

# Next Generation EV Charging Infrastructure

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# From Private to Public Charging

## AC DESTINATION



**PRIVATE CHARGING EVENTS**  
**60%**

- Single House
- Apartment
- Multi-dwelling/ Workplace



4 – 8 hours

## DC DESTINATION



**CAR PARK & DESTINATION CHARGING EVENTS 15- 35%**

- Retail and Hospitality
- Business Workplace
- Fleet (Business, Logistics)



1 – 4 hours

## DC HIGH POWER

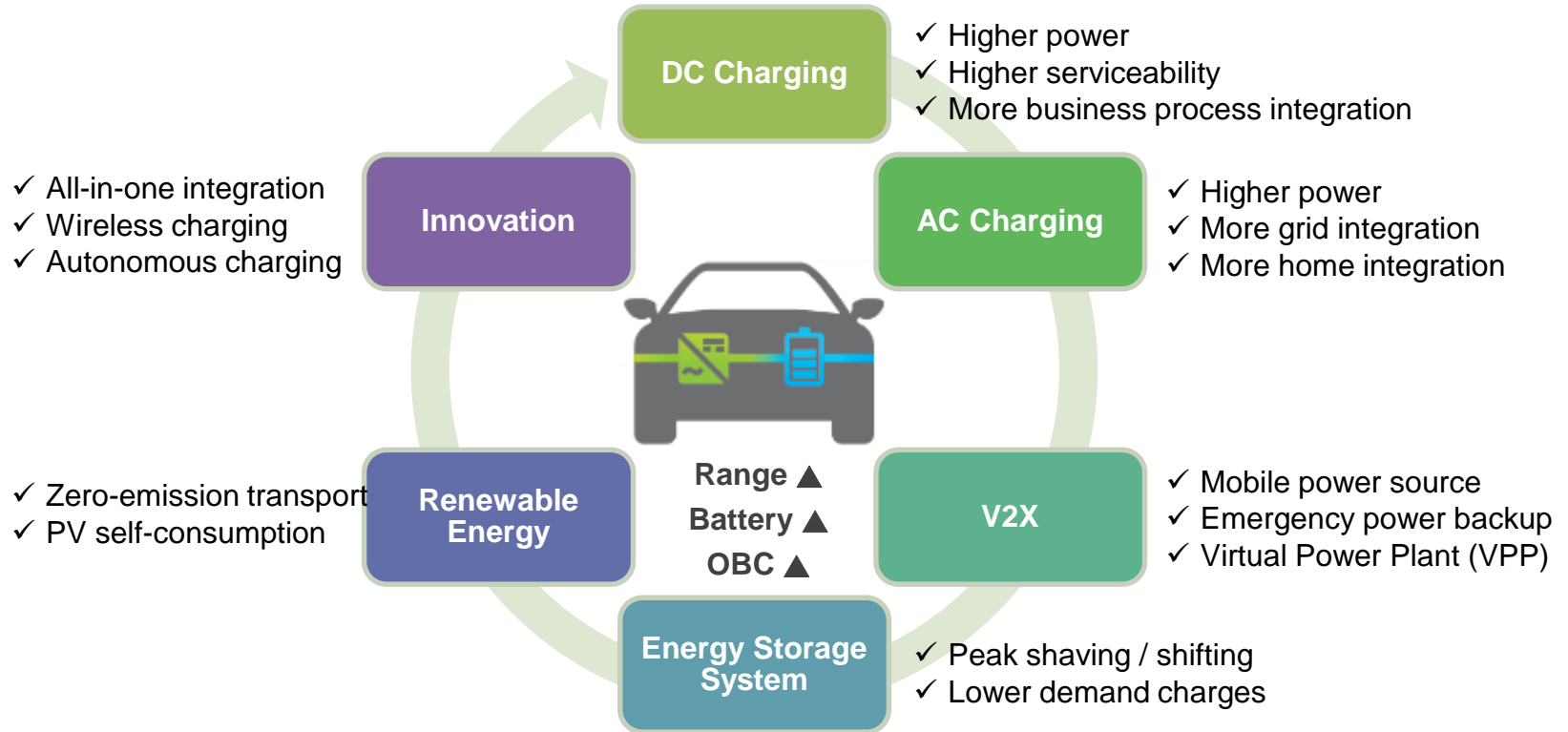


**HIGHWAY CHARGING EVENTS**  
**5%**

- Parking Lot
- Service Station
- Intercity Charging Network



10 – 30 min



**Tailoring the most suitable solution according to the actual needs of the site conditions, scale, and service level.**



## Renewable Energy

- Provide Clean energy
- Integrate with energy storage & energy management system to build a microgrid



