

# Delta Thailand Briefing

1Q/2024 Earnings - Three Month Period Ended 31 March 2024

May 2024 Delta Confidential



# Corporate Mission

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



**1,508 Delta PV inverters with up to 98.6% efficiency support a 75.4MW solar energy project in Denmark to power 32,250 homes / year**

# Brand Promise

## Smarter. Greener. Together.

### “Smarter”

is our continuous innovation in power electronics technology.

### “Greener”

represents Delta's mission since our founding.

### “Together”

is our business philosophy in building long-term partnership with our stakeholders.



# Corporate Culture

## Integrity

Honestly dedicated to achieving quality with our work, upholding the highest level of professional standards and matching our words with action.

## Innovation

Looking ahead to discover future possibilities, embracing continuous learning to innovate on creative solutions and breaking through the status quo.

## Collaboration

Creating synergetic partnerships that achieve shared goals with agility and precision, putting partners, clients and users at the center of our collaborative efforts.

## Inclusion

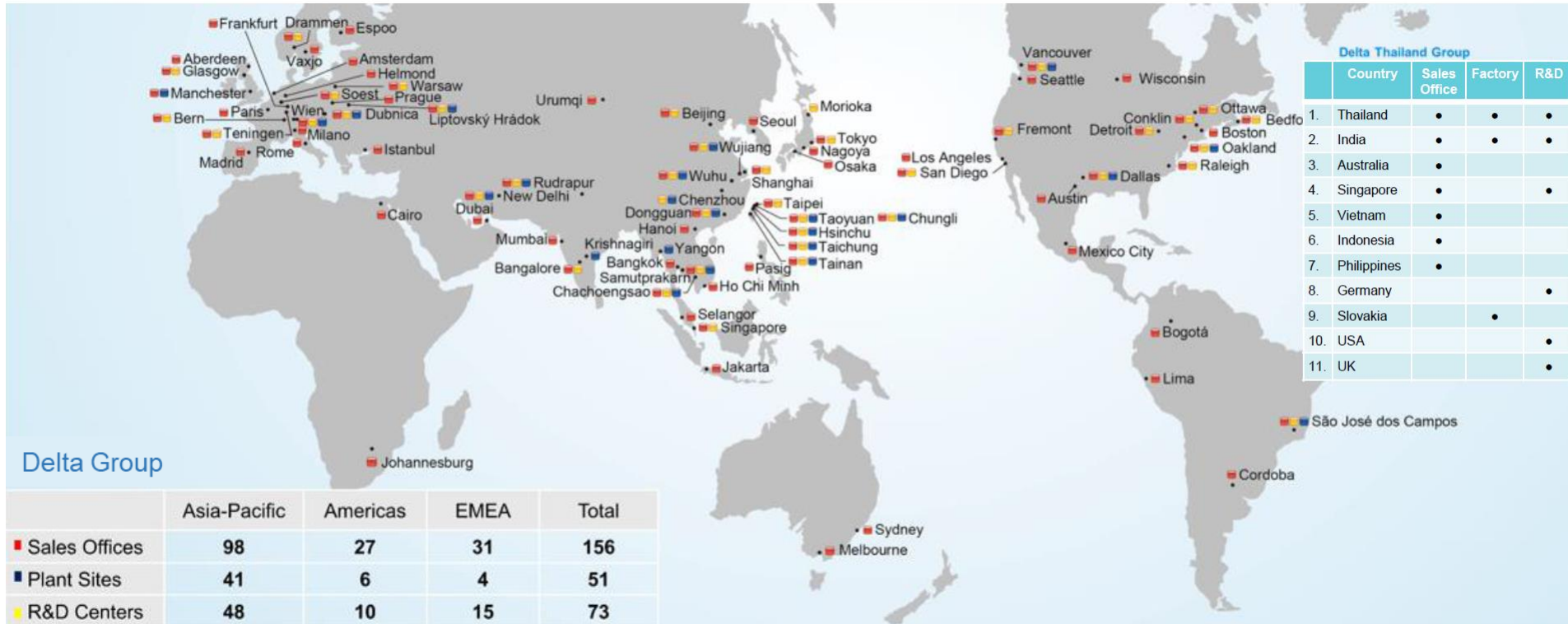
Open to diverse perspectives, respecting of differing opinions and inclusive of various backgrounds that offer unique contributions.

## Empowerment

Achieving our own success by empowering others to realize their own goals, encouraging active and enthusiastic growth to fulfill everyone's potential.



# Delta Group Global Operation



**Delta Thailand Group**

	Country	Sales Office	Factory	R&D
1.	Thailand	•	•	•
2.	India	•	•	•
3.	Australia	•		
4.	Singapore	•		•
5.	Vietnam	•		
6.	Indonesia	•		
7.	Philippines	•		
8.	Germany			•
9.	Slovakia		•	
10.	USA			•
11.	UK			•

Delta Group



# Delta Group Overview

- **Founded in 1971**
- **World's Leader in Switching Power Supplies and DC Brushless Fans**
- Dedicated to providing:
  - Telecom Power Systems
  - Industrial Automation
  - Passive and Magnetic Components
  - Networking Products
  - Visual Displays
  - Data Center Infrastructure
  - Renewable Energy and Energy Storage
  - EV Charging Infrastructure

