

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





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

MEMBER OF

**Dow Jones
Sustainability Indices**

In Collaboration with RobecoSAM 

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)

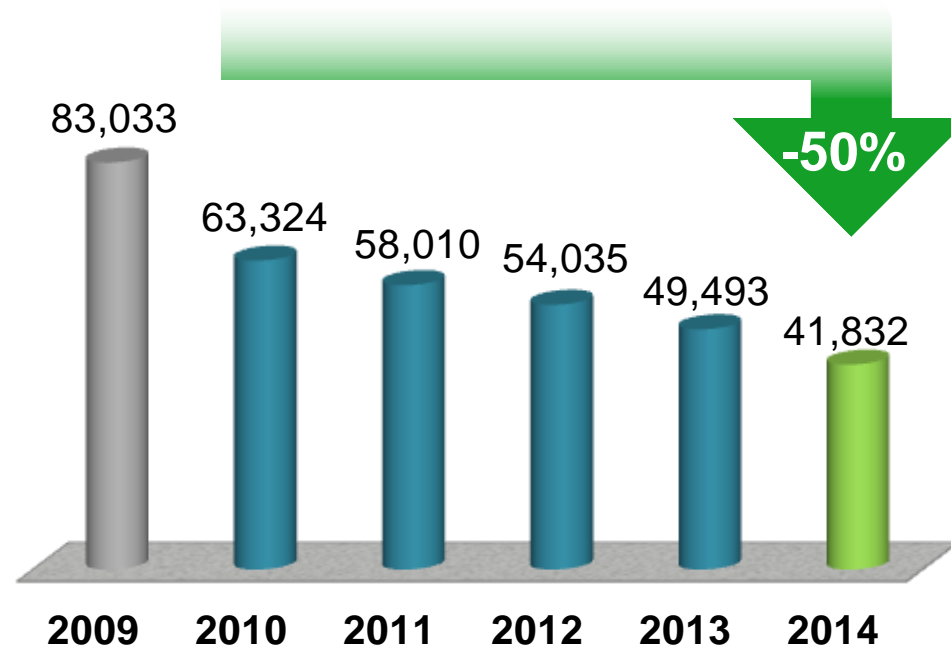


Energy-saving Achievements

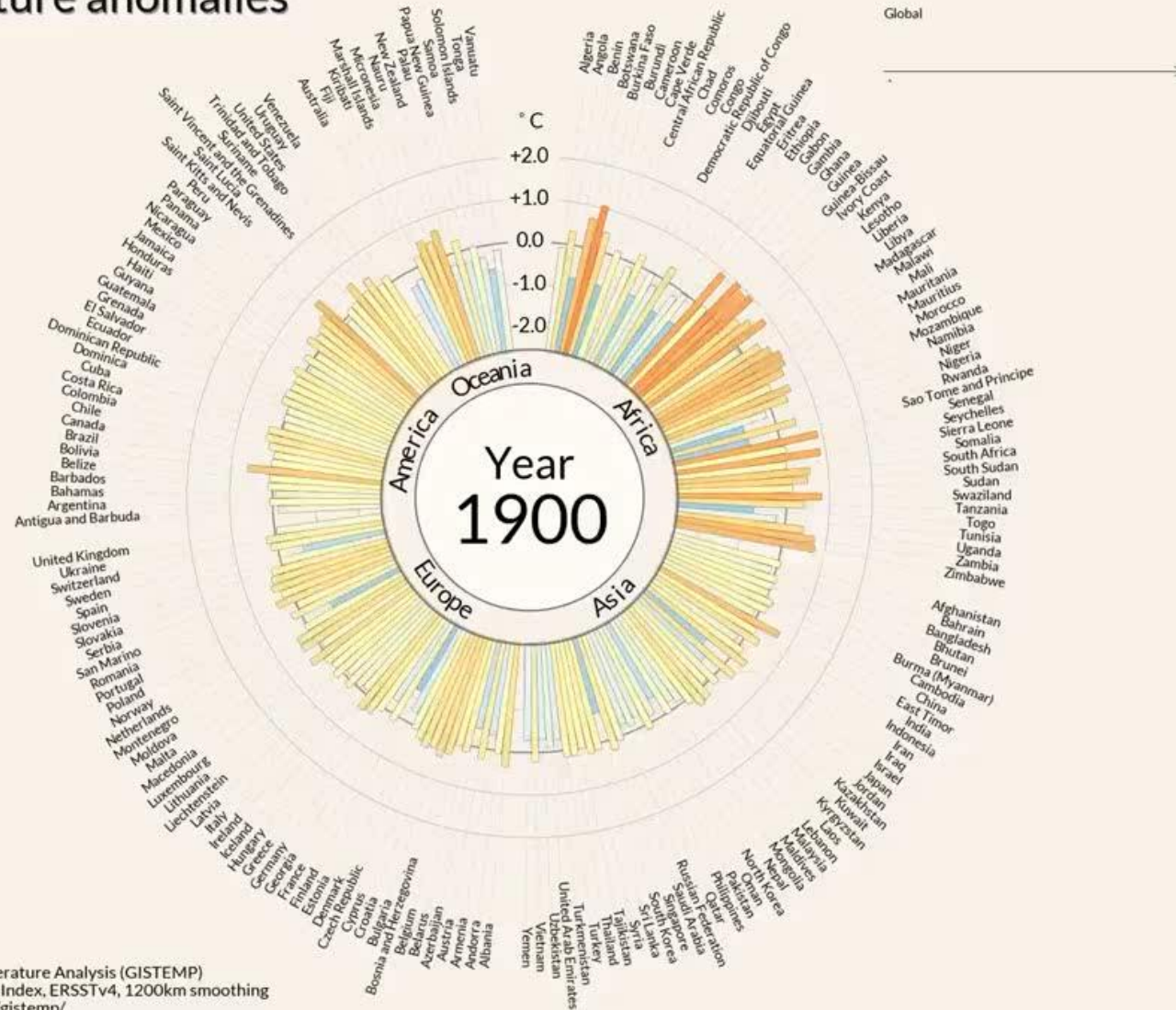
Delta's Commitment

Delta reduced the electricity intensity of its major plants
by 50% from 2009 to 2014

Electricity Intensity
(kWh/M USD)



Temperature anomalies



Data source:
 NASA GISS Surface Temperature Analysis (GISTEMP)
 Land-Ocean Temperature Index, ERSSTv4, 1200km smoothing
<https://data.giss.nasa.gov/gistemp/>
 Average of monthly temperature anomalies. GISTEMP base period 1951-1980.

Source: <https://youtu.be/K4Ra2HR27pQ>

Antti Lipponen (@anttilip)