## Energy Management

- Manage Multiple Energy Sources
- Optimize Energy Consumption



## Energy Storage

- Enhance renewable energy power quality
- Backup power
- Bi-directional; Demand-response enabled



## EV Charging

- Supply electricity to EVs
- Backup power for buildings
- Bi-directional; Demand-response enabled

# Make Charging More Scalable



PV Inverter



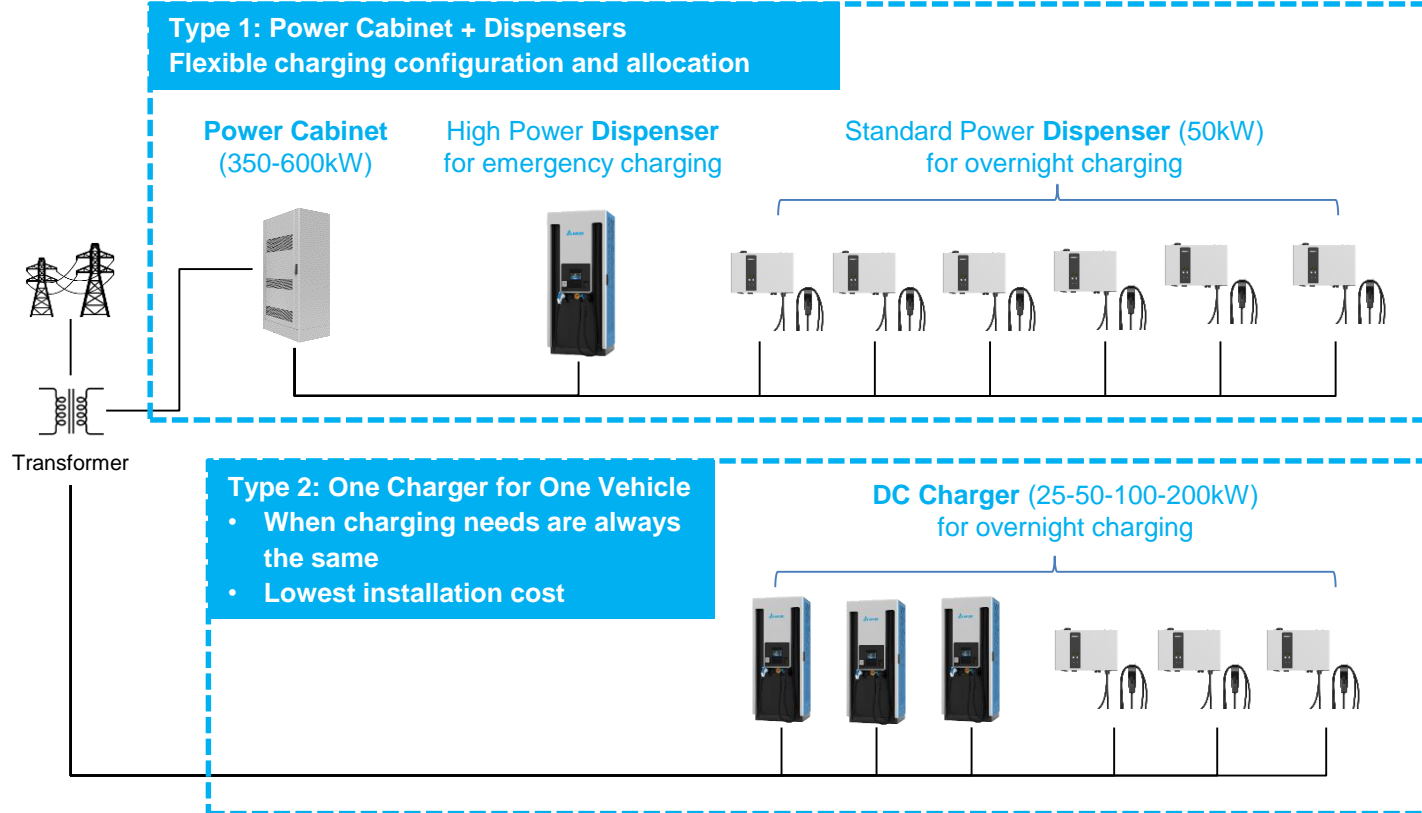
Energy Storage