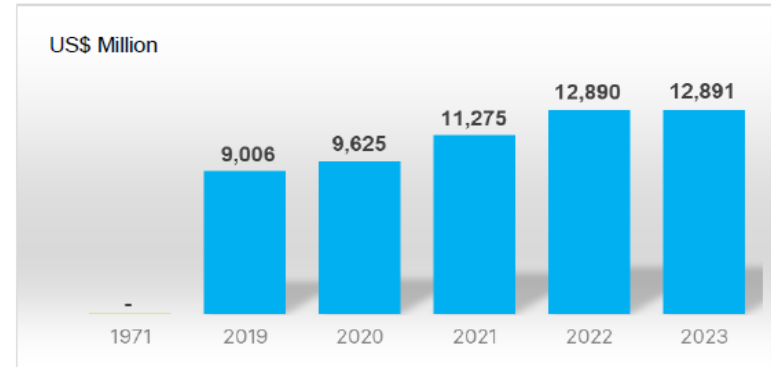


Bruce Cheng  
Founder and Honorary Chairman



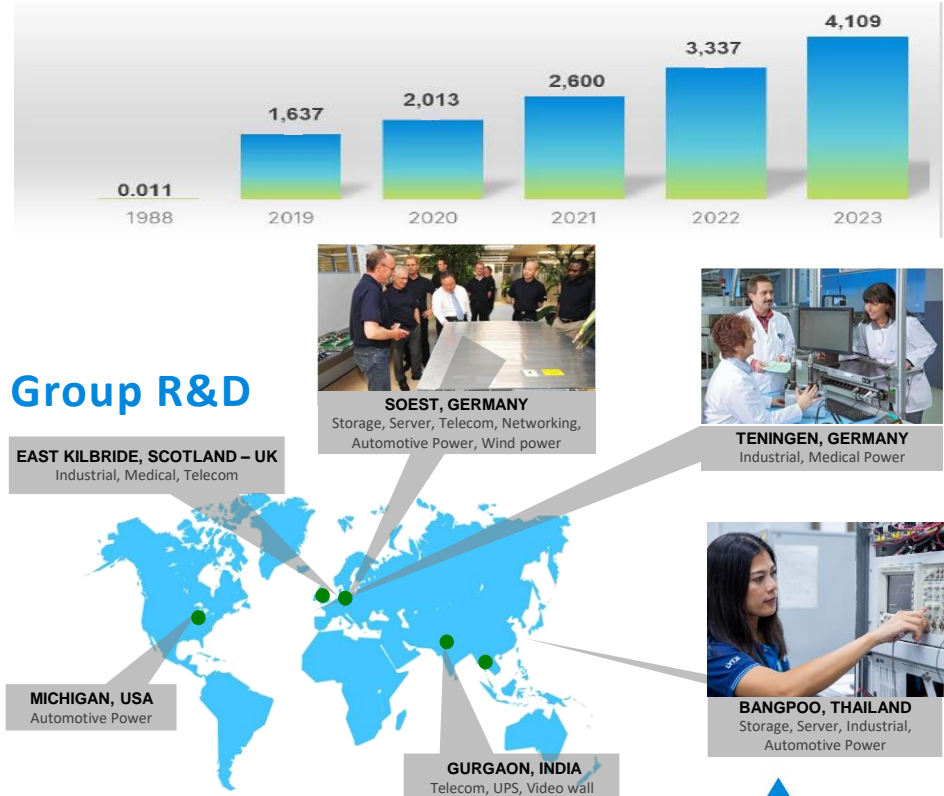
Yancey Hai  
Chairman

## Worldwide Revenues

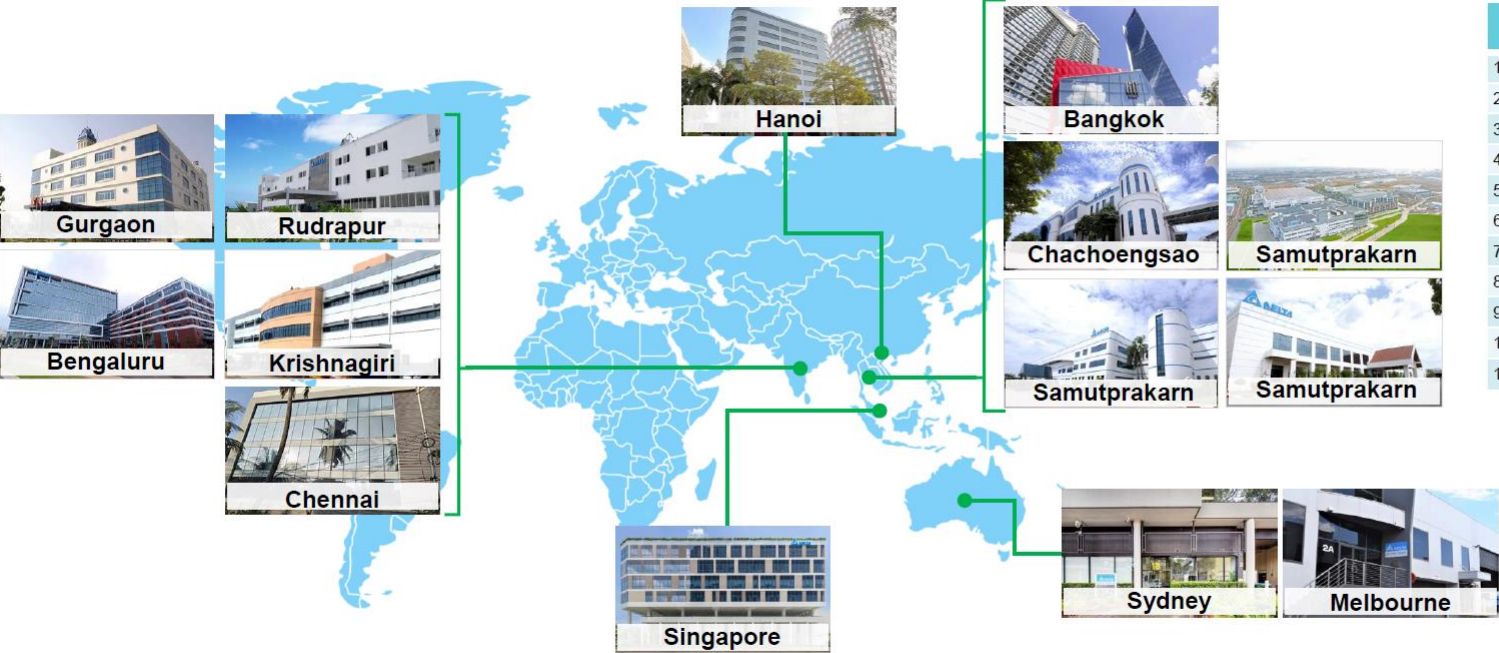


# Delta Thailand Overview

- **Founded in 1988**
- **Thailand's largest SET-listed electronics manufacturer on the Stock Exchange of Thailand**
- **Business management center** for Southeast Asia, India and Australia/ New Zealand markets
- **Product development management center with R&D centers in Bangkok (Thailand), Soest/ Teningen (Germany), UK, USA, India**
- **Manufacturing management center** to synergize advanced technologies and highly efficient production across manufacturing plants in Thailand, India, Slovakia



# Delta Thailand Group Business Locations (SEA, India, Oceania)



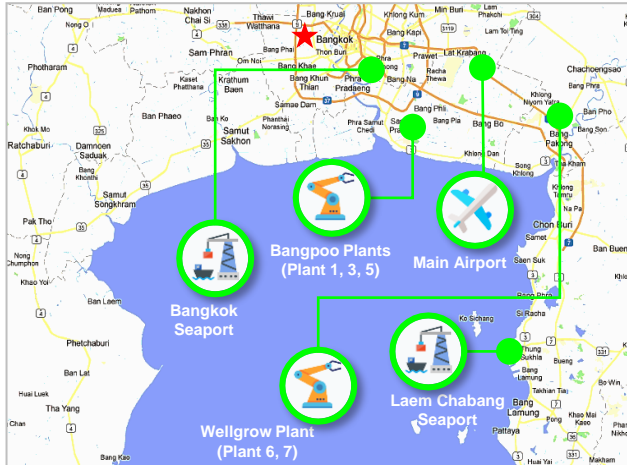
	Country	Sales Office	Factory	R&D
1.	Thailand	•	•	•
2.	India	•	•	•
3.	Australia	•		
4.	Singapore	•		•
5.	Vietnam	•		
6.	Indonesia	•		
7.	Philippines	•		
8.	Germany			•
9.	Slovakia		•	
10.	USA			•
11.	UK			•



# Delta Thailand Diversified Production Facilities

## Strategic Locations of Thailand factories

Delta Thailand's manufacturing plants are built near important seaports and international airport to ensure efficiency and security of logistics for global and regional delivery.



Country	Location	Occ %*	Product
Thailand	Bangpoo: Plant 1	78%	Automotive Electronics Product
	Bangpoo: Plant 3	84%	DNI Delta networking product Magnetics & Solenoids Product for Internal Use
	Bangpoo: Plant 5	100%	IT/ Appliance/ Industrial Power Solutions/ Customer Design Power/ Communication & Information Solutions/ Industrial & Medical Power
	Wellgrow: Plant 6	58%	DC Fan/ EMI Filter & Solenoids
	Wellgrow: Plant 7	88%	Computer & Networking/ DC Power
India	Gurgaon	88%	Display solutions products/ Industrial Automation
	Rudrapur	99%	Telecom Power System/ UPS/ Wind Power Converter
	Krishnagiri	82%	Power Supply/ Industrial Automation
Slovakia	Nova Dubnica	75%	Medical & Industrial Power Supply/ Bulk Power/ Telecom Power System
	Liptovsky Hradok	85%	Eltek Telecom Power System

\* Occupancy As at 31 December 2023



# Major Shareholders

A subsidiary of Delta Electronics, Inc. (Taiwan)

Top Shareholders (as of 8 March 2024)	Holding	%
DELTA ELETRONICS INT'L (SINGAPORE) PTE. LTD	5,344,793,060	42.85%
DELTA INTERNATIONAL HOLDING LIMITED	1,830,611,700	14.68%
CITI (NOMINEES) LIMITED-CBHK-PBGSG-RESTRICTED SHARES	1,728,454,200	13.86%
DELTA ELECTRONICS INC.	691,281,400	5.54%
THE HONGKONG AND SHANGHAI BANKING CORPORATION LIMITED, HONGKONG BRANCH	601,790,000	4.82%
RAFFLES NOMINEES (PTE) LIMITED	573,870,600	4.60%
UBS AG HONG KONG BRANCH	547,600,000	4.39%
THAI NVDR COMPANY LIMITED	320,132,271	2.57%
SOUTH EAST ASIA UK (TYPE C) NOMINEES LIMITED	106,444,359	0.85%
STATE STREET EUROPE LIMITED	84,806,422	0.68%
OTHERS	644,032,128	5.16%
<b>Total Shareholdings</b>	<b>12,473,816,140</b>	<b>100.00%</b>

