

Huawei Solar Solution For Mining

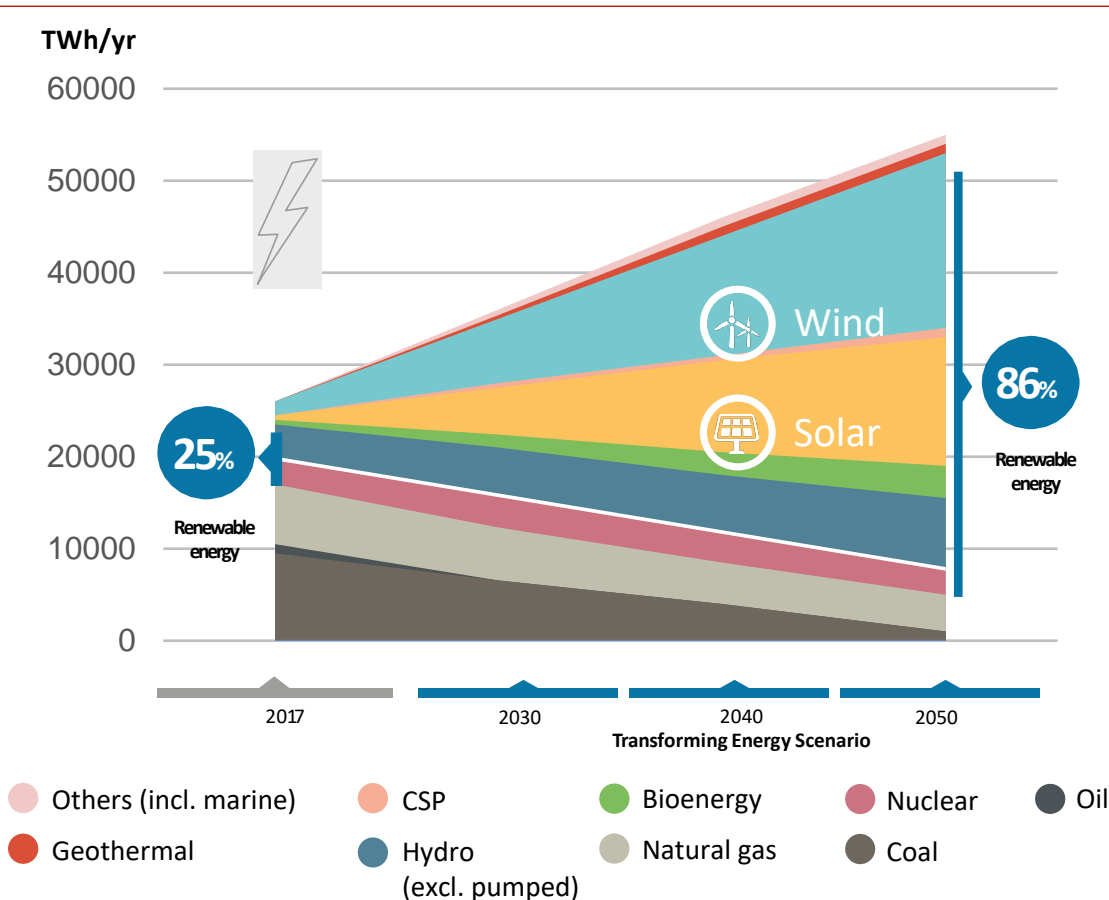


HUAWEI

Energy Strategy Transformation

Promoting Solar & Wind to Become the Major Energy

PV: the major energy supply for power plant installation



Huawei Confidential

Governments & corporations specify low-carbon targets



South Africa

Carbon neutral realized **in 2050**



