

# Green Island solution powered by BYD



*Build Your Dreams*

Edison YIN

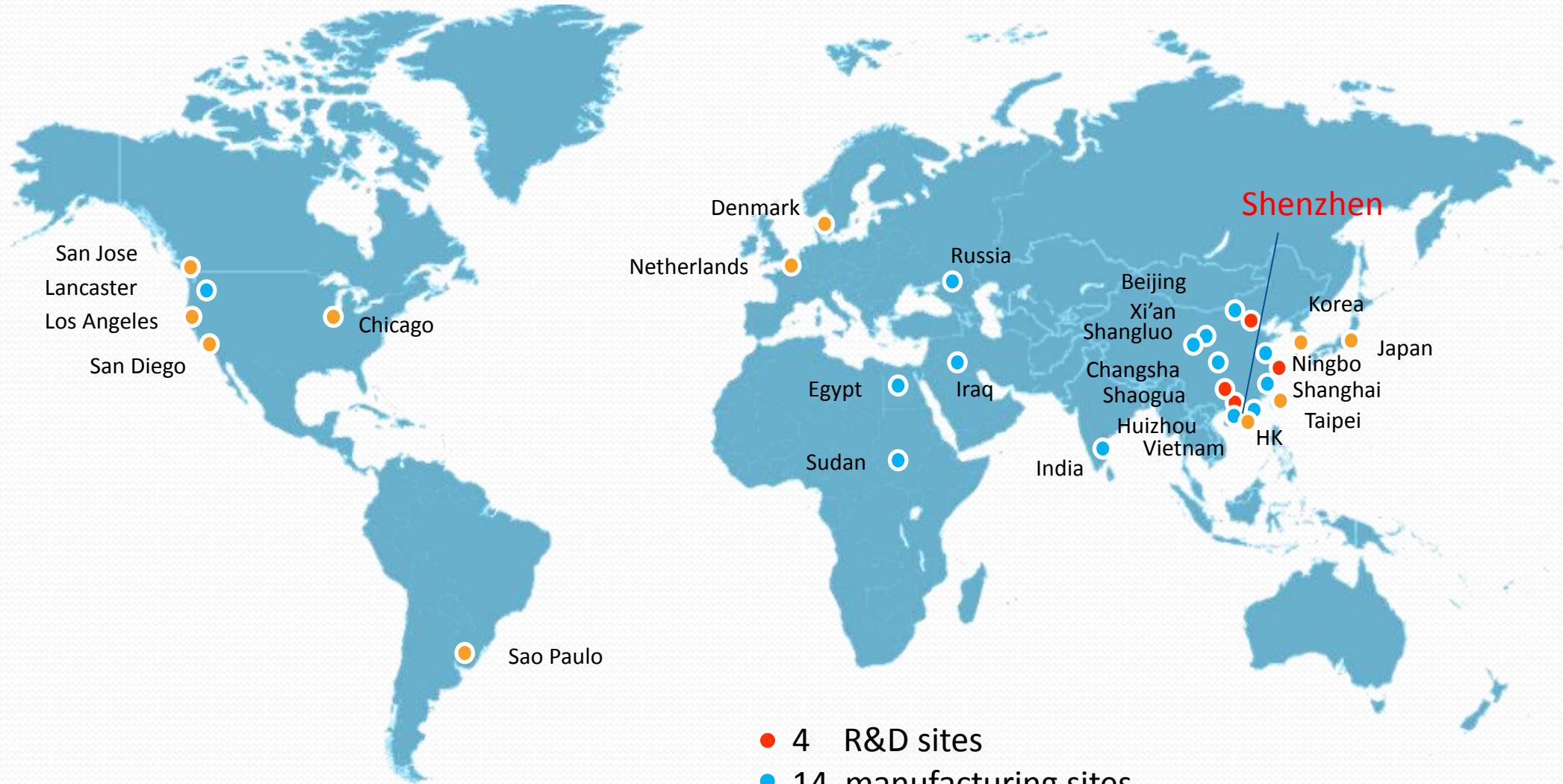
Cyprus

29 May, 2014

**BYD** is a leading-edge provider of Green Energy Technologies that specializing in the IT, automotive, and new energy businesses. Being a specialist in battery technologies, BYD's green mission has made BYD an industry pioneer and leader in High-efficiency Automobiles, Electrification of Public Transportation, Environmental-Friendly Energy Storage, Affordable Solar Power and Information Technology and other ODM services.