# Business Categories



Components  
Power and System  
Fans & Thermal Management



EV Powertrain Systems



Industrial Automation  
Building Automation



ICT Infrastructure  
Energy Infrastructure  
Display



# Delta Green Solutions



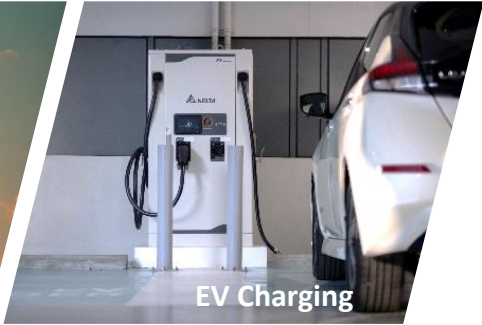
Industrial Automation  
And Smart Manufacturing



Datacenter



Telecom Energy



EV Charging



Display and Monitoring



Building Automation



Smart Energy



# Smart Green Factory

## Green Factory + Smart Energy-saving Monitoring Solutions

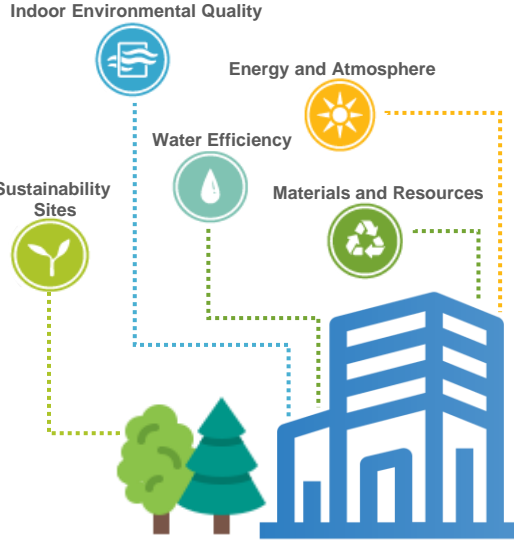
Delta Electronics  
Thailand  
Plant 5 (HQ)



GOLD

LEED Certified Gold  
Green Building

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



Accumulated Energy Savings  
(2014-2022)

**30,223,376 kWh**



Accumulated Solar Power  
Generation (2016-2022)

**24,360,700 kWh**



Accumulated Water Savings  
(2014-2022)

**134,589 m<sup>3</sup>**



Accumulated CO<sub>2</sub> Emission  
Reduction (2014-2022)

**30,701 tCO<sub>2</sub>e**

# Delta Solutions Address Global Megatrends

Climate Change  
(Renewables and Energy Application)

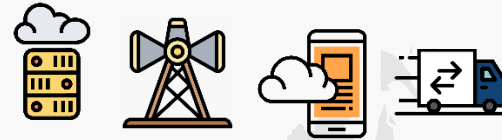
Technology Adoption  
(Connected and Smart Manufacturing)

