

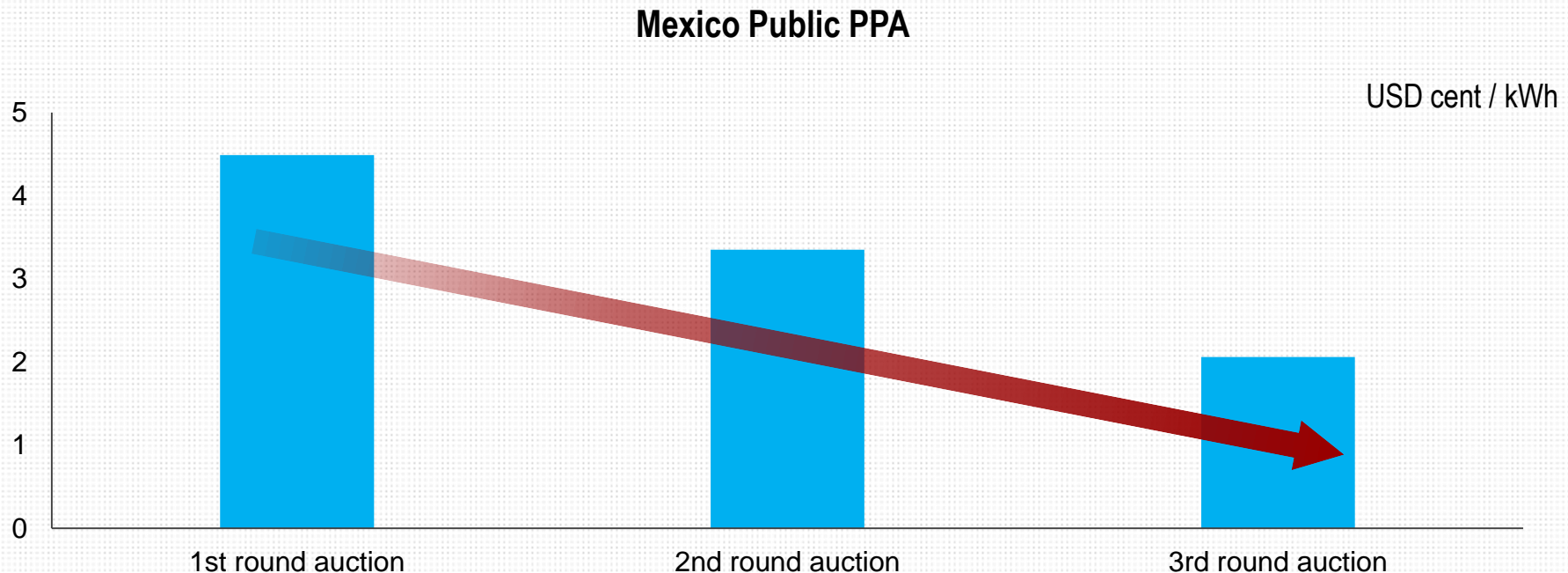


A Creative Glance at the Solar PV Investment Challenges

FusionSolar®

Lower Electricity Price Pushes Investors to Seek Innovative Solutions With Lower LCOE

$$\text{LCOE} = \frac{\text{CAPEX} \downarrow + \text{OPEX} \downarrow - \text{System Residuals}}{\text{Lifetime (25y)} \times \text{Accumulated Power Generation} \uparrow}$$



Common Issues with Conventional PV Solutions

Low Reliability & High Power Loss

- High failure rate due to vulnerable parts.
- Higher mismatch losses due to one or two MPP trackers.



Low Yields & High CAPEX

- Forced cooling required.
- Ventilation equipment consumes electricity.
- Low environmental adaptability.
- High Foundation and transportation costs.

