWH (2009~2012)



**NCKU Y.S. Sun Green Building**  
LEED Platinum  
EEWH Diamond



**NCU Kwoh-ting Optics and Photonics Building**  
EEWH Bronze (2015~2018)



**Taiwan NTHU Delta Hall**  
EEWH Bronze (2011~2014)



**EMEA HQs**  
BREEAM Very Good



**Helmond Office**  
LEED Gold



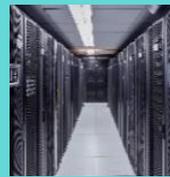
**India Rudrapur Plant**  
LEED Gold



**India Gurgaon Plant**  
LEED Platinum



**India Mumbai Office**  
LEED Platinum



**Delta HQs IT Data Center**  
LEED V4 ID+C Platinum



**Delta Wujiang IT Data Center**  
LEED V4 ID+C Gold



**Delta Sunshine Elementary School, Sichuan, China**  
First prize of Delta-Cup International Solar Building Design Competition



**Delta Sunshine Junior High School, Sichuan, China**  
First prize project replication of Delta-Cup International Solar Building Design Competition



**Delta Low-Carbon Residence, Jiangsu, China**  
First prize of Delta-Cup International Solar Building Design Competition  
Certificate of Green Building Design Label



**Low Energy Consumption Housing, Qinghai, China (Related project)**  
Group construction of Delta-Cup International Solar Building Design Competition winning projects



**Delta Sunshine Teaching Building, Dazhai High School, Yunan**  
First prize project replication of Delta-Cup International Solar Building Design Competition

# In-House Implementation for Customer Excellence



Delta Datacenter Infrastructure in Delta Thailand HQ



Delta PV inverters for solar rooftop in Delta plants



Delta Renewable Energy Solution in Delta plants



Delta EV Charging Solution for Delta plants



Delta Indoor Air Quality Solution for Delta plants



Delta Industrial Automation Solution for Delta plants

# Delta Products' Impact

410 projects implemented in 2023, saved more than 48 GWh of energy and avoided more than 36,297 metric tons CO<sub>2</sub>e

	2023	2011-2023
No. of Projects	79	708
Energy Saving (MWh)	9,740	79,938
Carbon Avoidance (MT)	6,445	57,777

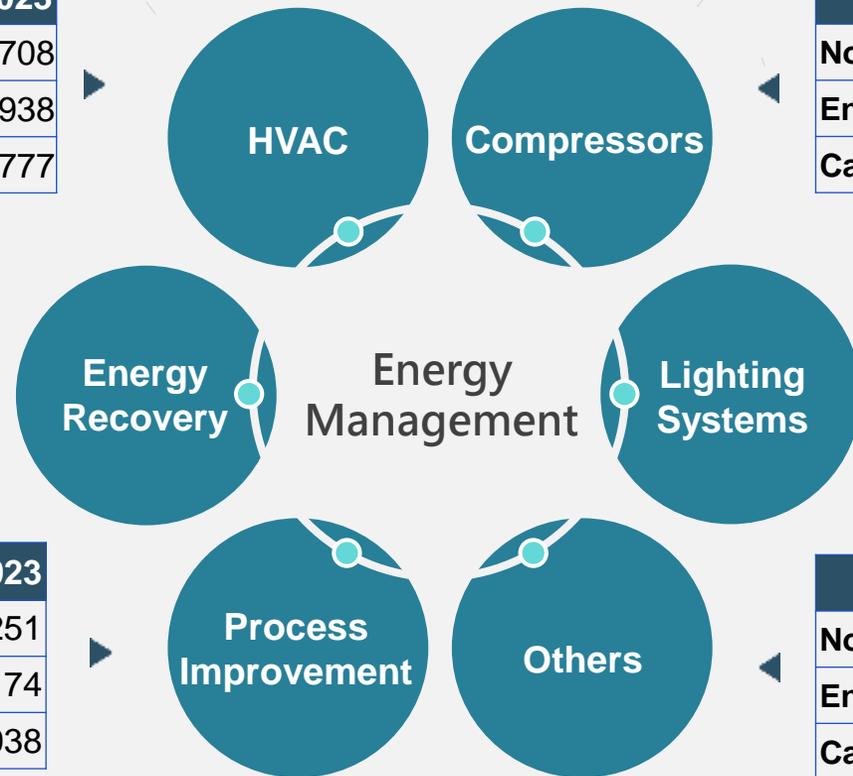
	2023	2011-2023
No. of Projects	37	290
Energy Saving (MWh)	7,478	40,683
Carbon Avoidance (MT)	5,668	30,512