## Rapid Urbanization (City Infra and Smart Application)

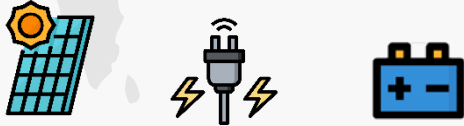
### Sustainable City and Building



### Connectivity and e-Commerce



### Energy Infrastructure

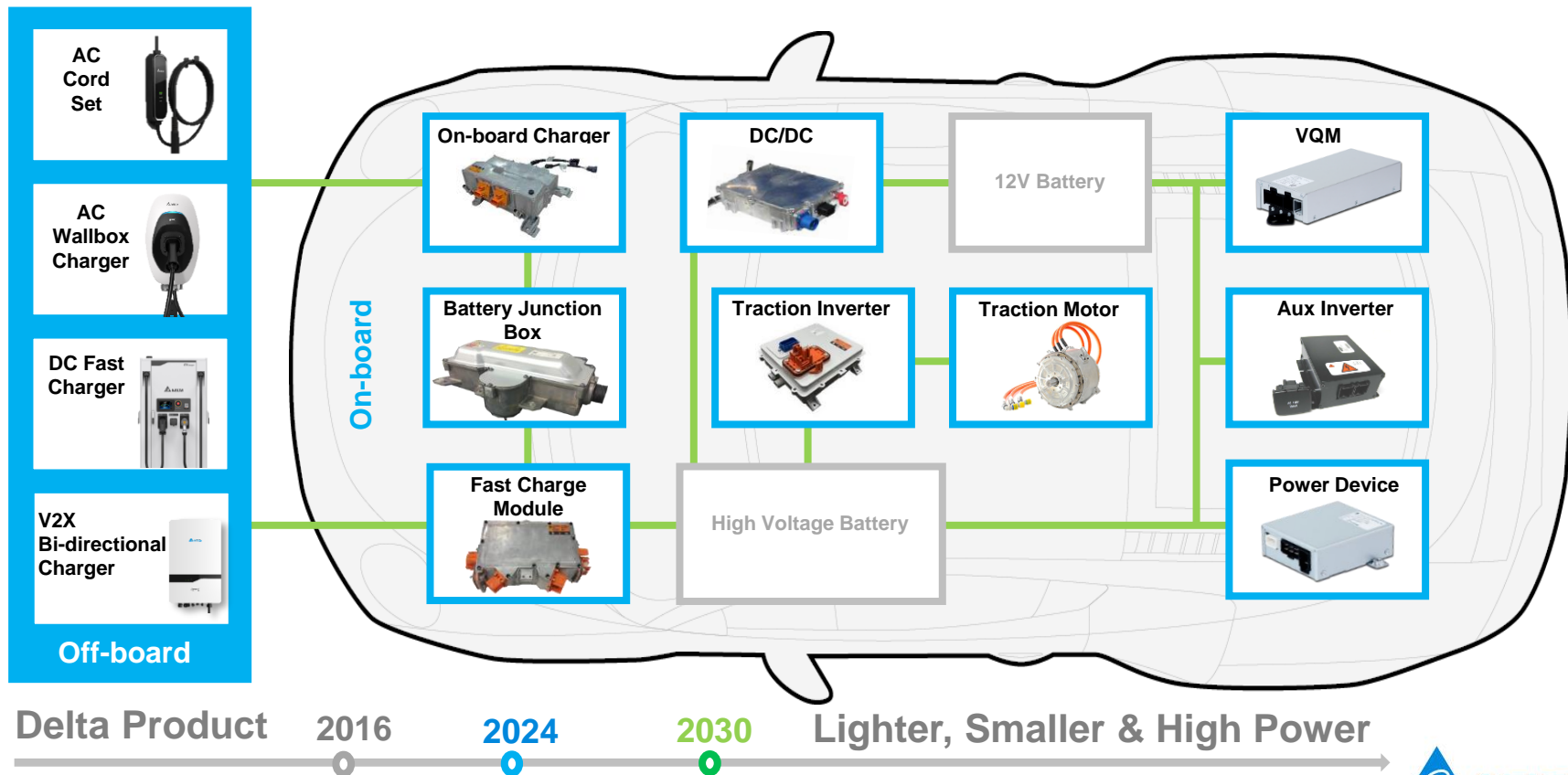


### Manufacturing Expansion

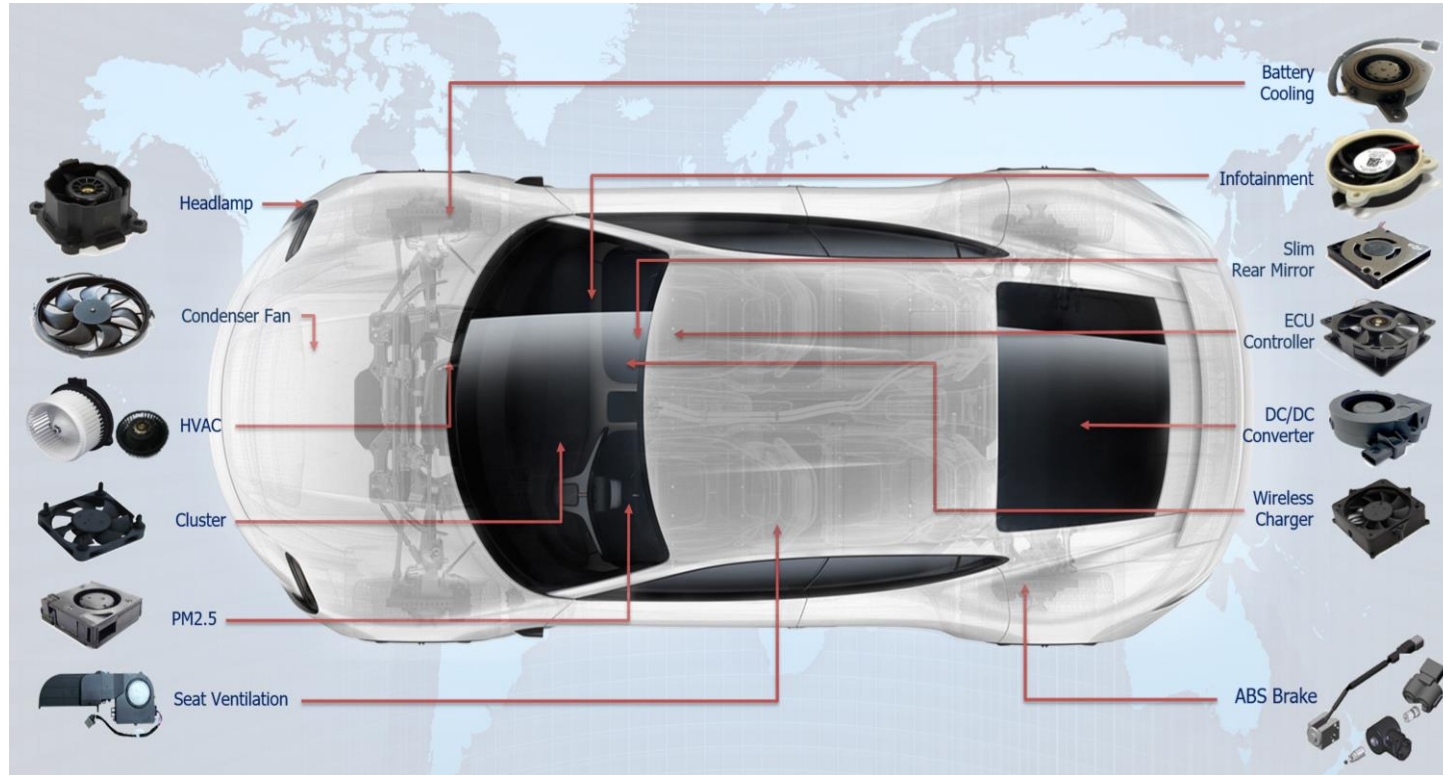


## Demographic Shift (Population Bonus and Middle Class)

# Delta Electric Vehicle Solutions



# Delta Thermal Management Products





# 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

Good Returns

Customer

High Value Added  
Products/ Solutions

Employee

Well-being

Supplier

Partnership

Community

Give Back



RE100

CLIMATE  
GROUP

CDP

# Delta Thailand ESG Recognitions



GLOBAL

2021 - 2023  
Dow Jones Sustainability  
World Index  
By S&P Global

2022  
"A" Grade  
Supplier Engagement Leader  
By CDP

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

2022  
AA in ESG Ratings  
By MSCI Global for Leadership in  
Employee Management

REGION

2022  
ASEAN Asset Class  
by ASEAN CG Scorecard Project



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



2017 - 2023  
Thailand Energy Awards  
By The Ministry of Energy



2019 Thailand's Top  
Corporate Brand Hall of Fame  
By Chulalongkorn University



2016 - 2022  
Excellence in CG Score  
By IOD for CG Report

LOCAL

2020  
ASEAN Energy Awards  
Large Industry- Energy Management  
By ASEAN Centre for Energy



# 1Q-2024 Financial Performance

# Financial Highlights

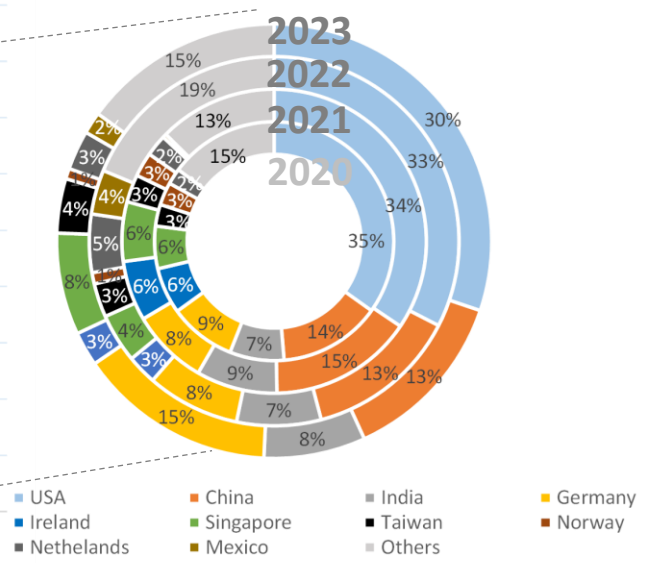
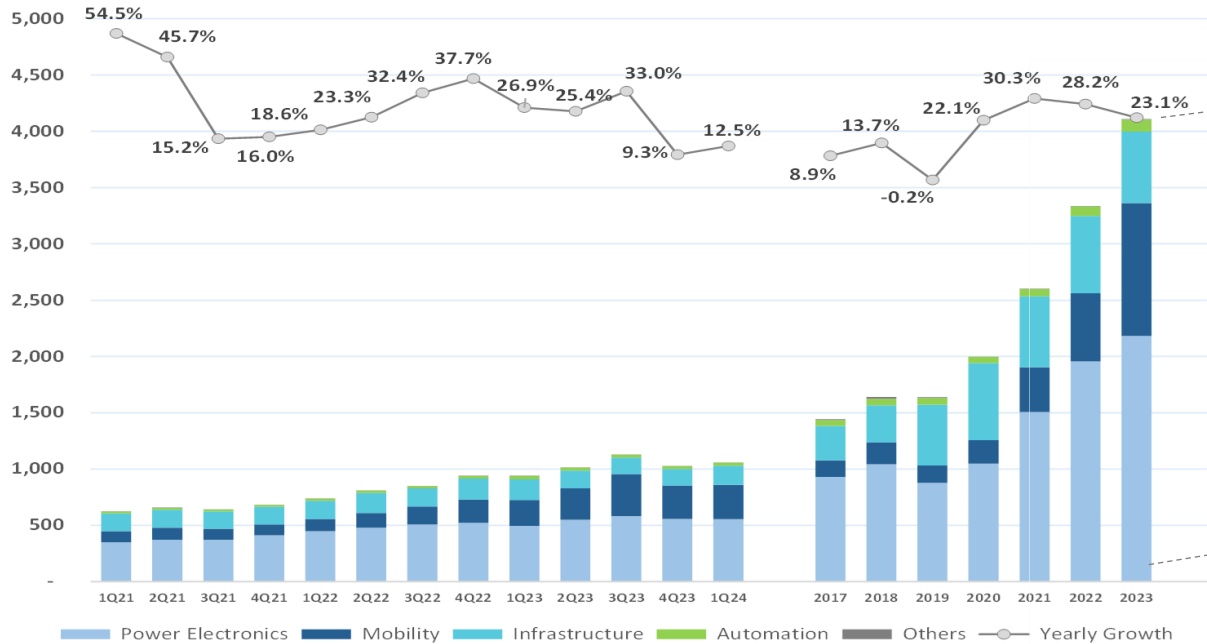
Unit : USD Million

