Climate Change Mitigation: Sustainability Implementation in Urban Mobility

Bruce Cheng
Founder and Honorary Chairman
Delta Group
World No. 1
Power Supply Provider
World No. 1
Brushless DC Fans Provider

Delta Confidential
Corporate Mission

To provide innovative, clean and energy efficient solutions for better tomorrow.
Delta’s Contribution

From 2010 to 2016, Delta’s high-efficient products shipped worldwide enabled:

- Electricity Consumption Savings of 20.8 B KWh
- Carbon Emissions Reduction of 11.07 M Tons
International Recognition

Delta was named to the DJSI World Index for 7 consecutive years.

Delta is the only company from the Greater China Region to be listed in the Climate Performance Leader Index (CPLI).
Delta reduced the electricity intensity of its major plants by 50% from 2009 to 2014.

Baseline: Same scope of buildings and output values as in 2009.
Temperature anomalies

Year 1900

Data source:
NASA GISS Surface Temperature Analysis (GISTEMP)
Land-Ocean Temperature Index, ERSSTv4, 1200km smoothing
https://data.giss.nasa.gov/gistemp/

Source: https://youtu.be/K4Ra2HR27pQ
Antti Lipponen (@anttili)
50% of oil consumption is in transport sector
Transport sector accounts for $1/3$ of greenhouse gas emission in the U.S.
To fulfill the goal of carbon emission by 2050, 70% of global vehicle stock should be EV.
EV is a clear trend for the future vehicle development.
The First Hybrid Car in Taiwan
EV Charging Solutions
EV Charging Solutions

DELTA Quick EV charging stations and site management systems supporting e-mobility around the world
Energy Storage System

ESS stabilizes the power supply to the grid for electric vehicle
Manchester Airport Lighting Management System

LUX Award of "Industrial and Transport Lighting Project of the Year" in 2016
In Kaohsiung, Delta provides over \( \frac{1}{2} \) of LED streetlights.
Dock Lifting Energy Recycle System

Onshore power supply can reduce 96% of particle pollutant.
Delta Tainan Plant II
NCKU Y.S. Sun Green Building Research Center

EEWH Diamond
LEED Platinum
Energy Saving of 73% (EUI = 34)
No.1 Carbon Neutral Campus Building in Taiwan

- EUI Definition: Divided by the total annual electricity consumption of the building floor area, unit: kWh/m².yr
Taipei HQs Green Building Retrofit

EEWH-RN Diamond
LEED Platinum
Carbon Reduction 51.75%
No.1 Commercial Building with lowest emissions In Taiwan
Delta Americas HQs

LEED Platinum

UC Berkeley’s CBE: Livable Buildings Award
Delta Confidential

Namasia Ming Chuan Elementary School

Net-Zero Green Building

EEWH Diamond

Energy Saving of 74% (EUI<7)

No.1

Net-Zero Energy Consumption Campus in Taiwan

- EUI Definition: Divided by the total annual electricity consumption of the building floor area, unit: kWh/m².yr
From 2006 to 2017, Delta has established 25 green buildings. In 2016, Delta Group’s certified green buildings saved 15.2 million kWh of electricity, and 10,027 tons of CO₂.

Pioneer in Green Buildings
台灣好水 美麗視界
Water with Life in 8K
Together,
We can create a better tomorrow


To learn more about Delta, please visit www.deltaww.com.