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Energy transition pioneer since 1981



> 160 GW installed inverters



> 4,000 employees



> 20

> 20 GW installed battery inverters patents & utility models

countrie sales & service)



> 1,600



> Compliant HQ and Production in EU





SMA SOLAR TECHNOLOGY AG

INTRODUCING-BESS Tailore&iCMOSFETs

Medium Voltage Power Station with Sunny Central Storage UFS (SiCMOSFETs)



Stack topology

B6 Bridge with 1x2.0 KIC

Compliant Grifbrming

Temperature Derating

0% till 35 C_{ambient}

Less PCS, more density

Derating in charging direction

0% (fully bidirectional)

Less PCS, more density

Efficiency (DC/AC)

99.2%

Less batteries, more throughput, less D

Thermal Reserve

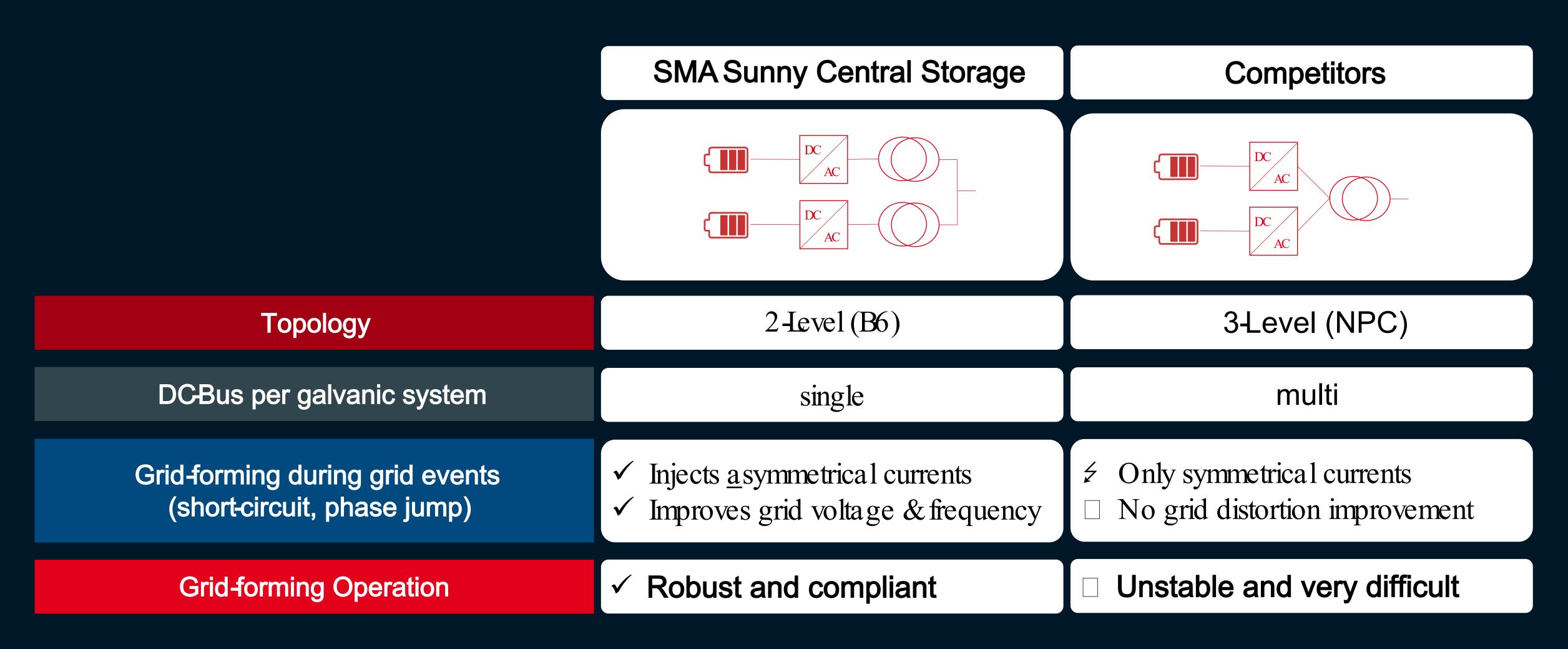
significant

More inertia, more power cycles





Stack Topology- Apples and Oranges







SiCMOSFETAdded revenue / savings

Scenario • Same BE				gs for less charging			 Less Battery Capacity Less BESS CAPEX (0.2-1%) Same revenue 2xSavings for less charging Same DoD 					 Same battery size - More Throughput Same BESS size (200MWh) More revenue 1xSavings for less charging Same DoD 							
Су	cles/day		1		1.5		2		1		1.5		2		1		1.5		2
Δ Efficiency (one-way)	0.20%	£	116,800	£	175,200	£	233,600	£	164,800	£	223,200	£	281,600	£	204,400	£	306,600	£	408,800
	0.40%	£	233,600	£	350,400	£	467,200	£	329,600	£	446,400	£	563,200	£	408,800	£	613,200	£	817,600
	0.60%	£	350,400	£	525,600	£	700,800	£	494,400	£	669,600	£	844,800	£	613,200	£	919,800	£	1,226,400
	0.80%	£	467,200	£	700,800	£	934,400	£	659,200	£	892,800	£	1,126,400	£	817,600	£	1,226,400	£	1,635,200
ΔEf	1.00%	£	584,000	£	876,000	£	1,168,000	£	824,000	£	1,116,000	£	1,408,000	£	1,022,000	£	1,533,000	£	2,044,000