Product Group	1Q22	2Q22	3Q22	4Q22	1Q23	2Q23	3Q23	4Q23	1Q24
Power Electronics	448	479	508	522	495	549	583	556	554
Mobility	110	131	159	205	231	278	372	299	305
Infrastructure	160	177	161	188	183	158	147	145	169
Automation	21	21	20	23	30	29	25	25	27
Others	2	1	0	1	1	1	1	1	1
<b>Sale Revenue</b>	<b>741</b>	<b>809</b>	<b>849</b>	<b>939</b>	<b>940</b>	<b>1,014</b>	<b>1,129</b>	<b>1,027</b>	<b>1,057</b>
<b>YoY Growth</b>	<b>19%</b>	<b>23%</b>	<b>32%</b>	<b>38%</b>	<b>27%</b>	<b>25%</b>	<b>33%</b>	<b>9%</b>	<b>12%</b>
Gross Profit	157 21.3%	204 25.3%	197 23.2%	232 24.7%	195 20.8%	237 23.3%	257 22.8%	241 23.5%	232 21.9%
Operating Profit	69 9.3%	113 14.0%	102 12.0%	129 13.7%	97 10.4%	132 13.0%	144 12.8%	127 12.4%	111 10.5%
<b>Net Profit</b>	<b>84</b> <b>11.3%</b>	<b>123</b> <b>15.2%</b>	<b>113</b> <b>13.3%</b>	<b>114</b> <b>12.1%</b>	<b>106</b> <b>11.3%</b>	<b>134</b> <b>13.2%</b>	<b>154</b> <b>13.6%</b>	<b>131</b> <b>12.7%</b>	<b>120</b> <b>11.4%</b>
<b>YoY Growth</b>	<b>46%</b>	<b>134%</b>	<b>145%</b>	<b>82%</b>	<b>26%</b>	<b>9%</b>	<b>36%</b>	<b>15%</b>	<b>14%</b>

2019	2020	2021	2022	2023
877	1,048	1,506	1,957	2,183
156	207	397	605	1,179
539	686	631	686	633
60	53	66	86	110
5	4	4	3	4
1,636	1,999	2,604	3,337	4,109
(0.2%)	22%	30%	28%	23%
337	488	539	791	930
20.6%	24.4%	20.7%	23.7%	22.6%
75	215	187	412	500
4.6%	10.7%	7.2%	12.3%	12.2%
94	225	209	434	524
5.8%	11.3%	8.0%	13.0%	12.8%
(40%)	139%	(7%)	108%	21%

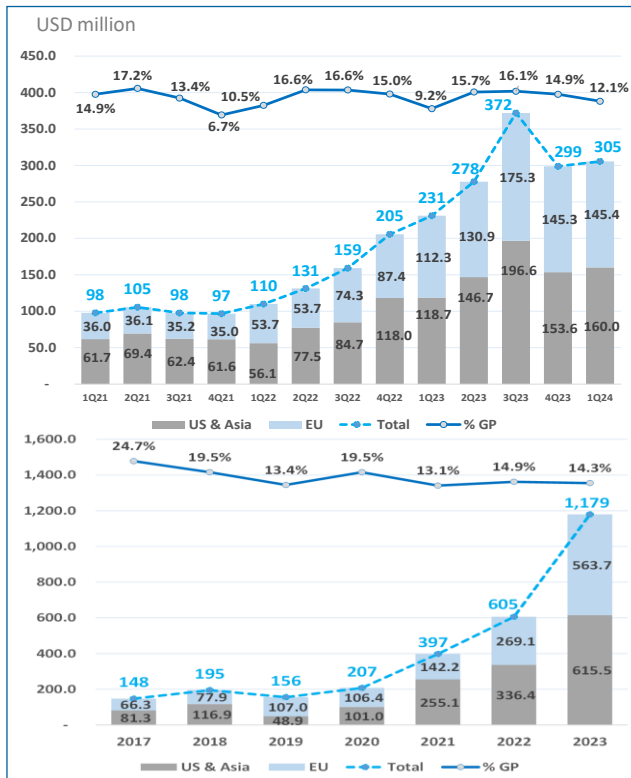
# Revenue Structure & Geographic Profile

Sales Revenue (USD million)