United States
美國

Canada
加拿大

Finland
芬蘭

Norway
挪威

UAE
阿聯

Russia
俄羅斯

Kazakhstan
哈薩克

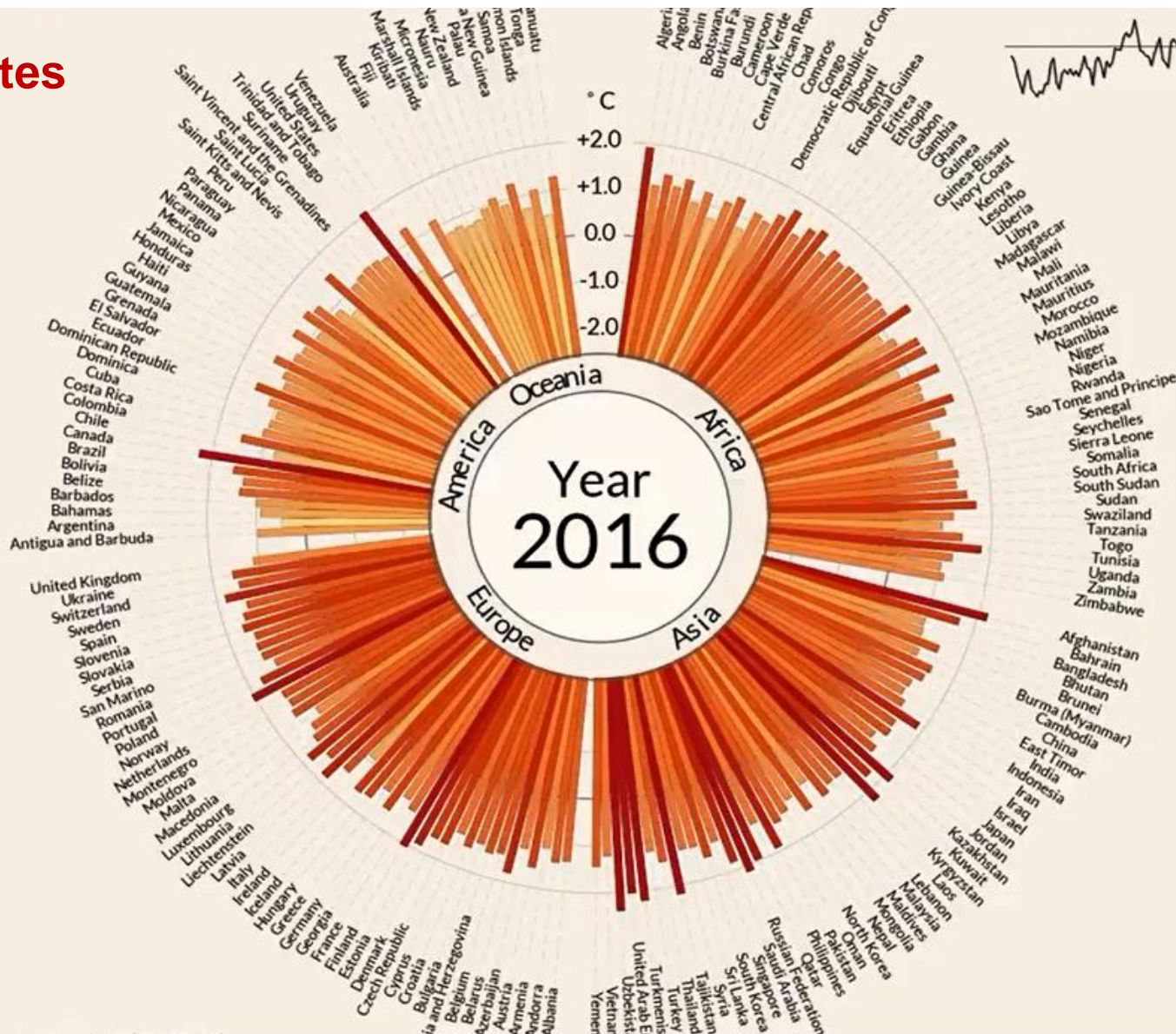
Kyrgyzstan
吉爾吉斯

Tajikistan
塔吉克

Turkmenistan
土庫曼

Uzbekistan
烏茲別克

Afghanistan
阿富汗



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



拋磚引玉的古道熱腸

未來展望

如果是像台達這樣的公司來造車，我們將熱切地期待。

TOYOTA Prius 引進成本估價圖

美國當地售價	約合台幣93
乙式雷達聲磁製成費用	約合台幣10

領博規費與牌照料稅	8
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進口關稅與貨物稅 新台幣108
美國至台灣海運費用

ARTC測試車鑄費用 新台幣5萬元
美國當地出口稅費 新台幣3.6萬

台灣海關規費與報關費用

總計	約新台幣222.6萬元
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ERG-00010 09



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



Smart LED Lighting System



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.



低碳住行・轉動城市

GREEN LIVING & LOW-CARBON TRANSPORTATION

DELTA GREEN BUILDING EXHIBITION

高雄駁二藝術特區蓬萊B4倉庫

2017.10.01~30

09:00~18:00

展覽策劃：  DELTA 台達電子文教基金會

指定投影： 





Delta Tainan Plant I



EEWH Diamond



Energy Saving 35%



**Green Factory
Label for General
Industry**



Delta Tainan Plant II







NCKU Y.S. Sun Green Building Research Center



EEWH Diamond



LEED Platinum



**Energy Saving of
73% (EUI = 34)**



**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%**



**Commercial Building
with lowest emissions
In Taiwan**





Delta Americas HQs



**LEED
Platinum**



**UC Berkeley's
CBE: Livable
Buildings
Award**



Namasia Ming Chuan Elementary School

Net-Zero Green Building



EEWH Diamond



**Energy Saving
of 74%
(EUI<7)**



**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





Pioneer in Green Buildings