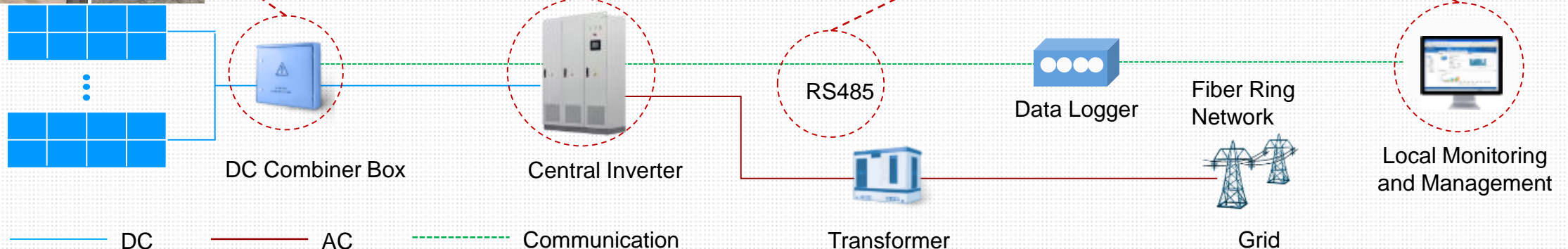


Inefficient O&M & High OPEX

- Extra cabling time and costs.
- Need a long time to locate and repair communication faults.



- No centralized management of plants.
- Lack of string-level monitoring & management.



FusionSolar Smart PV Solution: A Simple, Fully Digital Solution with Automatic O&M

Simple

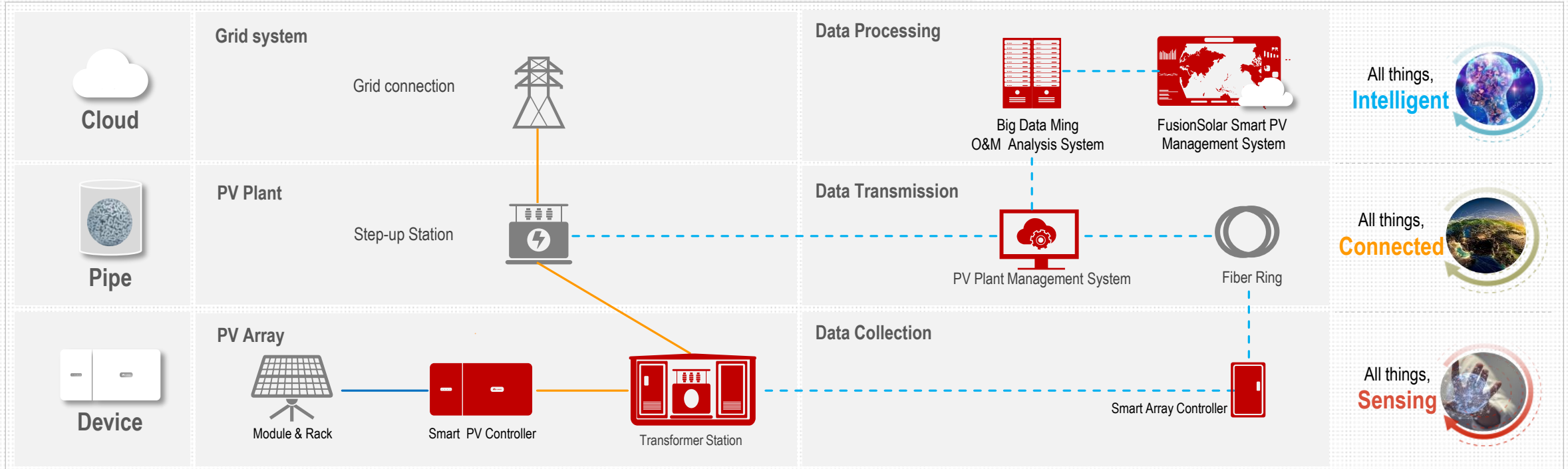
- No DC Combiner, Short DC Path
- DC Fuse Free, No vulnerable Parts
- IP65, Natural Cooling

