



# Jinko Energy Storage Solutions for C&I

Mohammed Saady Dweik

Technical Services Manager -MENA



- **ABOUT JinKO Solar**
- **Energy Storage Market Overview**
- **JinKO Storage Solutions for C&I**





# ABOUT JINKO SOLAR







**1# Shipment  
2016-2019**

**Delivered  
70GW**

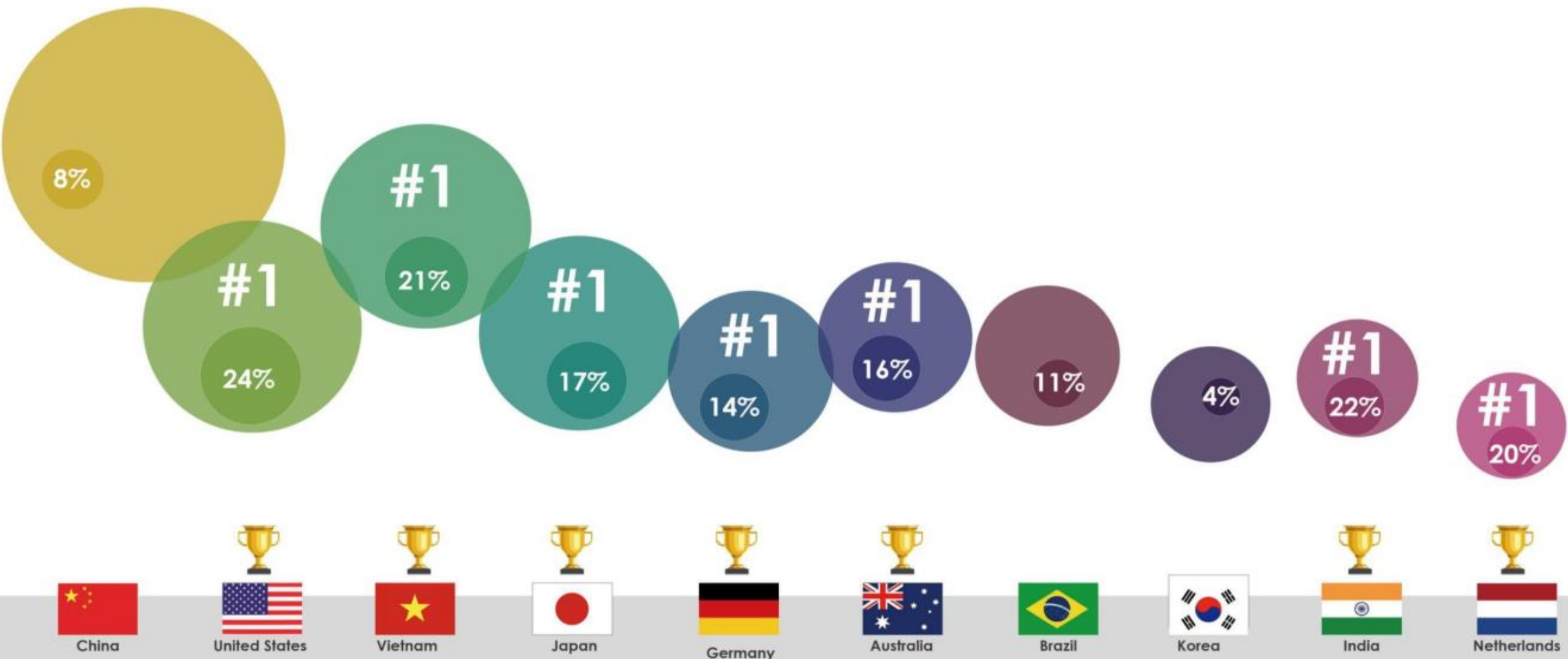
**Market Share  
12.6%**

**Cell  
Efficiency  
Record  
24.79%**

**Module  
capacity  
30GW**

**11 Global Factories | 30+ Service Centers**  
**100+ Covered Countries | 8000+ Annual Orders**

# PV Market Leader

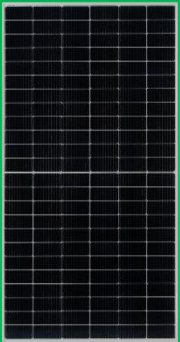


# PV Modules



## Tiger Pro Mono-facial

- Up to 410 Wp
- 66 cells
- 163 mm wafer
- Efficiency up to 21.48%
- 25 Year Linear Power Warranty