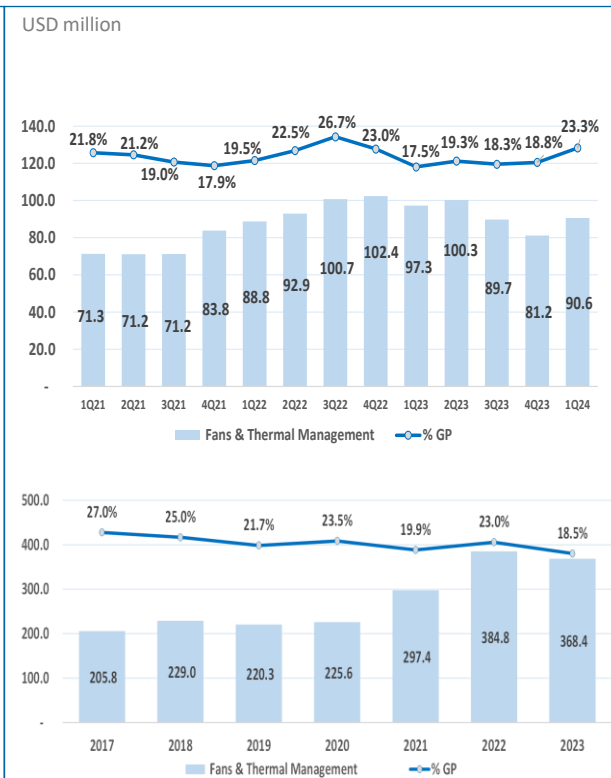


# Segmental Revenue Performance

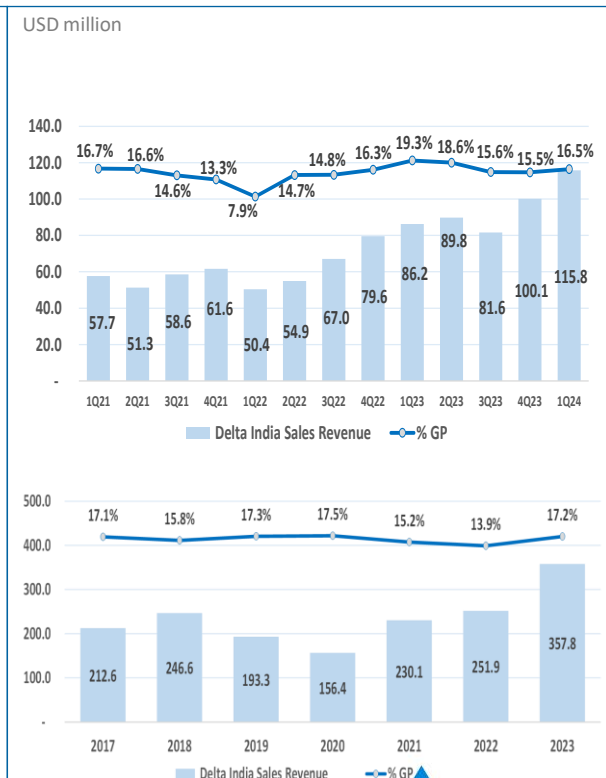
## Sales of EV Power



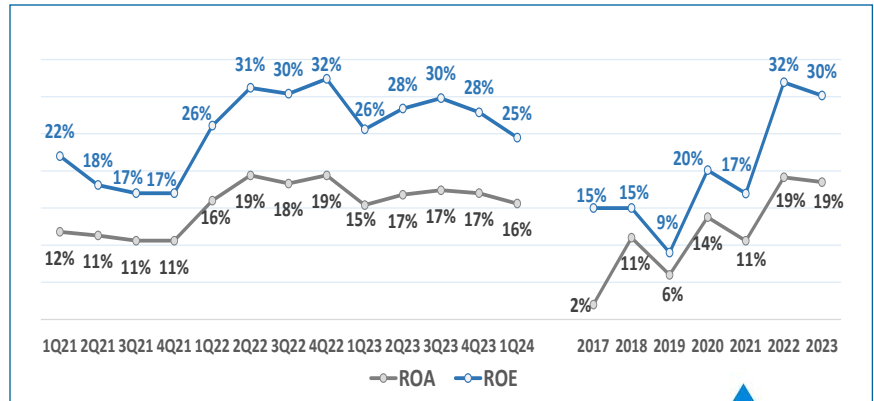
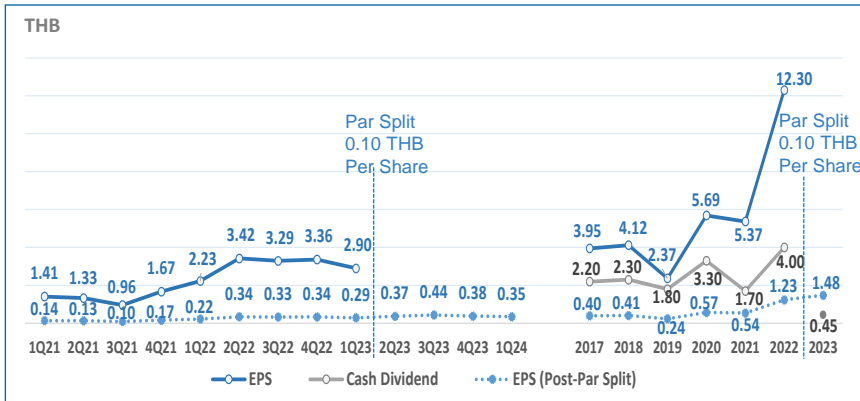
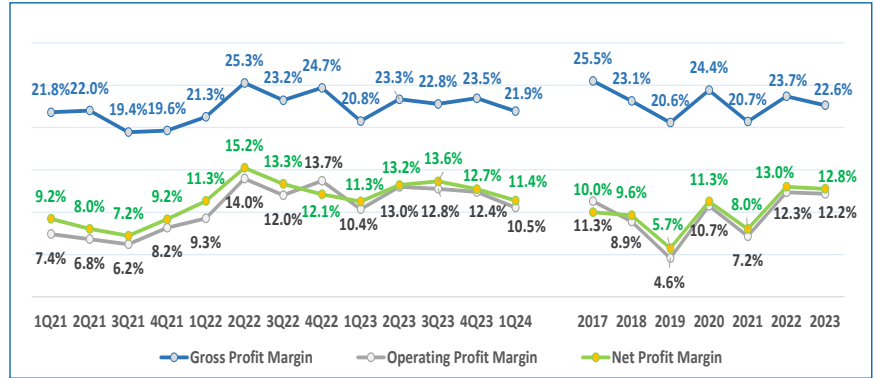
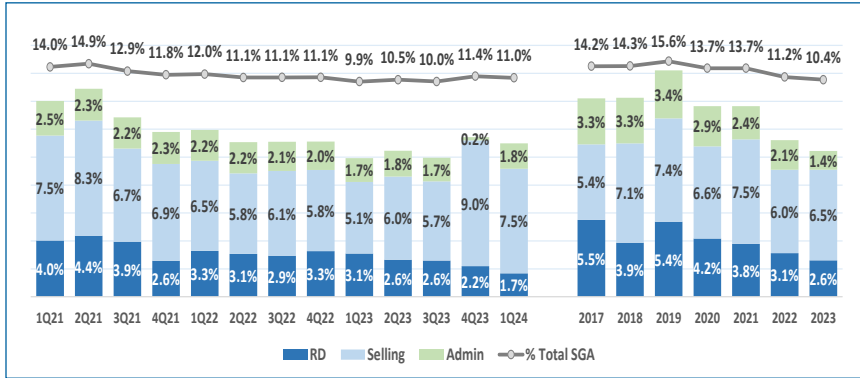
## Delta Fan & Thermal Management



## Delta India Business



# Profitability Performance



# Smarter. Greener. Together.



[IR@deltathailand.com](mailto:IR@deltathailand.com)

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





# High Value Added Products & Solutions

To deliver best in class solutions with energy efficient and sustainable technology



# Success Stories of Delta Group



Building control system for a luxury hotel in Tampa Bay



1,500 PV inverters for the largest ground-mounted solar park in Southern Germany.



EV charging solutions installed all across Europe



Modular UPS systems and InfraSuite Manager DCIM systems for cloud services provider in the Netherlands



EV Charging Station that is capable of assisting disaster response for the city of Yokohama



4.6 MW distributed solar power system with energy storage system in Ako, Japan



2MW/1MWh Energy Storage System for Xia Xing Power Station on Kinmen Island



Building management solutions provided by subsidiary Delta Controls for more than 180 buildings at a university in the eastern U.S.



Outdoor telecom power solutions with integrated PV systems for a telecom operator in Africa



Renewable energy solutions featuring subsidiary Eltek's Rectifier for 104 Hospitals in Zimbabwe under the UNDP's program



Modular containerized data center solution for a submarine cable landing station in Myanmar



Smart streetlight total solution including 21,000 LED streetlights for smart city project in Jakarta



Mobile plant-growing control system facilitating agricultural automation in New Zealand



One of the world's largest video wall with 324 DLP 80" cubes and DVCS system in China



Cross-system, cross-area building automation systems for Xi'an International Medical Center



Building management solution from subsidiary LOYTEC for Yangzhou Canal Grand Theater in China



High-power UPS solutions for Aibaba



Cloud-based energy management system for a large home appliance factory

# Energy Savings for Customers

From 2010 to 2022, Delta's high-efficiency products and solutions helped customers:



Electricity Consumption  
Savings of  
**39.9 B kWh**

Carbon Emissions  
Reduction  
**21.05 M Tons**

This is equivalent to  
greenhouse gas emissions  
from:

**4,673,136**  
gasoline-powered  
passenger vehicles  
driven for one year



Source: U.S. Environmental Protection Agency

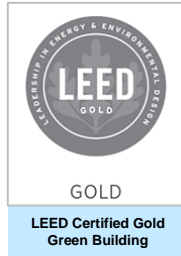


# Thailand

Bangpoo Plant 5 (HQ)



- Established in 1999
- Producing DC-DC Converters, Consumer Electronics Adaptor, Server, Networking, Telecom and Energy Storage Power Supplies
- R&D facility
- 778,250ft<sup>2</sup> (72,300m<sup>2</sup>)



Bangpoo Plant – Plant 1



- Established in 1990
- Producing Automotive Electronics
- 272,550ft<sup>2</sup> (25,320m<sup>2</sup>)



Bangpoo Plant – Plant 3



- Established in 2019
- Producing Networking Products
- 155,000ft<sup>2</sup> (14,400m<sup>2</sup>)



# Thailand

Wellgrow Plant 6



- Established in 2001
- Producing DC Fans, EMI Filters, Magnetic Components and Solenoids/Valve
- R&D facility
- 376,600ft<sup>2</sup> (35,000m<sup>2</sup>)