# BYD Worldwide



- 4 R&D sites
- 14 manufacturing sites
- 11 sales & service sites

# BYD Electric Bus and Taxi



**BYD ebus**



**BYD e6**

# BYD Electric Vehicles Highlights



**0** emissions

**Reliable  
battery**

**70%**  
operating  
cost reduction

BYD ebus  
**250km range**

BYD e6  
**300km range**

# BYD powered Electric vehicle application on islands





# Fact sheet of Schiermonnikoog



- National park of Netherlands
- 16 kilometers (9.9 mi) long and 4 kilometers (2.5 mi) wide
- Under 1,000 residents
- Up to 300,000 visitors per year, mostly during the summer holidays
- Well-known in Netherlands and unfamiliar for foreigners
- Main source of income is tourism
- The local government issued first European public tender only for electric buses



# BYD electric bus fleet on Schimmonnikoog



## Benefits of the electric bus fleet

- Zero emission and noise reduction
- Cost saving for operation
- New attraction point for tourism
- More media exposure
- Diversity of the visitors

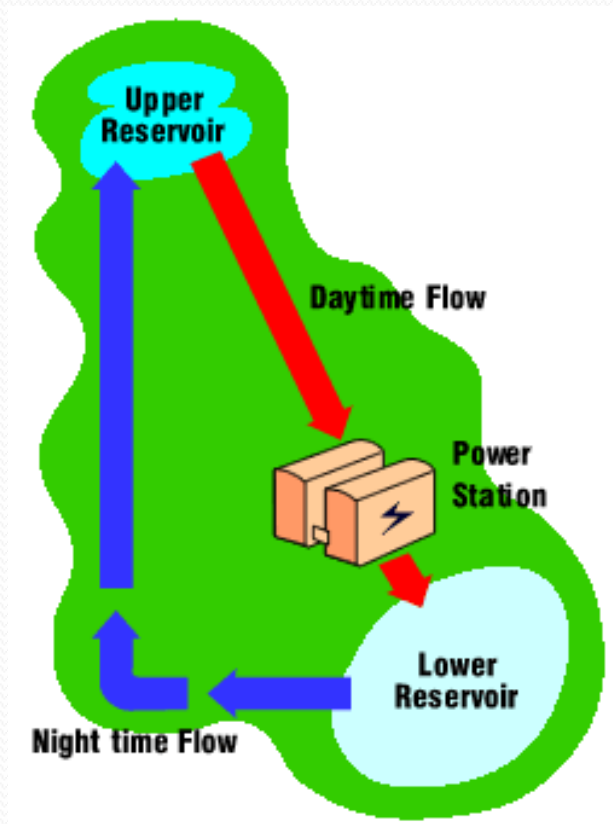




# Motivation of electrify the bus fleet in Aruba



- Environmental friendly solution for bus fleet
- Balancing the peak and trough of the electricity consumption



# BYD test project in Aruba



## Benefits of the electric bus fleet

- Zero emission and noise reduction
- Cost saving for operation
- Cost saving for peak-trough balance
- More media exposure

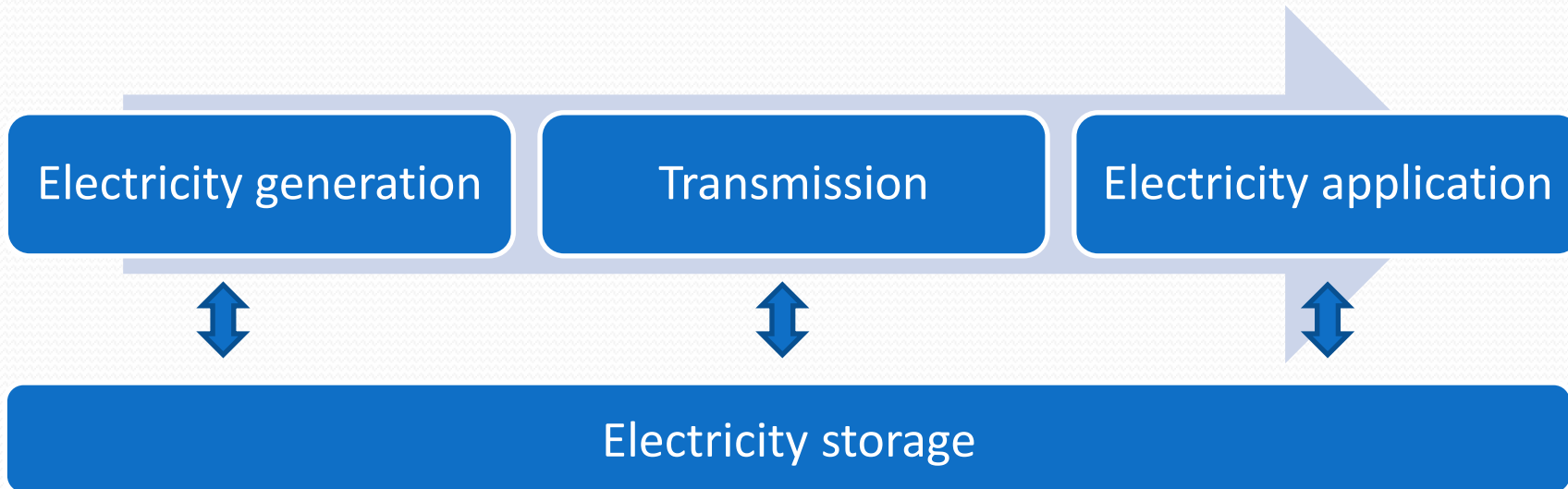
	City Bus	Electric Bus
<b>Economic Benefits</b>		
Daily Travel Distance	250 km	250 km
Daily Fuel Consumption	144 L	/
Fuel Price	€ 1.61/ L	/
kWh Consumed	/	320 kWh
Electricity Price	/	€ 0.32/kWh
Daily Cost	€ 231.84	€ 102.4
<b>Environmental Benefits</b>		
Equivalent CO2 Emissions	322 kg	0 kg
CO2 Avoidance	/	322 kg