**Tiger  
Series**

## Tiger Mono-facial

- Up to 475 Wp
- 78 cells
- 163 mm wafer
- Efficiency up to 21.16%
- 25 Year Linear Power Warranty



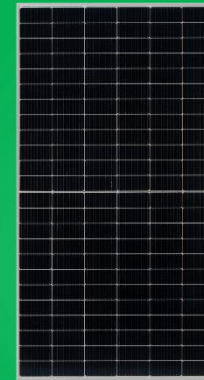
## Tiger Pro Mono-facial

- Up to 415 Wp
- 54 cells
- 182 mm wafer
- Efficiency 21.30%
- 25 Year Linear Power Warranty



## Tiger Pro Mono-facial

- Up to 550 Wp
- 72 cells
- 182 mm wafer
- Efficiency 21.33%
- 25 Year Linear Power Warranty



**Tiger Pro  
Series**

## Tiger Pro Bifacial

- Up to 545 Wp
- 72 cells
- 182 mm wafer
- Efficiency 21.13%
- Dual Glass or TB
- 30 Year Linear Power Warranty



# BiPV Modules



Classic Black BiPV

**535-550 Wp**



Ocean Blue BiPV

**370-390 Wp**



Forest Green BiPV

**400-420 Wp**



Strawberry Red BiPV

**250-280 Wp**



Mid-Summer Purple BiPV

**350-370 Wp**



# Our Solutions - Energy Storage Products



**Residential Storage System**  
(1kWh-50kWh)

**C&I Storage System**  
(50kWh-1MWh)



**Utility Storage System**  
(≥1MWh)





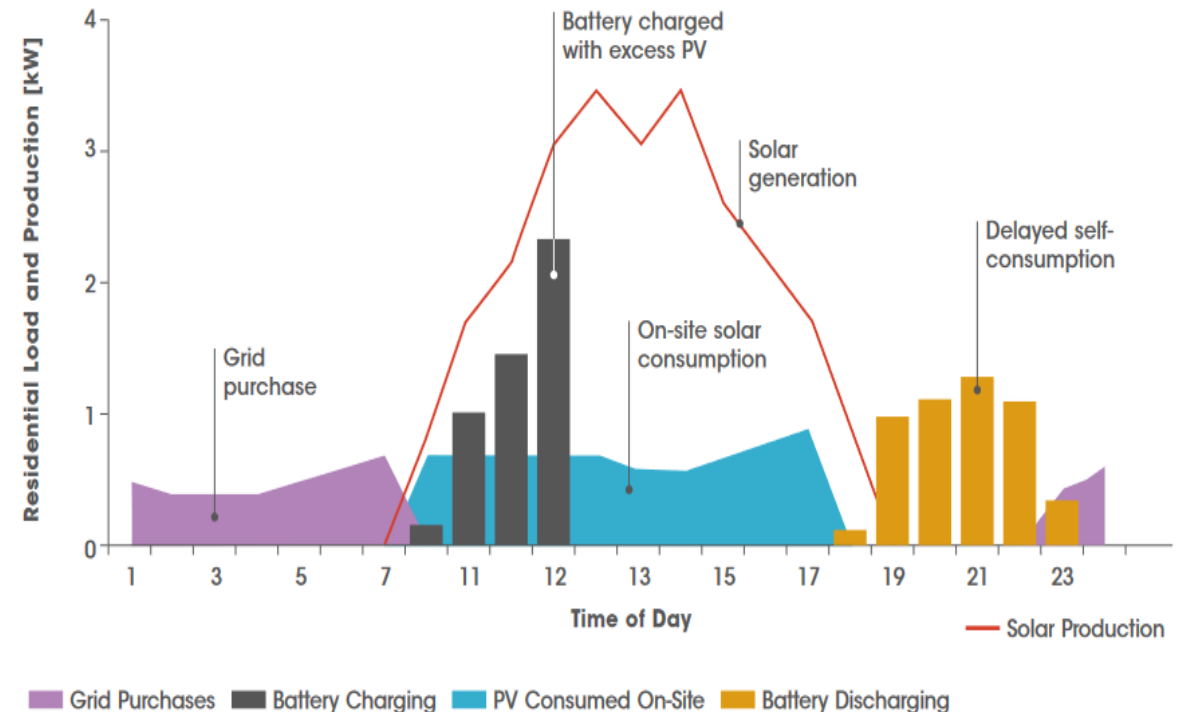
# Energy Storage Market Overview



# PV + ESS

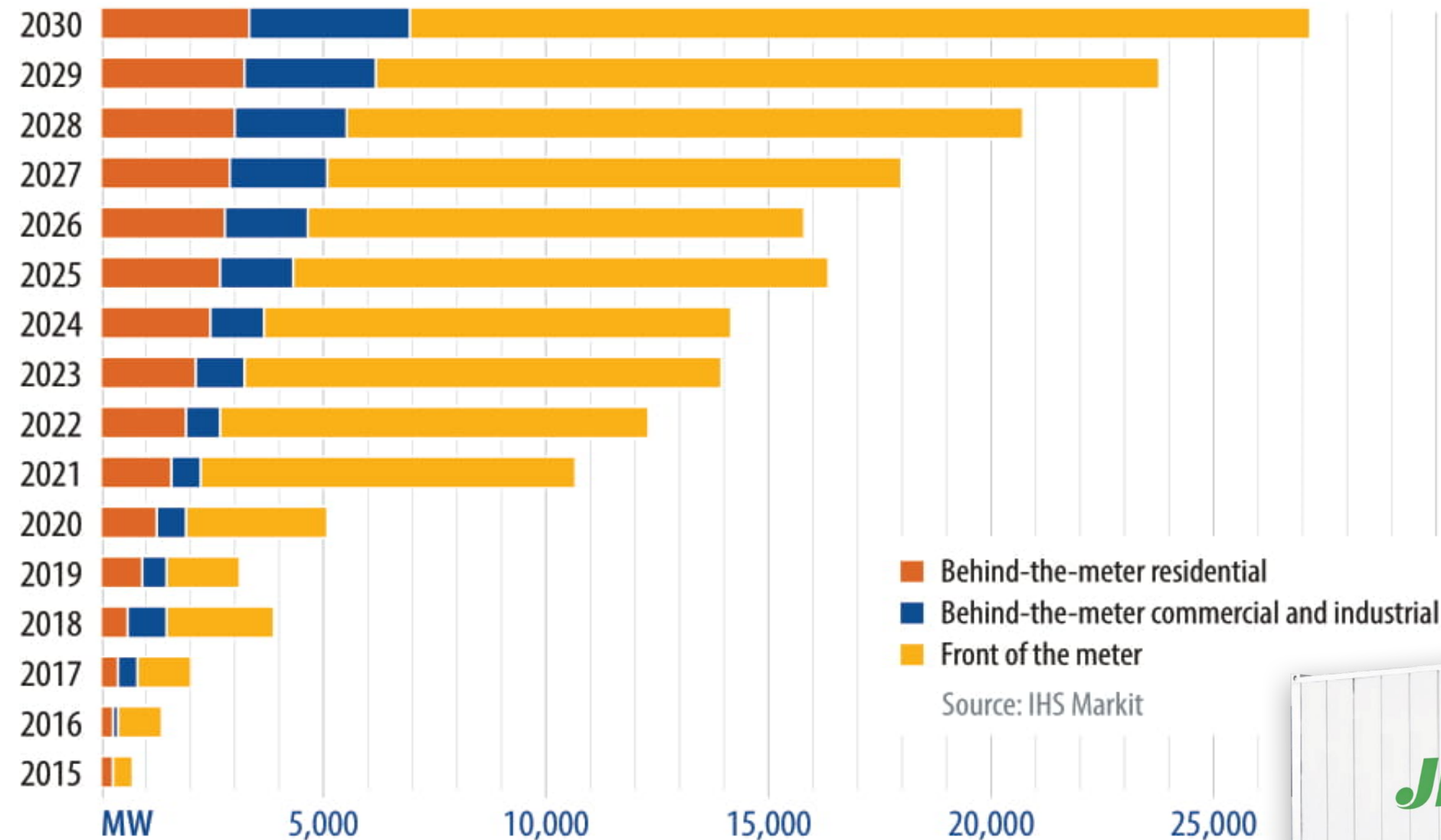
Combining energy storage with solar PV is considered a practical development for implementing RE technologies in C&I sector due to:

- Can provide more reliable and stable system where the ESS can provide electricity during the day.
- Shared infrastructure (e.g., inverters, interconnection)
- Reducing the need to reduce energy consumption during peak hours.
- Easy to integrate.

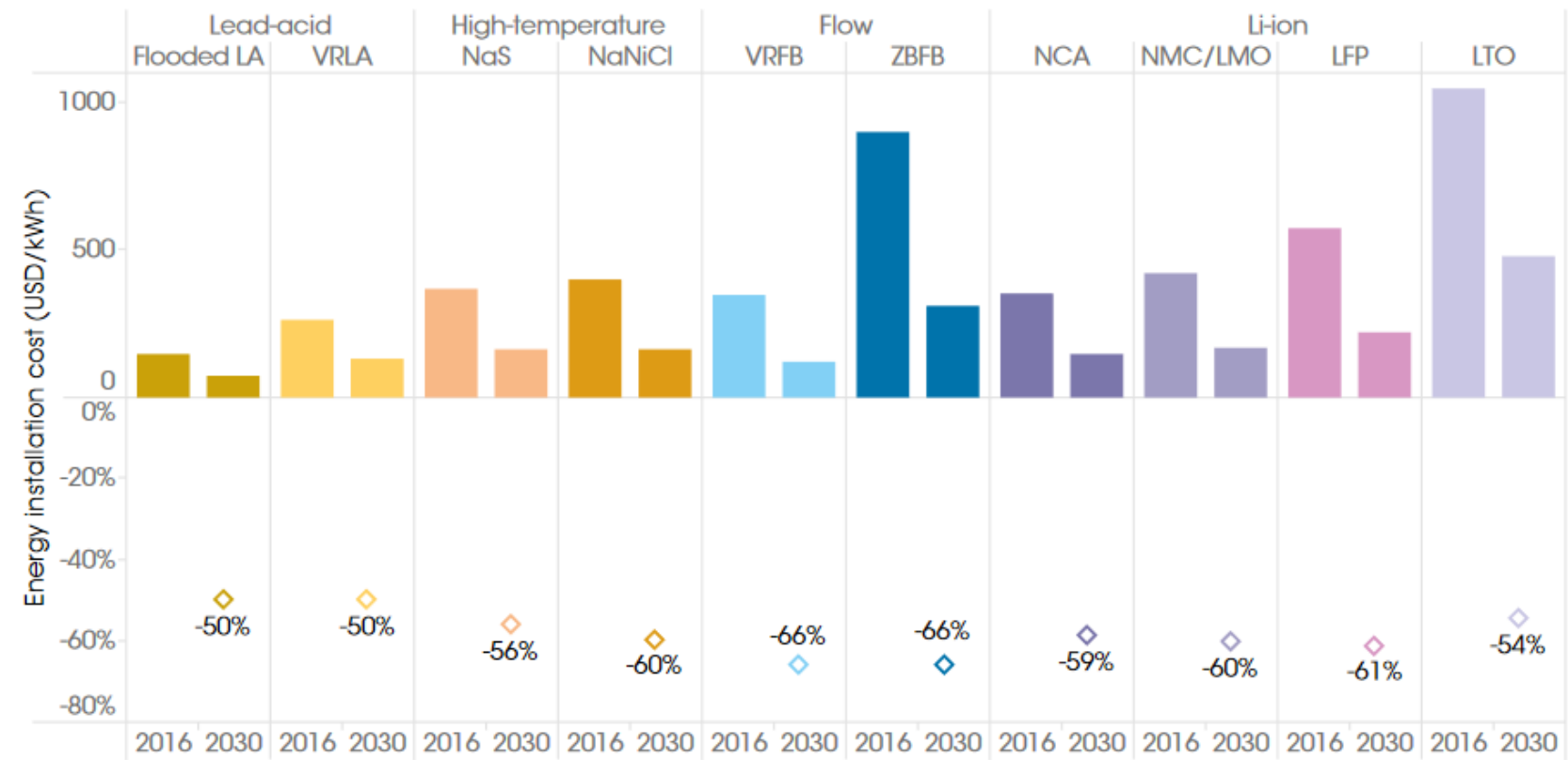
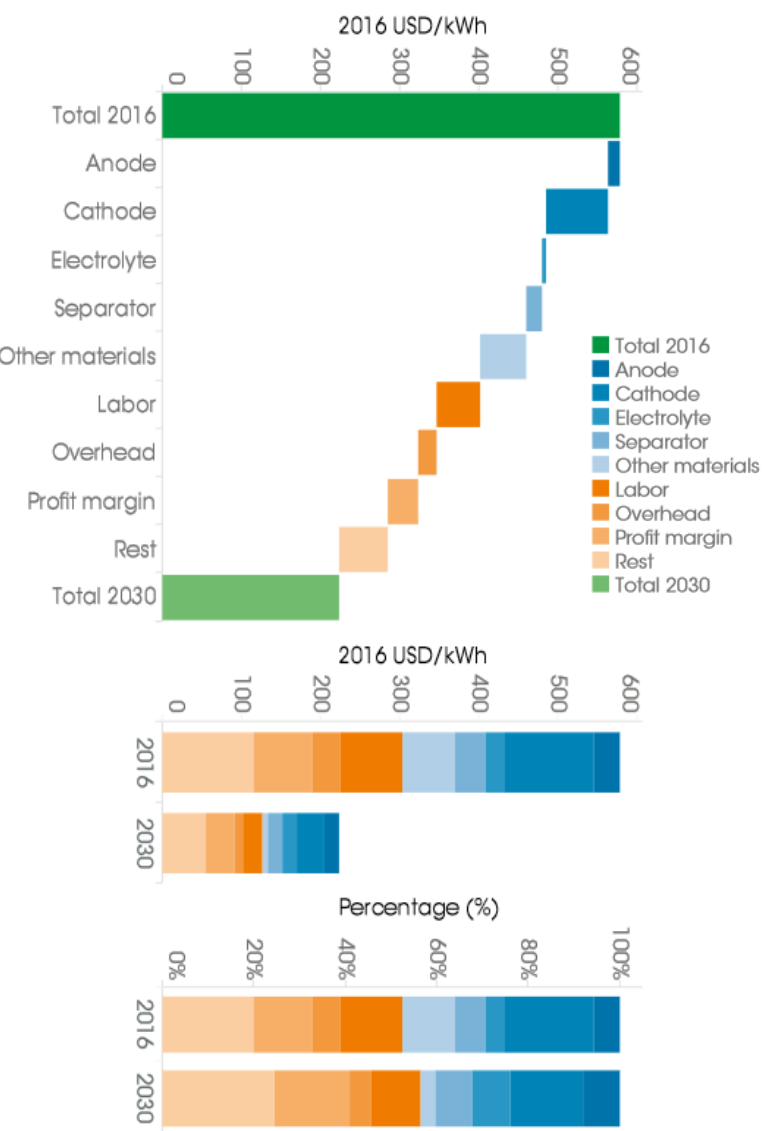


Source: Fitzgerald et al., 2015.