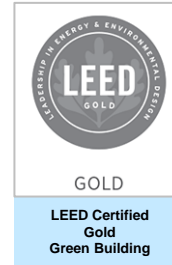


High-tech Parylene Coating Process

Wellgrow Plant 7



- Established in 2021
- Producing DC-DC Converters, Server, Networking and Storage Power Supply
- 531,758 ft<sup>2</sup> (49,402m<sup>2</sup>)



Plant 8 and R&D Center



- To be operational in Q1' 2024
- Mainly for EV and ICT-related products to meet growing demand
- Both manufacturing and RD facilities
- 327,223ft<sup>2</sup> (30,400m<sup>2</sup>)

# India

Gurgaon Plant  
(Head Office)



- The company was established since 1992 with current building in operation since 2009
- Major products: Display solutions
- R&D facility
- 118,403ft<sup>2</sup> (11,000m<sup>2</sup>)



IGBC Certified  
**PLATINUM** Green  
Building in  
association with  
LEED

Rudrapur  
Plant



- Established: 2008
- Certified Gold rated Green Building
- Major products: Telecom Power Systems and UPS
- 215,284ft<sup>2</sup> (20,000m<sup>2</sup>)



IGBC Certified  
**GOLD** Green  
Building in  
association with  
LEED

# India

Bengaluru R&D



- Fully operational: Q3 2023
- Main R&D center for India
- Products: Railways(PQC), EV, solar, two wheeler charging
- 209,896.5ft<sup>2</sup> (19,500m<sup>2</sup>)

Krishnagiri Plant



- Established: 2020
- Mainly for EV and ICT related products to meet growing demand
- 2,530,836ft<sup>2</sup> (235,122m<sup>2</sup>)

# Slovakia

Dubnica Plant



- Established since 2007
- Major products: High end Server Networking, Industrial, Medical, Solar Inverter, Telecom Power System, EV chargers
- Total land area: 72,000m<sup>2</sup>
- IMS: ISO 9001/14001, OHSAS 18001
- Medical: ISO 13485

Liptovsky Plant



- Established since 2022
- Major products: Cabinets, IT and Telecom Power Solutions
- Total land area: 5,100 m<sup>2</sup>



# Germany

Soest



- Developing advanced power products for storage, server, telecom, networking, automotive and wind energy.



Teningen



- Established since 2022
- Major products: Cabinets, IT and Telecom Power Solutions
- Total land area: 5,100 m<sup>2</sup>



# Delta is Everywhere

We Provide the Answers with High Value Added Products & Solutions



*Delta datacenter  
for leading telco  
in Vietnam*



*Delta provides Mitsubishi  
Thailand with EV charger  
and battery solutions*



*Delta security  
cam in Bangkok's  
public transport*



*Delta EV chargers in  
major Bangkok mall*

# Power Electronics Components



Power Chokes  
for Portable Devices / Cloud Computing / Automotive  
Ultra Small Sizes down to  $1.2 \times 1.0 \times 0.6 \text{ mm}^3$   
Max Operating Temp.  $180^\circ\text{C}$



Optical Transceiver  
Modules



RF Modules



EMI Filters / Solenoids



Power Magnetic Components  
for Portable Devices /  
Industrial / Automotive Applications



Power Modules for Portable Devices /  
Cloud Computing / Industrial Applications  
Smallest Sizes down to  $2.0 \times 2.5 \times 1.1 \text{ mm}^3$



Current Sensing Resistors for Portable Devices /  
Automotive / Industrial Applications  
Small Sizes down to  $0201\text{mm}$  High Wattage up to  $36\text{W}$   
Automotive Shunt Sensor Modules  
High Accuracy  $\pm 0.1\%$  / ASIL-C



Miniaturization Fuse Resistance Protectors  
Small Sizes down to  $4.0 \times 3.0 \times 0.85 \text{ mm}^3$

# Power Electronics

## Power & System

### AI Server Power



### Data Center Power



### DC-DC Converters



### Edge Computing and Data Storage Power



### Single-Phase UPS Systems



# Power Electronics

## Power & System

### Networking Power



Ethernet Switch and Router Power Supplies



Network Device Power Supplies



Workstation Computer and High-end Desktop Computer Power Supplies



Surveillance and Safety Device Power Supplies



Multi-Function Printer Power Board



WiFi Router Adapter



CPE Power Supplies and PoE Injectors



Game Console Power Supplies



Portable Adapters



Portable Power Station

# Power Electronics

## Power & System

### Industrial Power Supplies



Industrial Power Supplies

### Medical Power Supplies



Medical Power Supplies

### LED Drivers



Commercial LED Drivers

Signage LED Drivers



Roadway LED Drivers



Outdoor LED Drivers



Industrial Adapters



DC-UPS & Redundancy Modules



Medical Adapters

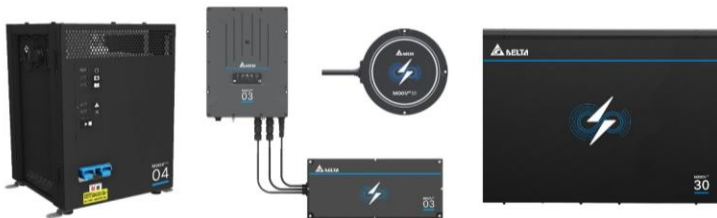


Refrigerator / Freezer LED Drivers

# Power Electronics

## Power & System

### Low-Speed E-Mobility Power



Wireless Charging Systems for Industrial e-Vehicles

### Hydrogen Power Systems



### Appliance Power and Power Tool Chargers



Chargers and Adapters for e-Scooters / e-Bikes

Battery Charging / Swapping Stations for e-Scooters / e-Bikes



USB-C PD Sockets



Power Tool Chargers



Home / Commercial Appliance Power and Control Boards

# Power Electronics

## Fans & Thermal Management



Server, Storage, Industrial and Consumer Fans and Blowers



Thermal Management Products :  
Liquid and Air Cooling Solutions



Slim Vapor Chambers / Heat Pipes /  
Slim Fans and Blowers



Automotive Fans and Blowers /  
Thermal Management Products



Electronically Commutated Fans



Ventilation Fans / Heater Fans  
Fresh Air Systems / Circulation Fans



Climate Thermal Solution Products :  
Air Conditioners and Heat Exchangers



# Power Electronics

Innergie

A brand of 

## Power Adapters



**- One For All Series -**  
30 W – 100 W

## Power Banks



Pocketcell  
5,000 / 10,000 / 25,000 mAh



Mobile Power Stations  
200 Wh / 400 Wh

## Laptop Adapters



**- Laptop Series-**  
45 W – 280 W

## Accessories



C-C Cables  
(Braided & Silicone)



WTPK  
(US, EU, UK, AU)



C-Converters



Wireless  
Magnetic Chargers

# Mobility

## EV Powertrain Systems

### EV Power Electronics



400V On Board Chargers



800V On Board Chargers



400V Bi-Directional OBC



800V Bi-Directional OBC



400V DC/DC Converters



800V DC/DC Converters



On Board Generators



EVCC  
(Electric Vehicle Communication Controller)



Auxiliary Inverters

# Mobility

## EV Powertrain Systems

### Traction



48V Traction Motors



400V Traction Motors



800V Traction Motors



400V Traction Inverters



800V Traction Inverters



Integrated Motor Drives

### X-in-1



OBCM-DCDC Integration



Inverter-OBCM-DCDC Integration



Bi-directional OBCM-DCDC Integration



Inverter-OBCM-DCDC-EVCC Integration

# Automation

## Industrial Automation

### Automation Integration



**DIAEAP**  
Equipment Automation Program

**DIASECS**  
Semiconductor Equipment  
Standard Communication and  
Control Application Software

**DIACFX**  
Electronics Assembly Equipment  
Standard Communication and  
Control Application Software

### Manufacturing Management



**DIAMES**  
Manufacturing Execution System

**DIAEMS**  
Equipment Management System

**DIASPC**  
Statistical Process Control

**DIASVP**  
Smart Visualization Platform

**DIAAMS**  
Alarm Management System

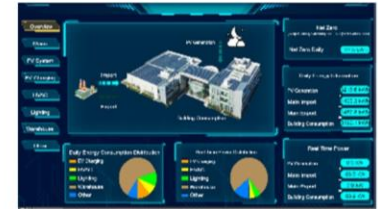
### Intra-Plant Logistics



**DIAWMS**  
Warehouse Management System

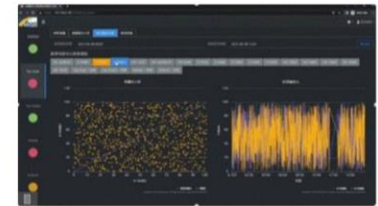
**DIAMCS**  
Material Control System

### Energy Saving & Facility Monitoring



**VTScada | DIAView**  
SCADA System

**DIAEnergie**  
Industrial Energy Management  
System (IEMS)



Equipment Predictive Maintenance  
(PdM AI)