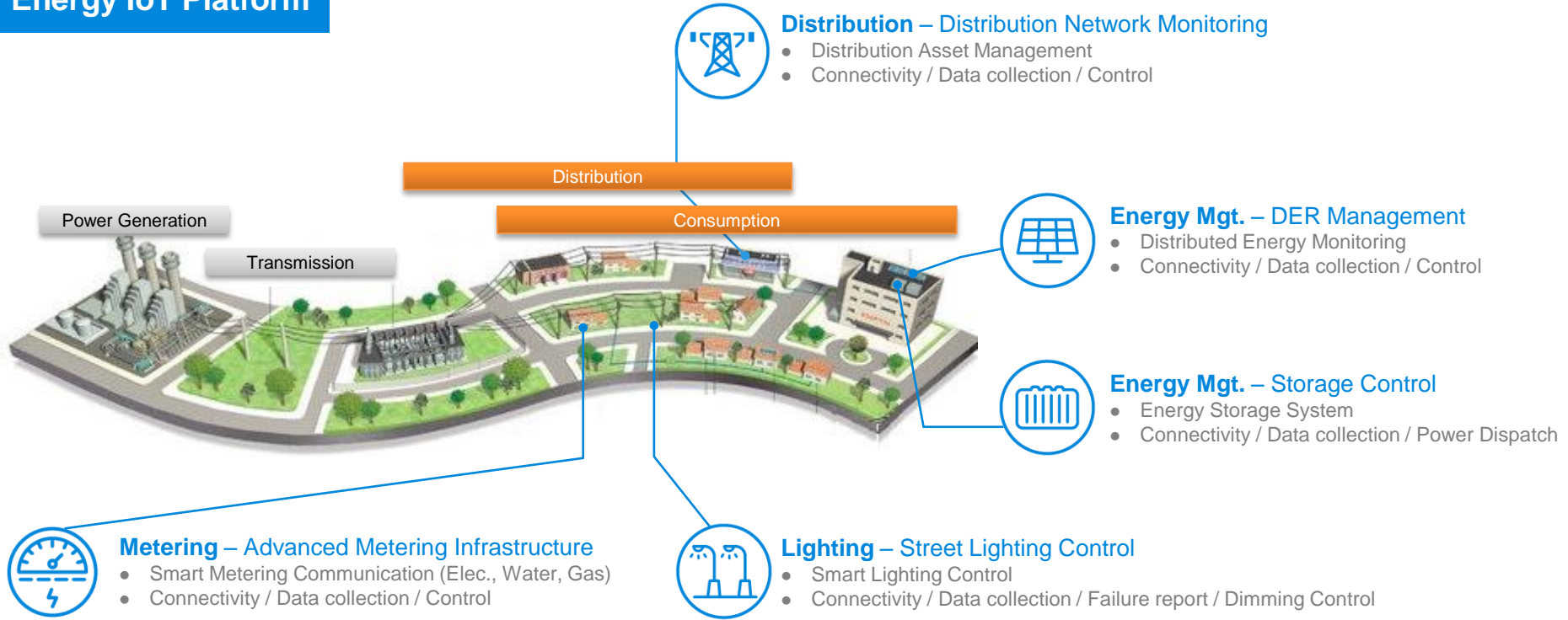
Power Conditioning System



Site Management /  
Energy Management



## Energy IoT Platform







# Delta Solution Overview

Established 1971.

MEMBER OF  
**Dow Jones  
Sustainability Indices**  
  
In collaboration with a RobecoSAM brand

2011-2019 DJSI - World Index  
2012, 2015, 2018, 2019 Industry Leader



2014-2015  
Climate Disclosure Leadership Index  
2016-2017  
Climate Change Leadership Level