# Global Market Growth



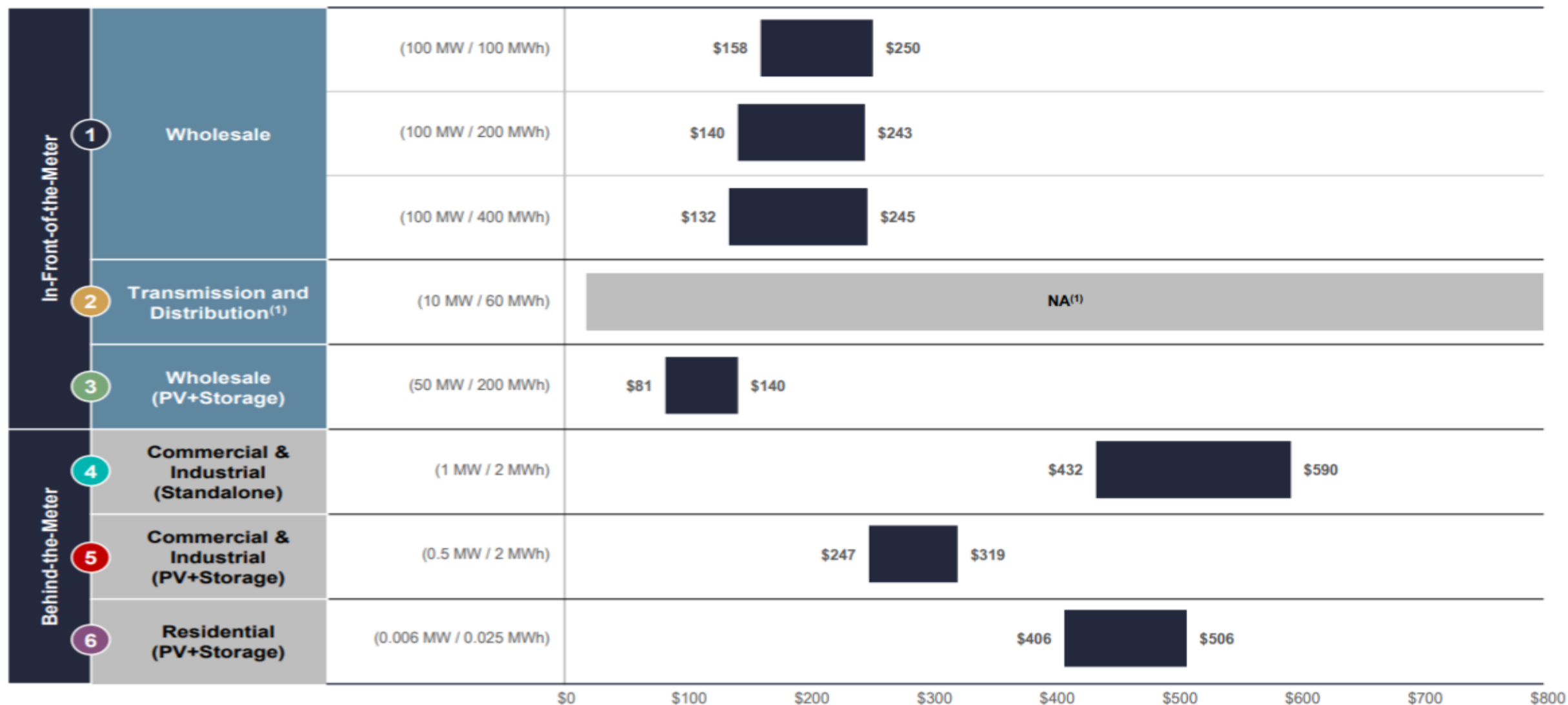
# ESS Costs Reduction



Source: IRENA



# LCOS

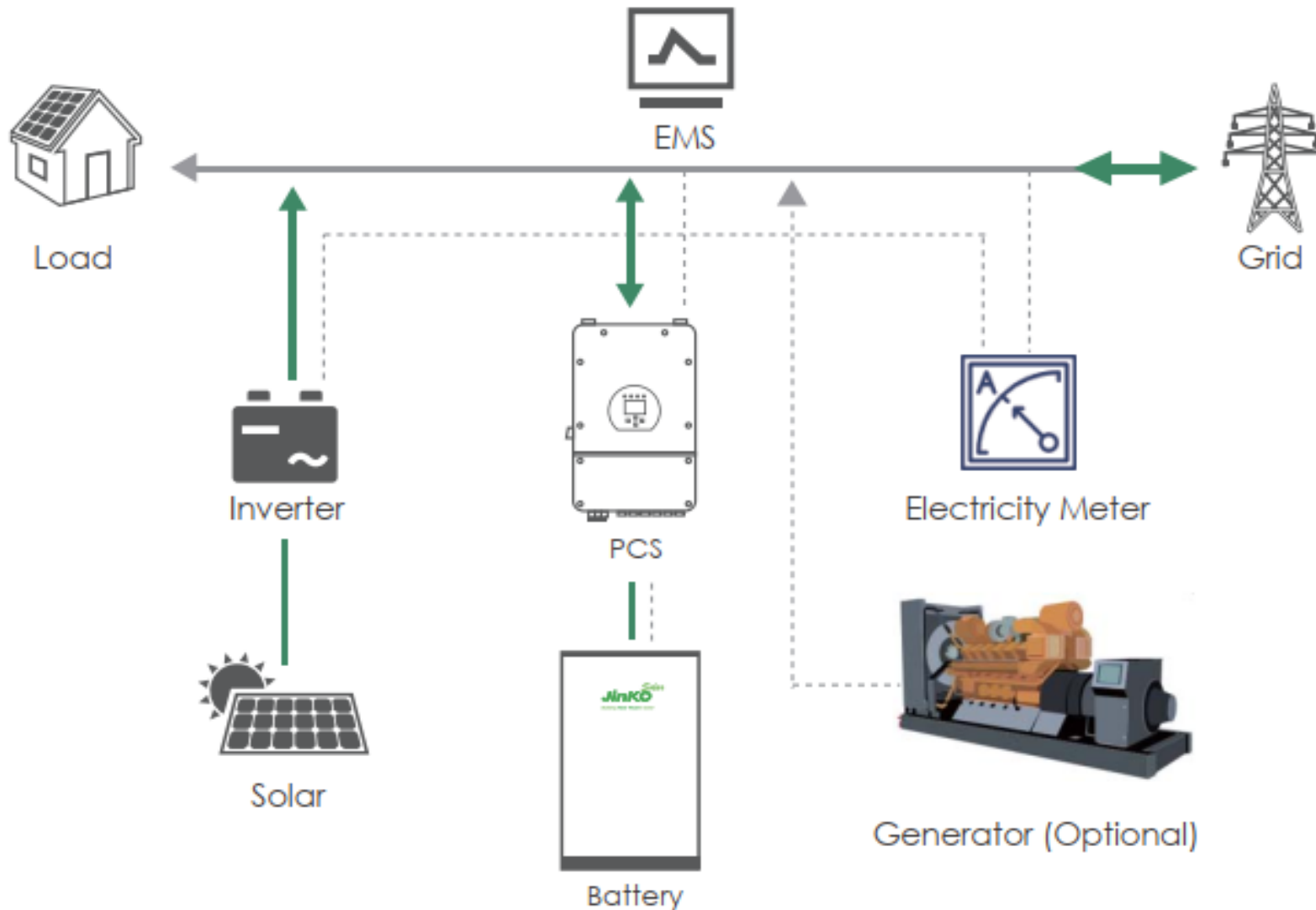




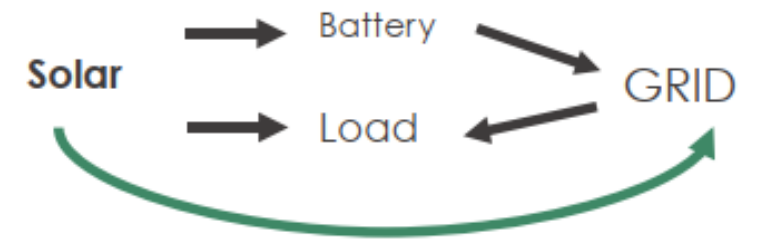
# JinKO ESS for C&I



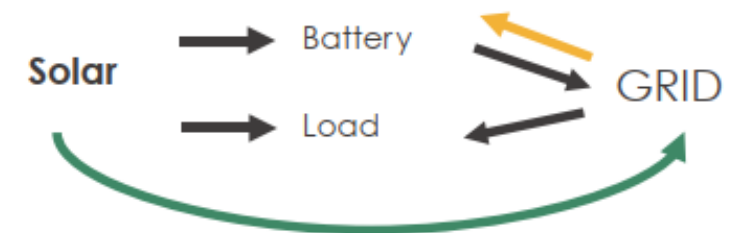
# C&I Solutions



## Self consumption



## Back-Up mode



# C&I Solutions

*Solar*  
**JinKO**



**30KW/64kWh**  
**30KW/128kWh**



**50KW/64kWh**  
**50KW/128kWh**  
**50KW/192kWh**



**100KW/182kWh**  
**100KW/192kWh**  
**100KW/256kWh**  
**100KW/384kWh**