# Automation

## Industrial Automation

— Smart Screwdrivers —

— Robots —

— Smart Equipment —

- Electronics Assembly -

- Semiconductors -

- Passive Components -



SCARA Robots



Surface Mount Assembly



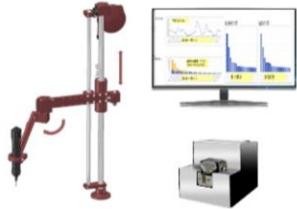
Customized Equipment



Wafer  
Edge Grinding



Power Inductor  
Winding



Smart Screwdriving Systems



6-axis Articulated & Modular Robots



Insertion



DIATwin  
Digital Twin Machine Platform  
(RTM)



Wafer  
Edge Profile



SMT Six-Side  
Inspection

# Automation

## Industrial Automation

Network



IIoT Industrial Cloud Routers /  
Industrial Fieldbus Solutions



Industrial Network Solutions

Control



Industrial PCs (IPC / PPC)



Human Machine Interfaces (HMI)



Programmable Logic Controllers (PLC)



PLC-Based / Standalone  
Motion Controllers



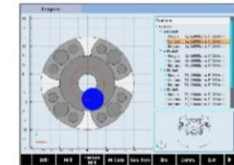
CNC Controllers



Robot Controllers



Temperature Controllers



CAD / CAM Computer-Aided  
Design / Manufacturing

# Automation

## Industrial Automation

Drive & Motion

Field Devices



AC Motor Drives



Servo Systems



Pressure Sensors



Optical Sensors



Motion Sensors



e-LSV / e-Bike / e-Scooter  
Powertrains



Planetary Gearboxes



Linear Motion



Industrial Cameras



Machine Vision Systems



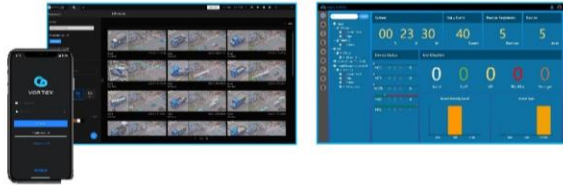
Smart Power Meters

# Automation



## Building Automation

### AI Surveillance



- Surveillance -

- Access -

### Digital Building Management



- HVAC Control / Room Control / Lighting Control / Energy Management / Facility Maintenance -



Network Video Recorders



Access Controllers



Room Controllers



Lighting Controllers and Modules



IoT Controllers / Automation Servers / I/O Controllers



Network Cameras



Facial Recognition Cameras and Readers



Sensor Hubs



Network Thermostats



Multi-Sensors



Programmable Touch Panels





# Automation



## Building Automation

### Healthy Environmental Management



Indoor Air Quality Management Platforms

Energy Recovery Ventilation



Indoor Air Quality Monitors



UVC Disinfection Devices

### LED Intelligent Lighting



Commercial Lights

Industrial Lights

### Smart Community and City



Street Lights



# Infrastructure

## ICT Infrastructure

### Telecom Power Systems



Outdoor Individual Rectifiers



Remote Monitoring & Management Solutions (RMMS)



Controllers



Power Cores



Rectifiers  
230Vac / 1500VA  
48Vdc / 1200W



High Efficiency  
Rectifiers



Inverters



Indoor Telecom Power  
Systems



Renewable Hybrid  
Power Systems



Outdoor Telecom  
Power Systems

### Networking Systems



SOHO Wireless  
Routers



SMB / Enterprise  
Wireless APs



SMB / Enterprise  
Ethernet Switches



SD-WAN



Next-Generation Firewalls  
(NGFW)



Data Center  
Ethernet Switches



Automotive  
Ethernet Switches



Level 3/4-Autonomous  
Driving Systems

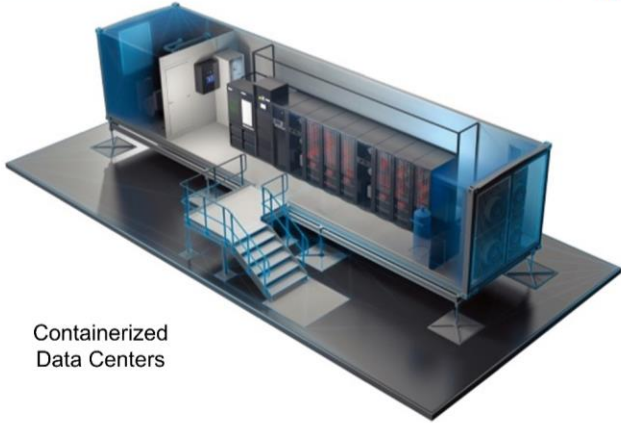


Chassis  
Ethernet Switches

# Infrastructure

## ICT Infrastructure

### UPS & Data Center Infrastructure



Containerized  
Data Centers



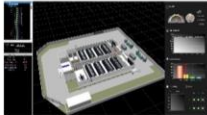
Micro Data Centers



Modular Data Centers



Power Train Units



Data Center Infrastructure  
Management (DCIM)



UPSs



Converged Power  
Systems



Precision Cooling



48/12Vdc  
Power Cores



Racks



Power Distribution Units  
(PDU)

# Infrastructure

## Energy Infrastructure

### EV Charging



DC Chargers



AC Chargers



V2X Chargers



DC Fast Chargers



DeltaGrid® EVM  
EV Charging Management  
Systems

### Renewables and Energy Storage



DeltaGrid® EM  
Energy Management  
Systems



DeltaGrid®  
Gateway and Controllers



PV Inverters



Wind Power Converters



Prefabricated Energy  
Storage Systems



Power Conditioning Systems



Battery Energy Storage Systems

# Infrastructure

## Industrial Solutions

### Automatic Test Systems



AC/DC EV Charger Automatic Test Systems



Power Supply Automatic Test Systems

### Power Supplies



High Voltage Power Supplies



Programmable DC Power Supplies



Programmable AC Power Sources

### Energy Recycling Systems



Energy-Recycling Burn-in Chambers



Energy Recycling Systems

### High Power Motor Drives



Medium Voltage Drives

# Infrastructure

## Image & Medical

### Healthcare



Glucose Meters

Glucose Strips



Fingertip Pulse Oximeters



Electromechanical  
Drug Delivery Systems

### Medical Testing Equipment



Automated Nucleic Acid  
Analysis Systems



Automated Multi-channel  
Nucleic Analysis Systems

### Imaging Equipment



- X-ray Systems for Vets
- X-ray Generators for Humans



Preclinical Micro CT



- Optical Coherence Tomography
- Ultrasound Imaging Systems

# Infrastructure

## Display Solutions

### Display & Visualization



Distributive Vision Control Systems (DVCS)

**DIGITAL PROJECTION**  
A Delta Associate Company



8K DLP® Laser Projectors



DLP Video Walls



LED Displays

# Infrastructure



Pocket & Personal Projectors



Portable Projectors



Home Cinema Projectors



Multimedia Projectors



Education Projectors



Large Venue Projectors



Novo Collaboration Solutions



# Where You Can Find Us

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