EU

Carbon neutral realized **in 2050**

GHG emission -60% **by 2030**, 32% renewable energy



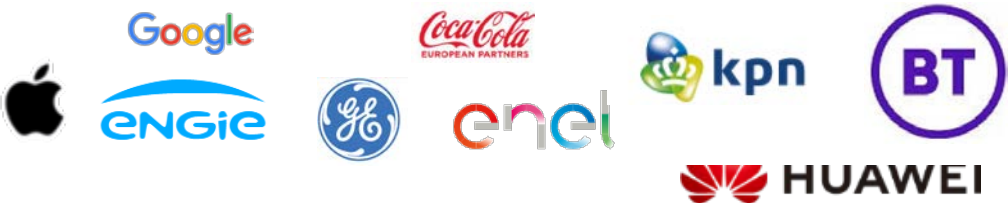
China

Carbon neutral realized **in 2060**

Peak value **by 2030**, 20% renewable energy

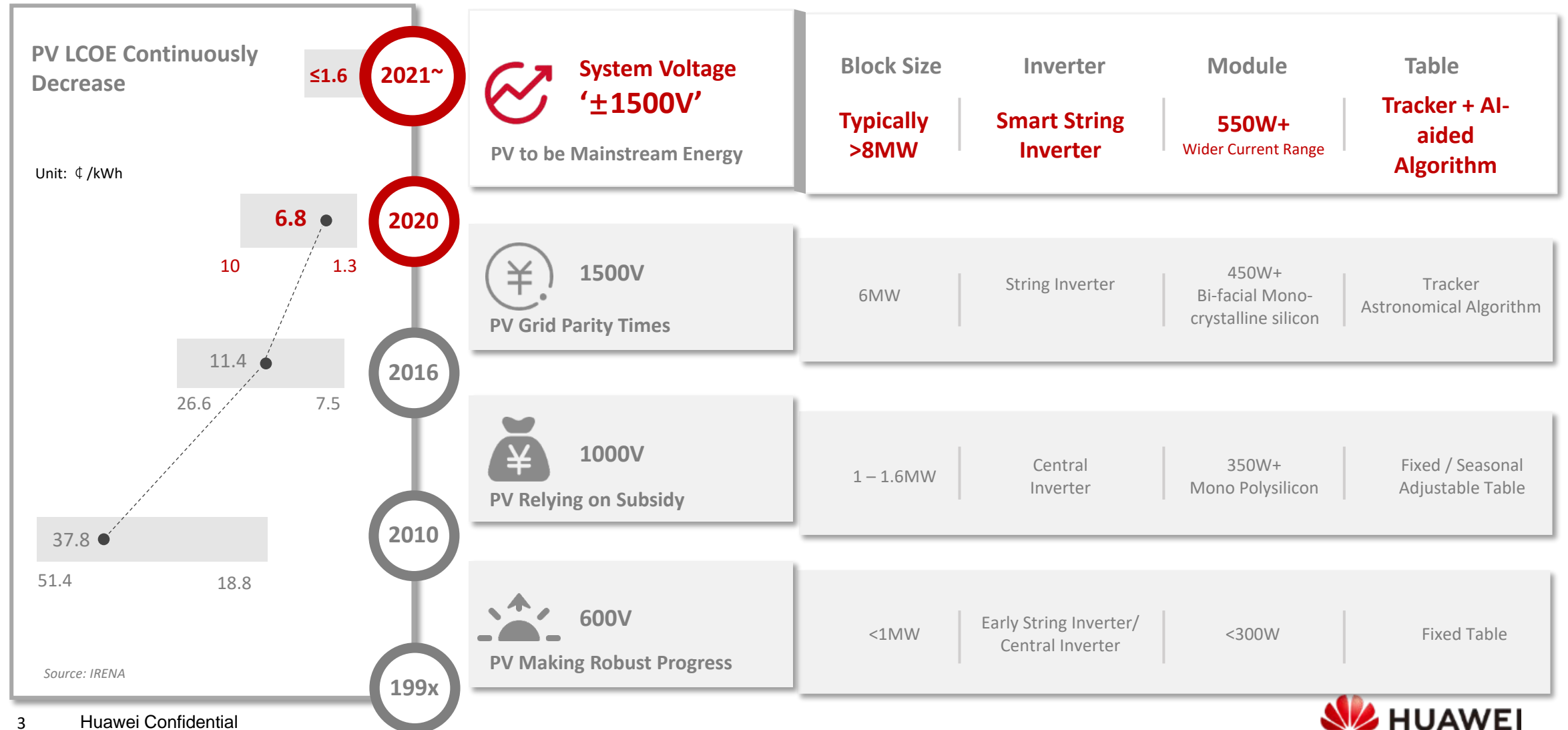
Strategic transformation of energy
giants accelerate Carbon Neutral