Digital

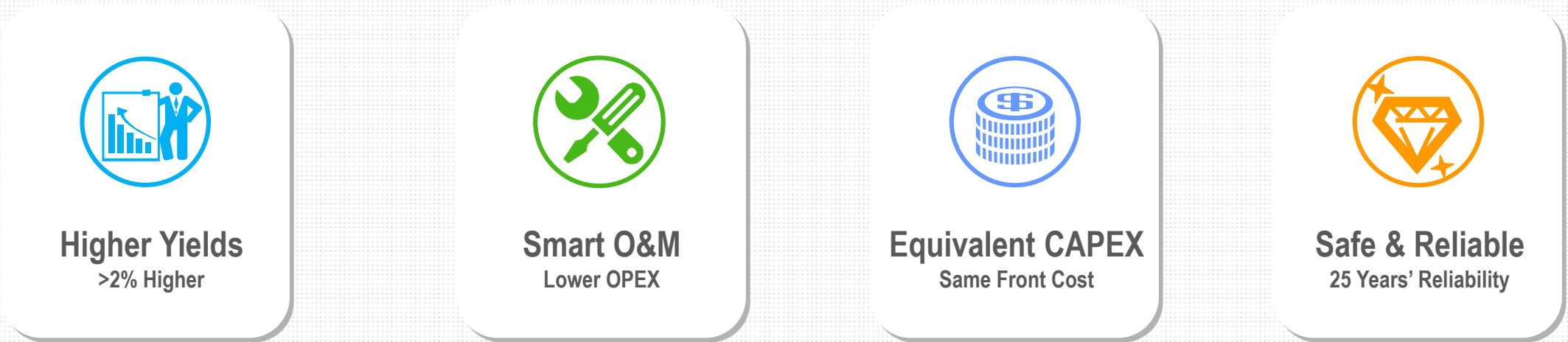
- String-level Data Collection
- 0.5% High Accuracy Sensoring
- Power Line Communication

Auto O&M

- 0-touch Maintenance
- Auto Fault Locating & Fault Analysis
- Real-time Monitoring, Centralized Management



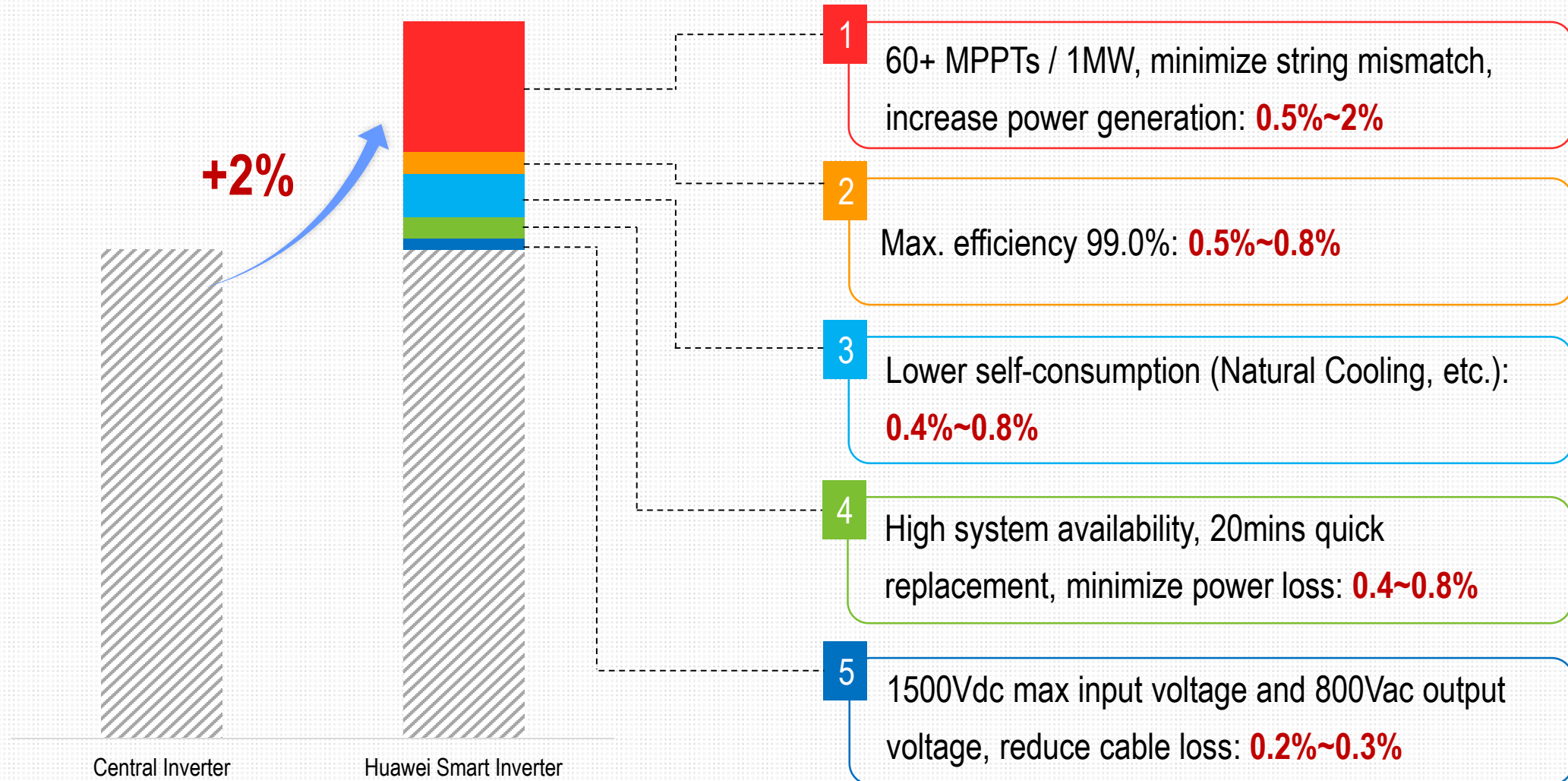
FusionSolar, Enabling a Lower LCOE for 25-year Lifespan