	2023	2011-2023
No. of Projects	12	155
Energy Saving (MWh)	3,604	61,072
Carbon Avoidance (MT)	2,750	45,987

	2023	2011-2023
No. of Projects	32	255
Energy Saving (MWh)	7,166	23,187
Carbon Avoidance (MT)	5,382	21,749

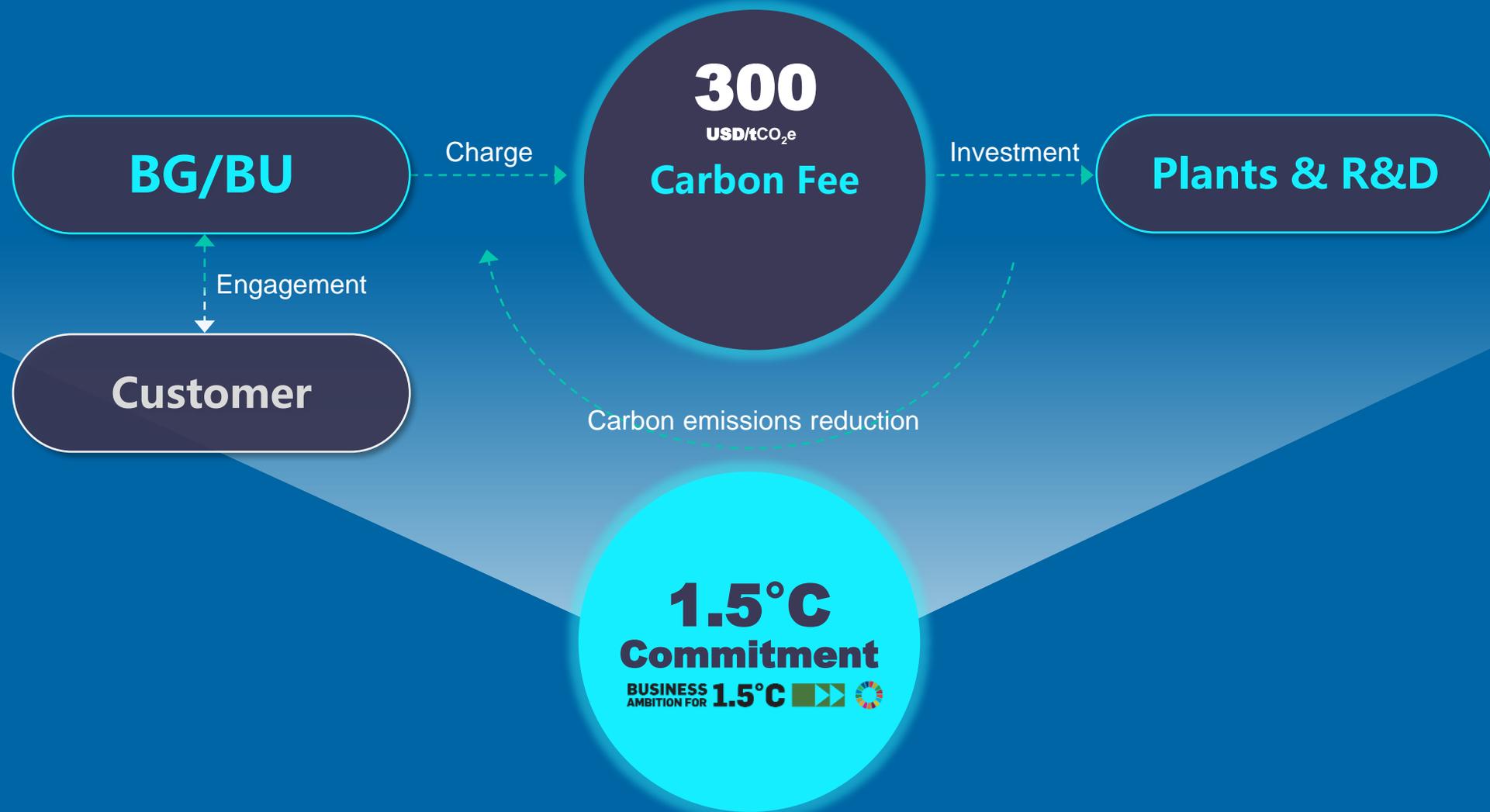
	2023	2011-2023
No. of Projects	215	1,251
Energy Saving (MWh)	18,735	109,174
Carbon Avoidance (MT)	14,690	84,938