Various Power consumption companies join
RE100 & promise to achieve 100% renewable
energy power consumption



PV LCOE Continuously Decrease

Speeding Up Innovative Technology



South Africa 100MW License Threshold Policy

Lack of Power, Load-shedding a lot

Level1 2.5H

3	STAGE	1	Static monthly version .						
Day of the month		1	2	3	4	5	6	7	
	0:00	2:30							
	2:00	4:30					1		
Province	4:00	6:30	1						
Gauteng	6:00	8:30							
Select City	8:00	10:30							
City of Johannesburg	10:00	12:30						1	
Select Suburb	12:00	14:30	1						
Althea AH (3)	14:00	16:30							
Show individual stages	16:00	18:30							
Yes	18:00	20:30							1
	20:00	22:30		1					
	22:00	0:30							

Level2 5H

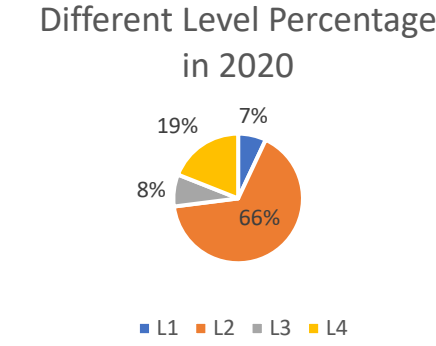
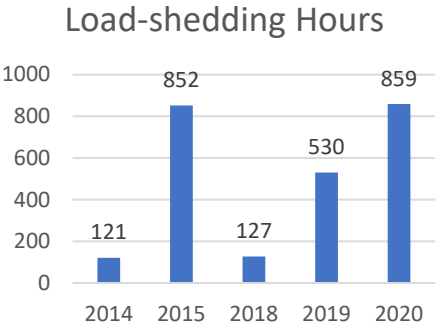
3	STAGE	2	Static monthly version .						
Day of the month		1	2	3	4	5	6	7	
	0:00	2:30							
	2:00	4:30					1	2	
Province	4:00	6:30	1	2					
Gauteng	6:00	8:30							
Select City	8:00	10:30							
City of Johannesburg	10:00	12:30					1	2	
Select Suburb	12:00	14:30	1	2					
Althea AH (3)	14:00	16:30							
Show individual stages	16:00	18:30							
Yes	18:00	20:30							1
	20:00	22:30		1	2				
	22:00	0:30							

Level4 7.5H

3	STAGE	4	Static monthly version .						
Day of the month		1	2	3	4	5	6	7	
	0:00	2:30							
	2:00	4:30					1	2	3
Province	4:00	6:30	1	2	3	4			
Gauteng	6:00	8:30							
Select City	8:00	10:30							
City of Johannesburg	10:00	12:30					4	1	2
Select Suburb	12:00	14:30	4	1	2	3			
Althea AH (3)	14:00	16:30							
Show individual stages	16:00	18:30							
Yes	18:00	20:30					3	4	1
	20:00	22:30	1	4	1	2			
	22:00	0:30							

Level8 13.5H

3	STAGE	8	Static monthly version .						
Day of the month		1	2	3	4	5	6	7	
	0:00	2:30	7						
	2:00	4:30					1	2	3
Province	4:00	6:30	1	2	3	4	5	6	7
Gauteng	6:00	8:30	5	6	7	8			
Select City	8:00	10:30							
City of Johannesburg	10:00	12:30					4	1	2
Select Suburb	12:00	14:30	4	1	2	3	8	5	6
Althea AH (3)	14:00	16:30	8	5	6	7			
Show individual stages	16:00	18:30							
Yes	18:00	20:30					3	4	1
	20:00	22:30	3	4	1	2	7	8	5
	22:00	0:30	7	8	5	6			