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



Tainan Plant 1
EEWH Diamond



Tainan Plant 2
EEWH Diamond



Taoyuan Technology Center
LEED Gold
EEWH Gold



Taoyuan Plant 5
LEED Gold
EEWH Gold



Taiwan HQs
LEED Platinum
EEWH-RN Diamond



Delta Ring of Celestial Bliss
1st carbon footprint audit project



Orchid House
2014 Solar Decathlon Europe
4 awards



Namasia Elementary School
EEWH Diamond



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



Americas HQs
LEED Platinum



EMEA HQs
BREEAM Very Good



Shanghai R&D Center
LEED Gold



Beijing Office LEED Silver



NCKU Delta Building
EEWH



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



NCU Kwoh-ting Optics and Photonics Building
EEWH Bronze



Taiwan NTHU Delta Hall
EEWH Bronze



Thailand Plant 5
LEED Gold



India Rudrapur Plant
LEED Gold



India Gurgaon Plant
LEED Platinum



India Mumbai Office
LEED Platinum



Delta Sunshine Elementary School, Sichuan, China
1st Prize, Delta Solar Building Design Competition



Delta Sunshine Junior High School, Sichuan, China
1st Prize, Delta Solar Building Design Competition



Low Carbon Residence, Wujiang, China
1st Prize, Delta Solar Building Design Competition
Certificate of Green Building Design Label



Low Energy Consumption Housing, Qinghai, China
Delta Solar Building Design Competition

台灣好水 美麗視界

Water with Life in 8K





Together, We can create a better tomorrow

Smarter. Greener. Together.



Smarter. Greener. Together.

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