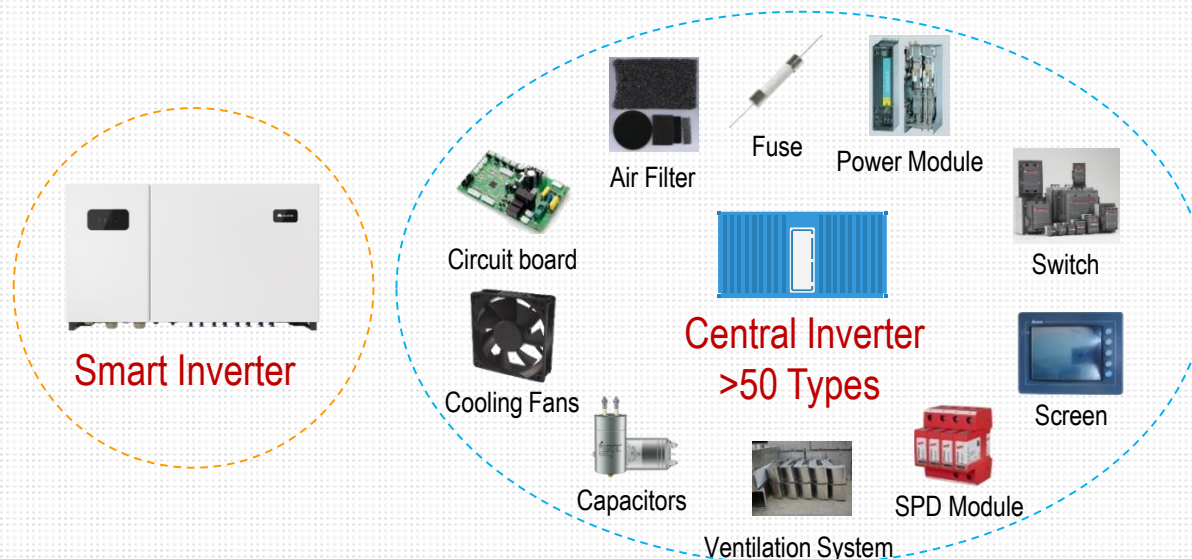
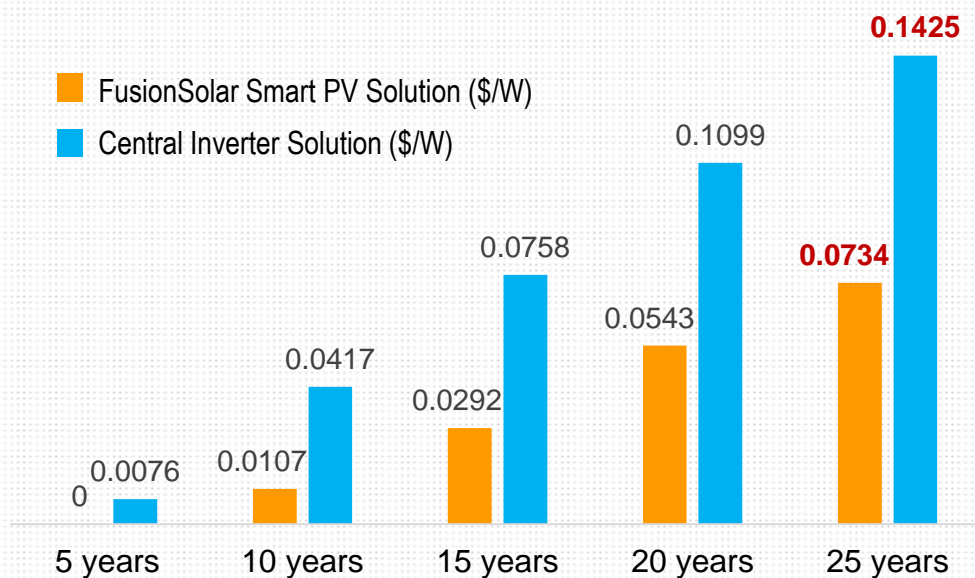
LCOE ↓ = $\frac{\text{CAPEX} + \text{OPEX}}{\text{Sum of Yields}}$ ↑