Statement of 100MW License Threshold Policy

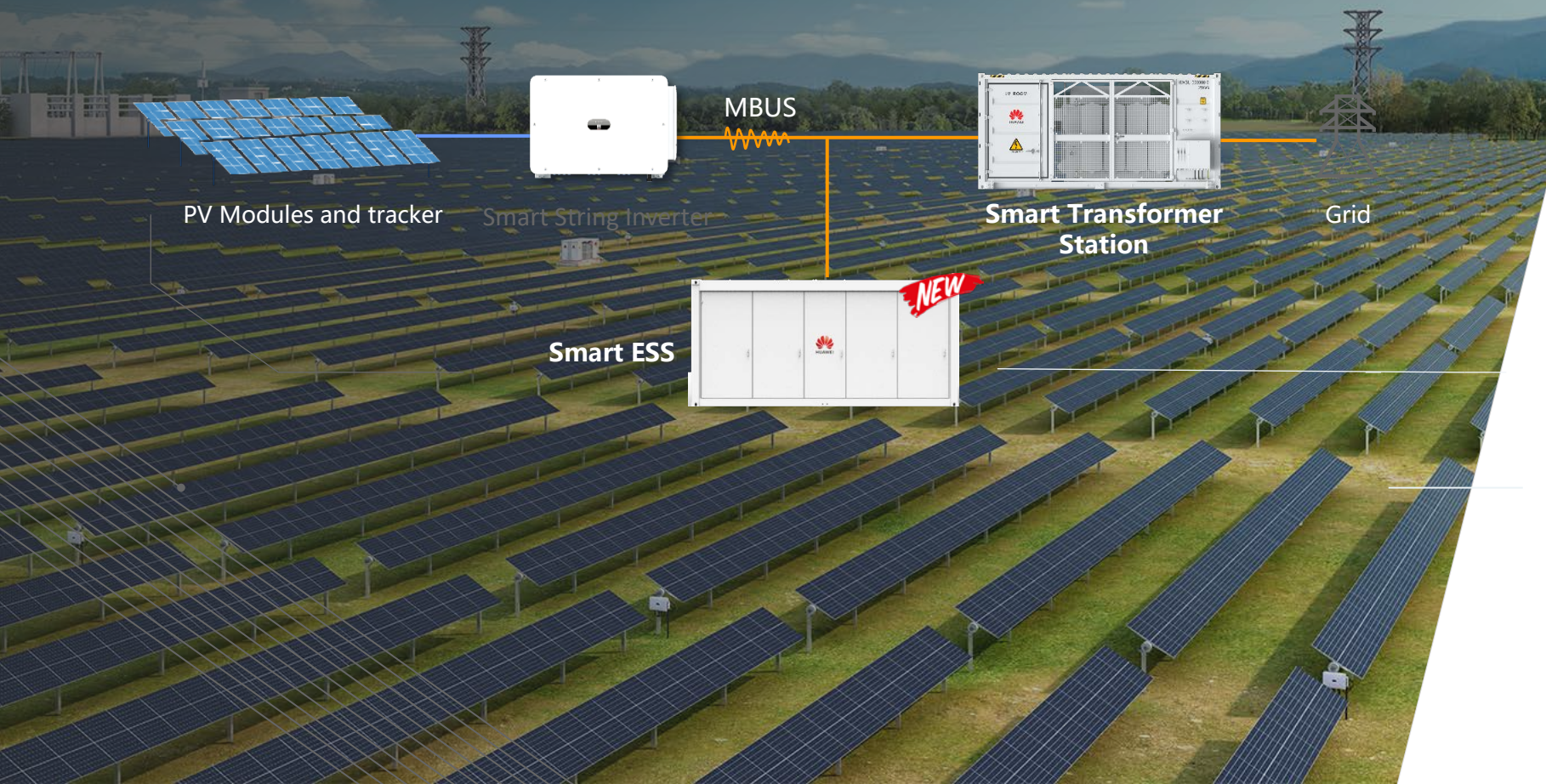
◆ 12 Aug 2021: Minister Gwede Mantashe of Mineral Resources and Energy on amendment to Schedule Two of the Electricity Regulation Act, Government Gazette 44989



“Activities with a capacity of no more than 100MW, exempt from licensing and require registration”