**250KW/276kWh**

**250KW/552kWh**



**500KW/552kWh**

**500KW/1108kWh**

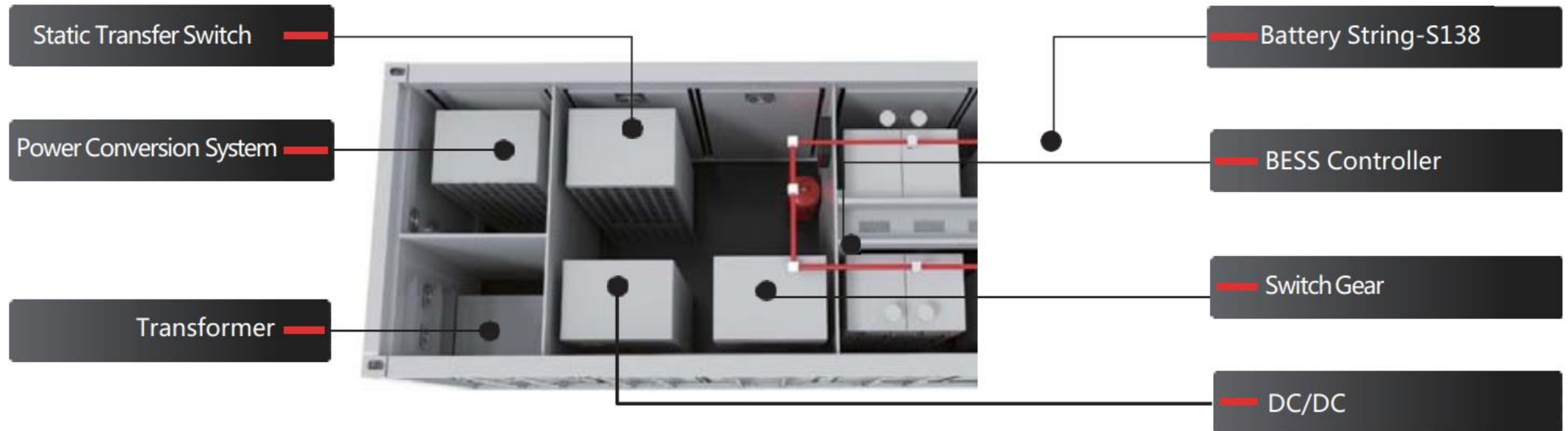
# C&I Solutions



- ✓ Hybrid 30kW/50kW PCS with 250V~520V DC voltage
- ✓ Weight of the whole system: 4T/6T
- ✓ Dimensions: 1,850x1,300x2,591 mm (6' enclosure)



- ✓ Hybrid 100kW PCS with 250V~520V DC voltage
- ✓ Weight of the whole system: 10T
- ✓ Dimensions: 2,991x2,438x2,591 mm (10' container)



- ✓ Hybrid 250kW/500kW PCS with 500V~850V/600V~900V DC voltage
- ✓ Weight of the whole system: 15T/20T
- ✓ Dimensions: 6,058x2,438x2,591 mm (20' container)





LiFoPO4 battery with high energy density and more than 6000 cycles



Small footprint, easy installation and maintenance



Advance management system



High charge/discharge efficiency



Modular design, flexible configuration easy to scale up



Smart building



Emergency backup power



Microgrid applications



Smart community

# Thank You!



Building Your Trust in Solar

**Mohammed Saady Dweik**

Technical Services Manager

[Mohamed.saady@jinkosolar.com](mailto:Mohamed.saady@jinkosolar.com)