LEVELIZED COST OF ELECTRICITY

FusionSolar Increases Power Generation by over 2%

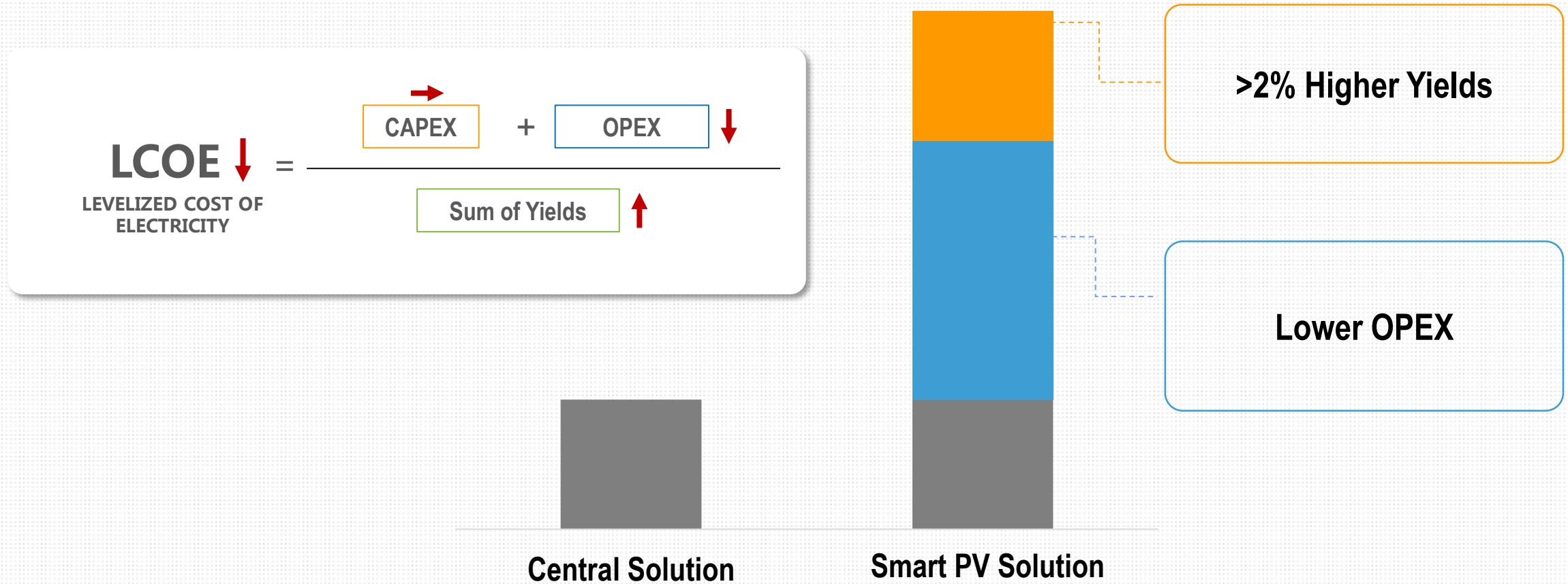


Smart O&M, OPEX Saving \$6.9m in 25 years/100MW



	FusionSolar Smart PV Solution	Central Inverter Solution
Maintenance	None	Necessary for vulnerable components
Spare parts guarantee	Included in 10/15/20 years warranty extension. 2 BD Guaranteed, easy to replace	Much more complex
Diagnosis and repair		Professional expertise, no guarantee of resolution time
OPEX Savings: \$6.9 cents/W		