AI BOOST Solar-storage Synergy

Optimal LCOE



Higher Yields

>3% More Generation

Smart O&M

50% O&M Efficiency Improvement

Safe & Reliable

99.996% Availability

Datong Coal Subsidence Area 100MW Frontrunner PV Project

Area: **167 hectares**

Yearly Generation: **120,000,000kWh**

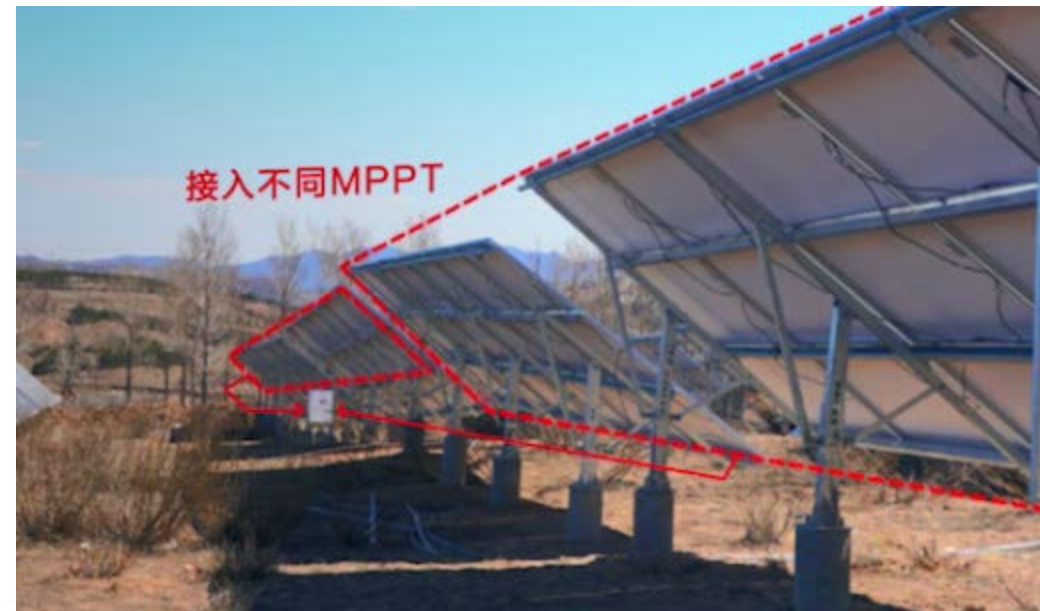
Yearly CO2 emission reduction: **57,000,000t**



The project is located in the coal mine subsidence area of Datong Coal Base

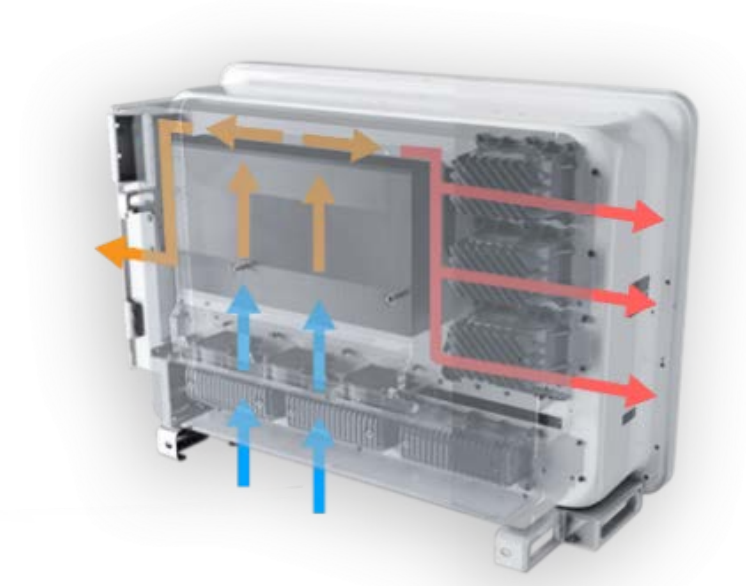
Challenge1——Complex terrain

The ground is rugged and the slopes are oriented in different directions.



2 PV strings per MPPT to Reduce the impact of PV string shielding and different orientations, +3% more generation

Challenge2 ——Large coal ash and soil ash on site



IP66 Fully Sealed Design, Complete Dust/waterproof

More reliable for outdoor application & OPEX saving

Challenge 3——Inconvenience for large device transportation



Small size, light weight, and easy installation and O&M

Thank you.

Bring digital to every person, home, and organization for a fully connected, intelligent world.

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