	2023	2011-2023
No. of Projects	35	577
Energy Saving (MWh)	1,776	89,775
Carbon Avoidance (MT)	1,362	72,099



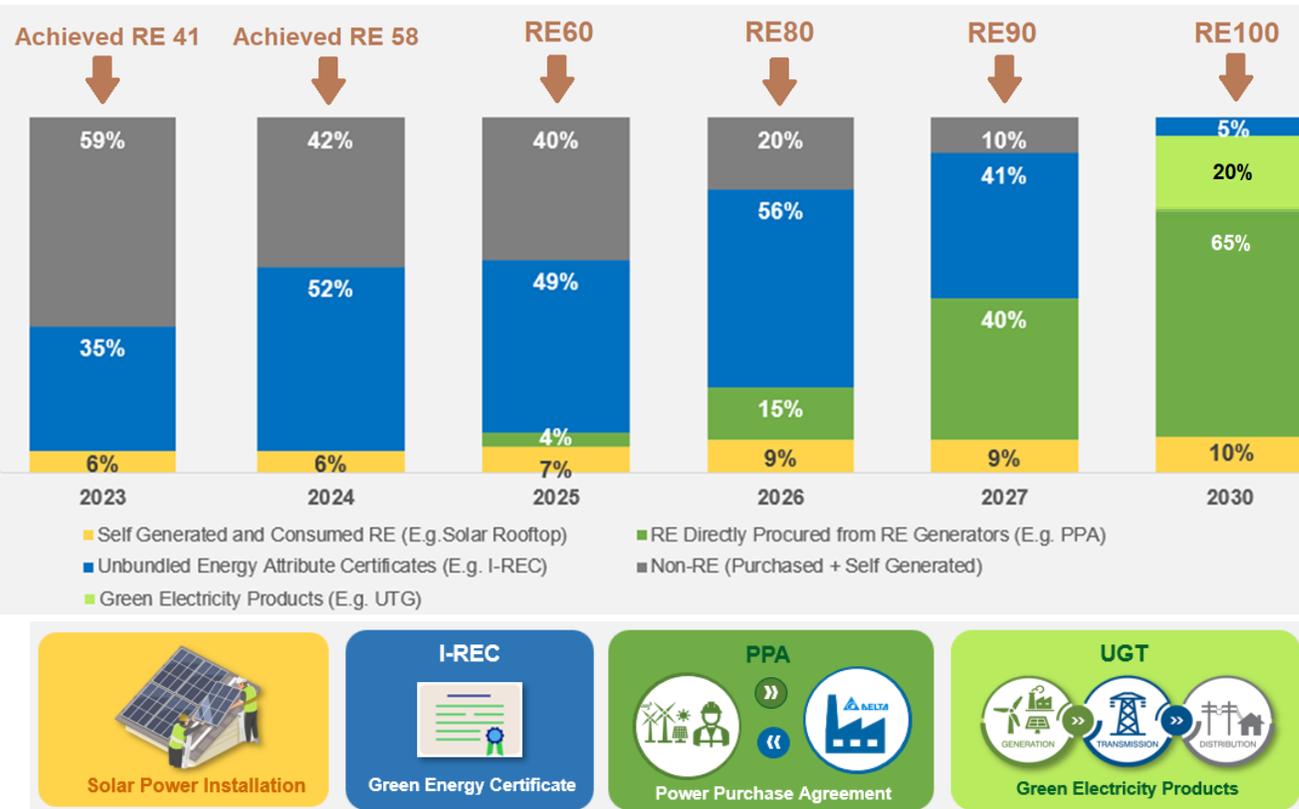
\*MT=Metric tons

# Internal Carbon Pricing Supports Low-carbon Technology Innovations



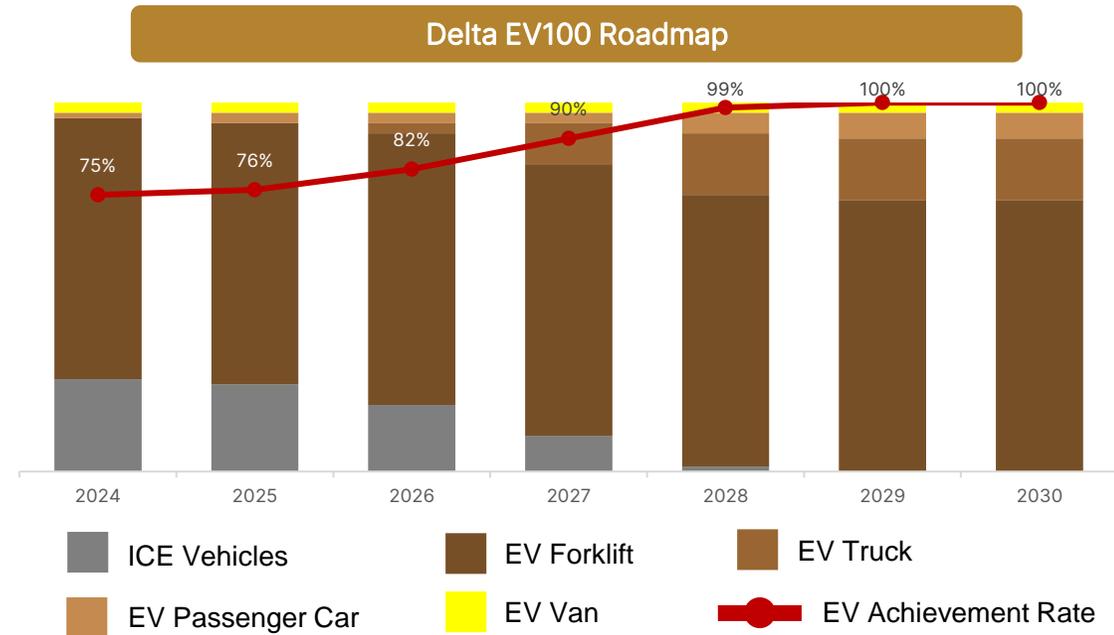
# 5.4 Delta Commit to RE100

## Delta Thailand Renewable Electricity (RE100) Roadmap



## Delta Electricity Vehicle (EV100) Roadmap

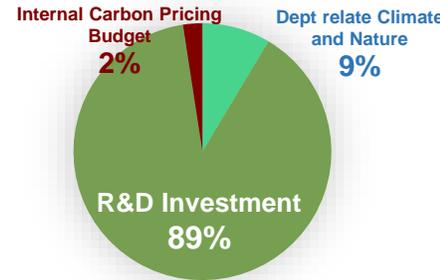
Management car and vans		Transition Diesel forklift to EV Forklift		Transition Diesel truck to EV Truck	
	EV 3 Units 43 % ICEV 4 Units		EV 51 Units 96 % ICEV 2 Units		EV 0 Unit 0 % ICEV 11 Units



## 4.4 Operating Expense (OPEX) For Climate-Related and Nature

To drive activities aimed at achieving our Net Zero target and Net Positive Impact in 2050, our company's Operating Expenditure (OPEX) for climate- and nature-related initiatives in 2024 totaled 4,488,473,350 THB. This figure represents 3% of our total operational