FusionSolar Smart PV Solution, Lower LCOE & More Returns in 25 Years



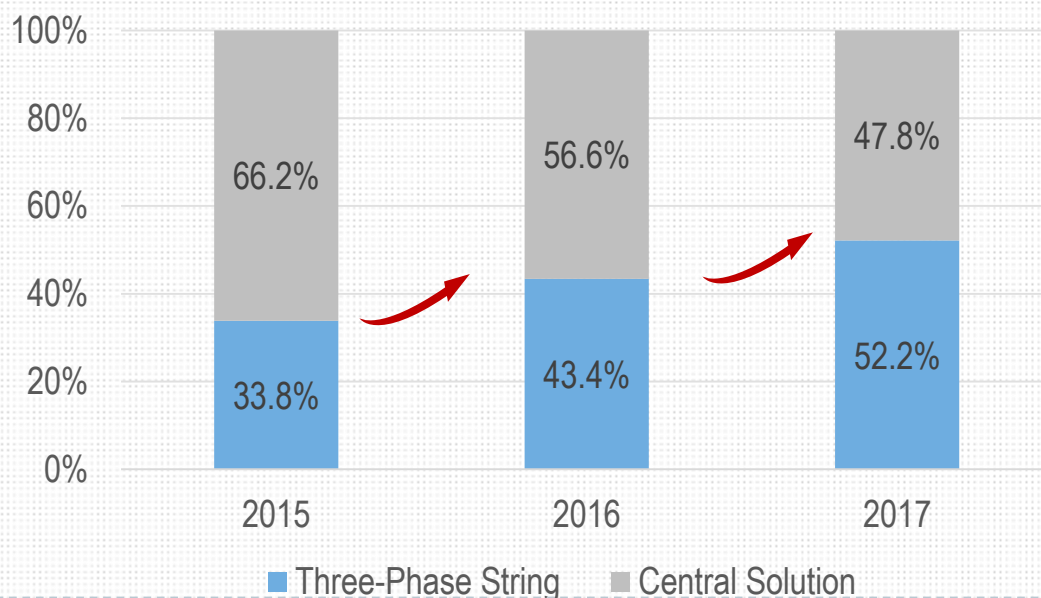
String Inverter, Already the Mainstream in Utility-scale

“Three-phase string inverter shipments ... exceeded central inverter shipments by nearly 4GW. Decentralized system architectures in utility-scale solar continue to increase in popularity ...”

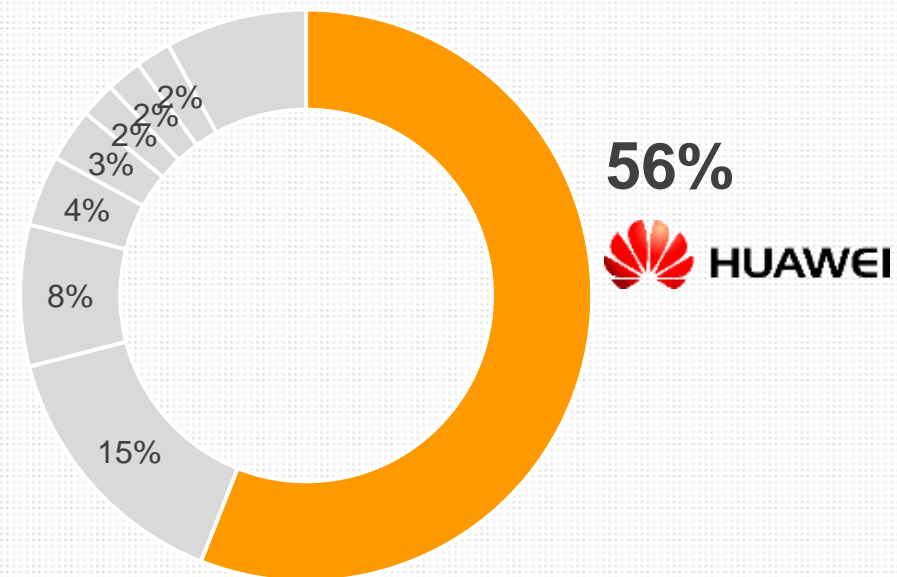
gtmresearch

Global Solar PV Inverter Market Shares and Shipment Trends 2018

Market share of three-phase string inverter keeps increasing in utility-scale



Global Three-Phase String Inverter Market Shares, 2017(MWac)



Always Available for Highest Yields



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