# BYD-powered green island solution



# Electricity dependency?





# BYD solar panels for electricity generation



Average cell efficiency up to 17.8%



Highest power out-put for 60 cells Multicrystal Module





# BYD energy storage system



50kW/60kWh



## ESS Application Fields

- Wind power plant
- Photovoltaic power station
- Large-sized load center(factory, commercial center etc)
- Emergency power supply occasion
- Areas of limited situations of environment and field(airport, isolated island etc)
- "Black start" of grid
- Grid frequency modulation

## Features of BYD ESS

- Peak shaving & load leveling
- Make compensation for PV/wind generating, and smoothen the power output
- Minimize wire loss, increase the lifespan of wires and electric apparatus
- Act according to requirement of urban grid alteration, ensure safety of the grid
- Optimize the overall arrangement of system, stabilize output of the grid, and ameliorate the energy quality
- Use for urgency transient active power response and/or voltage supporting

250kW/250kWh(20#container)



500kW/500kWh(40#container)



# BYD LED for lightning



- Energy saving
- Long life cycle
- Zero UV emission
- Various application



# BYD electric vehicle for mobility





# BYD advanced charging technology



AC charger



Bi-directional charging



# BYD powered electric vehicles



# Enormous empirical data guarantees the reliability



Till the end of March 2014



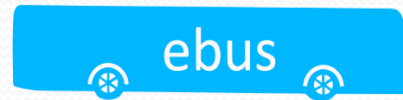
Single e6 taxi maximum

490,000 km



800 e6 taxies

173,000,000 km



Single ebus maximum

185,000 km



300 e buses

26,000,000 km

There are **6,250** buses order in 2014 and more than **10,000** in 2015 for Chinese market

# Proven technology all around world





# BYD e6 in Europe



Private hire chauffeur operator Thriev has launched a fleet of **20** zero-emission, fully-electric BYD e6 cars in **London** in February, 2014. With plans to increase to up to 200 units by year end.

# BYD ebus in Europe



*April, 2013*



## **Schiermonnikoog, the Netherlands**

Europe's 1st publically tendered order for full electric-powered full size buses

*July, 2013*



## **Amsterdam Airport Schiphol**

Schiphol contract: 35 pure electric buses for airside services shuttling passengers

*August, 2013*



## **Tel Aviv, Israel**

BYD ebus is operating on Line 5 in the city of Tel Aviv

*Oct., 2013*



## **Milan, Italy**

Two e buses have been delivered to bus operator in the city-ATM



# BYD ebus in Europe



*Nov., 2013*



## **Copenhagen, Denmark**

BYD ebus will enter into a two-year service with each of the two major bus operators in the city – City Traffic and Arriva.

*Nov., 2013*



## **Barcelona, Spain**

BYD ebus has been delivered to bus operator in the city -TMB

*Dec., 2013*



## **London, UK**

Two BYD e buses have been delivered to bus operator in London – Go-Ahead

# Core competitiveness of BYD electric vehicles



## Highlights of the BYD power battery

Lithium phosphate iron battery

- High safety performance
- Long life cycle
- Environmentally friendly



ISO14001



ISO9001



QS9000





**BYD to build your dreams!**



**Thanks!**

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