cost. These expenditures cover key areas such as: Energy transition, Greenhouse gas (GHG) reduction, Research and Development (R&D), Employee capacity building, and Internal carbon pricing budget.

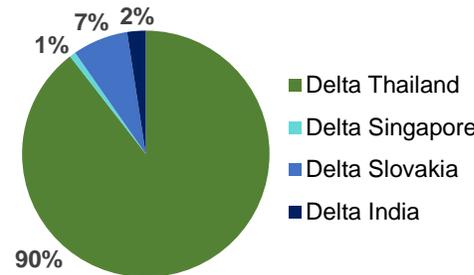
This OPEX amount was utilized with both tangible and intangible assets and was consolidated from our SAP system by the Business Finance Management (BFM) team, cross-referenced with the consolidated financial statements and the Internal Carbon Pricing (ICP) budget balance.



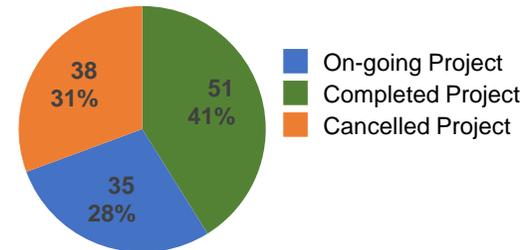
### 2024 ICP Project Summary

Delta's ICP pilot project began in 2022 and was fully utilized in Q4 2023. In 2024, 124 projects were submitted, including 111 from Delta Thailand, 1 from Delta Singapore, 3 from Delta India, and 9 from Delta Slovakia. By the end of 2024, 51 projects were completed, representing a 41% completion rate, while the rest remain under installation and testing, expected for completion in 2025.