**EV Charging**



**Renewable Energy**



**Datacenter**



**Telecom Energy**



**Industrial Automation**



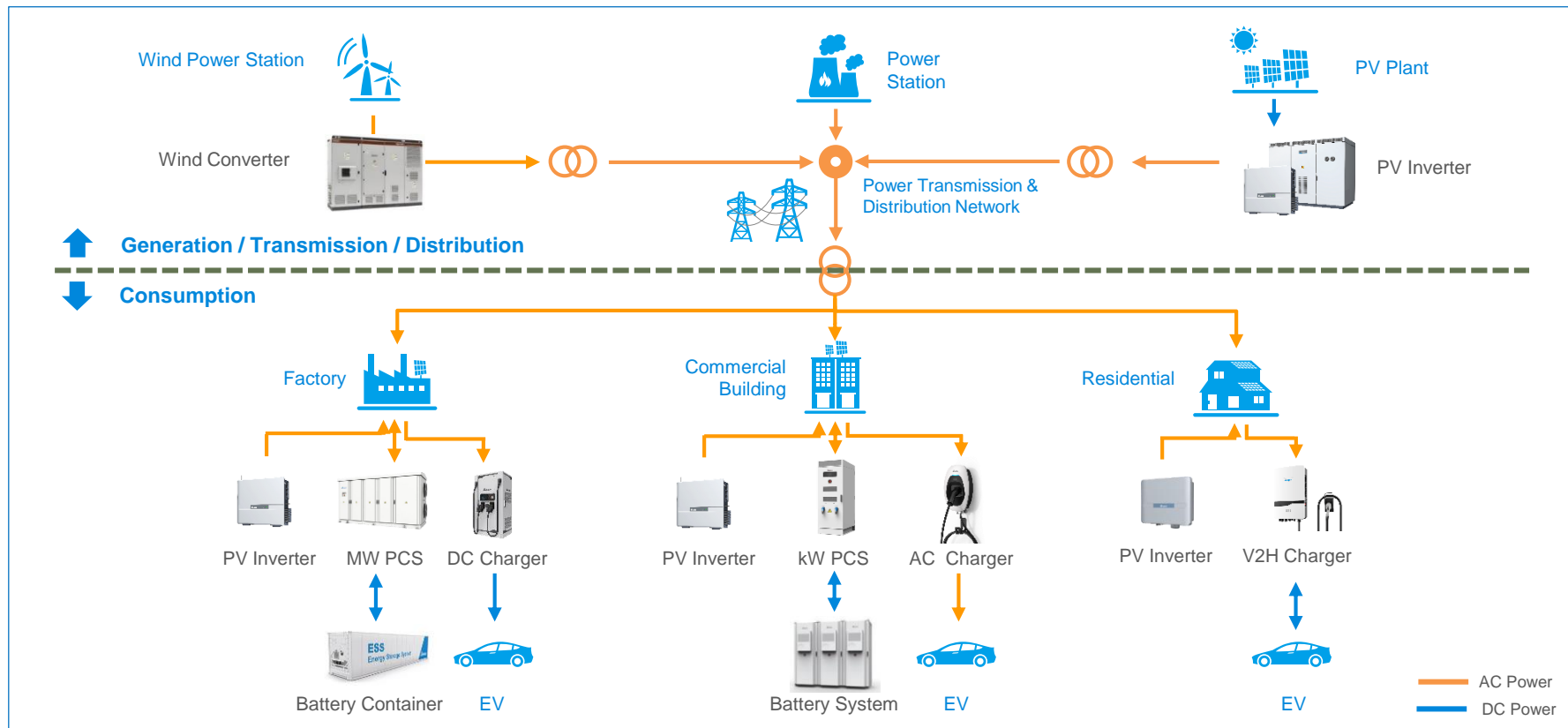
**Building Automation**



**Display and  
Monitoring**



# Delta Energy Infrastructure Solution





# Success Cases



Car dealers, Sweden



Commercial application,  
Netherlands



CPO, Germany



CPO, Slovakia



CPO, Norway



CPO, Norway

# Polish Customer References

Tauron (utility company)

Orlen (petrol company)

PGE Bełchatów (Coal power plant)

Q22 (Skyscraper in Warsaw)

Audi and VW dealers

Mercedes headquarter

Volkswagen Group Poland (headquarter)

Ministry of Climate

EV cars dealers (VW group)

Greenway (EV Charging Solution Provider)



# Sustainable Innovation Forum 2018 in Poland



**Delta shares its experience in enabling low-carbon transportation at the Sustainable Innovation Forum 2018 - affiliated event of COP24**

*Michal Kurtyka (center), president of COP24, greeted Mr. Victor Cheng (left), senior vice-president and ICTBG's GM, and Ms. Shan-Shan Guo, the executive director of the Delta Electronics Foundation, at the Sustainable Innovation Forum.*