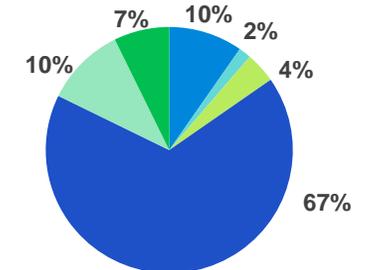
ICP Projects by Site



2024 ICP Project Status



ICP Project Category Breakdown



The actual spending totaled 125,339,117 THB across Thailand and its overseas subsidiaries. The accumulated energy savings amounted to 4,755,959 kWh, calculated from the installation completion date of each project through the end of 2024. This equates to a GHG emissions reduction of 2,488 tons CO<sub>2</sub>e (based on each location's local EF). The energy saving intensity was 0.038 kWh per THB spent. An investment of 1 million THB achieves a reduction of 20 tons CO<sub>2</sub>e, reflecting the project's carbon reduction efficiency in 2024.

**Average Payback Period for the completed Projects** **2.4 years**

Remark:

1. Reporting Period: January to December 2024
2. 2024, the ICP project report includes Delta sites in Thailand, Singapore, India, and Slovakia.
3. Electricity rate 5.37 THB/ kWh
4. Exchange rate: 1 USD = 32.5 THB; 1 USD = 1.31 SGD; 1 USD = 0.89286 EUR; 1 USD = 80 INR

### ICP Category

- E-E** Building in-house solar energy or other RE equipment
- E-R** Renewable Energy Certificates (REC)
- I-M** Sustainability Carbon Asset Management
- R-E** Energy Efficiency Enhancement and Energy Conservation
- R-T** Low-carbon Transportation Investment
- R-W** Water Resource Saving, Purifying, or Recycling and Reuse

# Delta Technology for Environment and Social Good



# Delta Technology for Environment and Social Good



# ESG Milestones

**1988**

- 1998 Establish Delta electronics (Thailand) PCL.

**1988**

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**1995**

- Listed in Stock Exchange of Thailand as "DELTA"

**2003**

- Acquire **ASCOM Energy system AG**
- Start operation in India

**2007**

- Establish manufacturing plants in Slovakia

**2011**

- Achieved **ISO14064-1** standards
- Achieve **ISO 50001** Standard

**2012**

- Start solar energy business
- First wind turbine installed in Europe
- Achieve 80 Plus Platinum for its high-efficiency power supply

**2014**

- Delta Thailand Carbon credit recorded by TGO for further offset

**2015**

- 2015 Sustainability Development Report

**2017**

- Merge Delta Power Solutions India with Delta Electronics India
- Establish R&D Center in USA
- LEED certified at Thailand HQ

**2019**

- Certified member of Thai CAC
- Implement **ISO27001**
- Invest in new factory in Krishnagiri, Tamil Nadu, India

**2021**

- Achieve UL2799A ZWTL, Platinum class
- Listed in DJSI World and Emerging Indices, ICT Industry
- Thailand Best Employer Award
- Rudrapur plant achieved 108% production target

**2023**

- Establish 3<sup>rd</sup> party Whistleblowing channels
- Utilize **Internal Carbon Pricing** mechanism to fasten renewable energy mix
- Achieve RE41
- CDP disclosure cover 100% of manufacturing site

**2024**

- Achieved **RE58**
- Winning Prime Minister's Best Industry Award
- The only company from Thailand listing in the Fortune Asia Future 30
- Expansion of Plant 8 and R&D Center for EV Manufacturing and Innovation
- Expand R&D operation sites in India



# Delta Thailand Recognition



GLOBAL

2021 - 2024  
Dow Jones Sustainability  
World Index  
By S&P Global

2022  
"A" Grade  
Supplier Engagement Leader  
By CDP

2017 - 2021, 2023 - 2024  
FTSE4Good Emerging Index  
By London Stock Exchange  
Group

2024  
AA in ESG Ratings  
By MSCI Global for Leadership in  
Employee Management

REGION

2022  
ASEAN Asset Class  
by ASEAN CG Scorecard  
Project



LOCAL

2024  
ASEAN Energy Awards  
Cutting-Edge Technology – Energy Efficient Building  
ASEAN Centre for Energy

2024  
ASEAN's Top Corporate Brand  
By Chulalongkorn University

2023  
The Prime Minister's  
Best Industry Award  
By Ministry of Industry

2017 - 2024  
Thailand Energy Awards  
By The Ministry of Energy

2016 - 2024  
Excellence in CG Score  
By IOD for CG Report

# Smarter. Greener. Together.



To learn more about Delta,  
please visit [www.DeltaThailand.com](http://www.DeltaThailand.com)  
or scan the QR code