Assumptions: 200MWh BESS; avg. buying price: £40/MWh; avg. selling price: £120/MWh; over 10 years

Thermal Reserve

More resilience and more revenue potential

- Thermal cycle for PCS ≠ battery charge cycle
 - Various heating-cooling cycles of components accelerate aging
 - Most PCS in the market were designed with PV mission profile (1-2 thermal cycles per day)
 - SCS UP uses air outlet louvers which reduce cooldown
- SCS URSSiCMOSFETs operate at significantlywer component temperatures and thus allow various thermal cyclesa day
- This allowsmore aggressive BESS operating strategiand hence more revenue potential
- Further, it reduces the likelihood of failures improves the availability and expands the operational life of the PCS





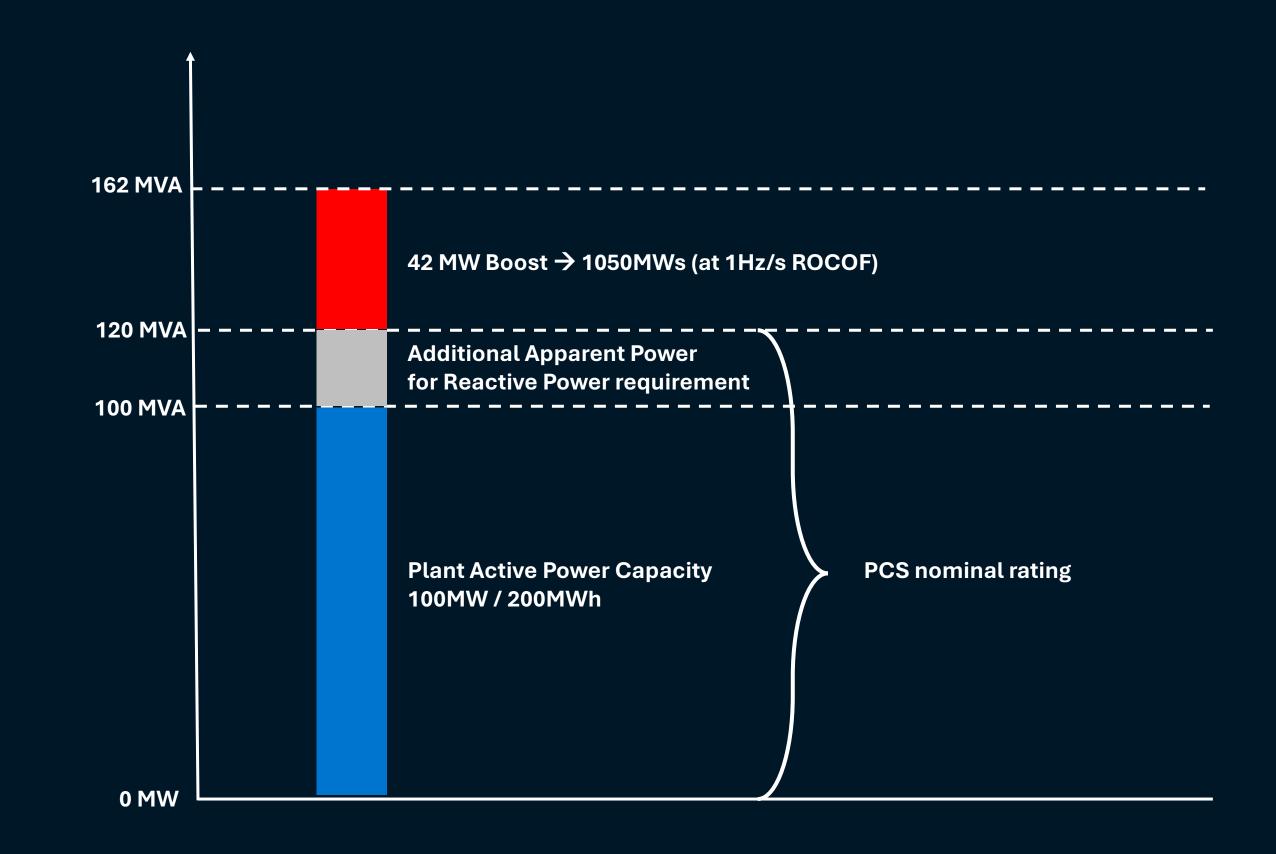


Thermal Reserve

Boost Capability for Inertia

- +35% Boost capability over 5sec
- 100MW / 200MWh plant can provide 1050MWs Inertia on top
- At £2000 / MWs p.a.:
 1050MWs Inertia are worth

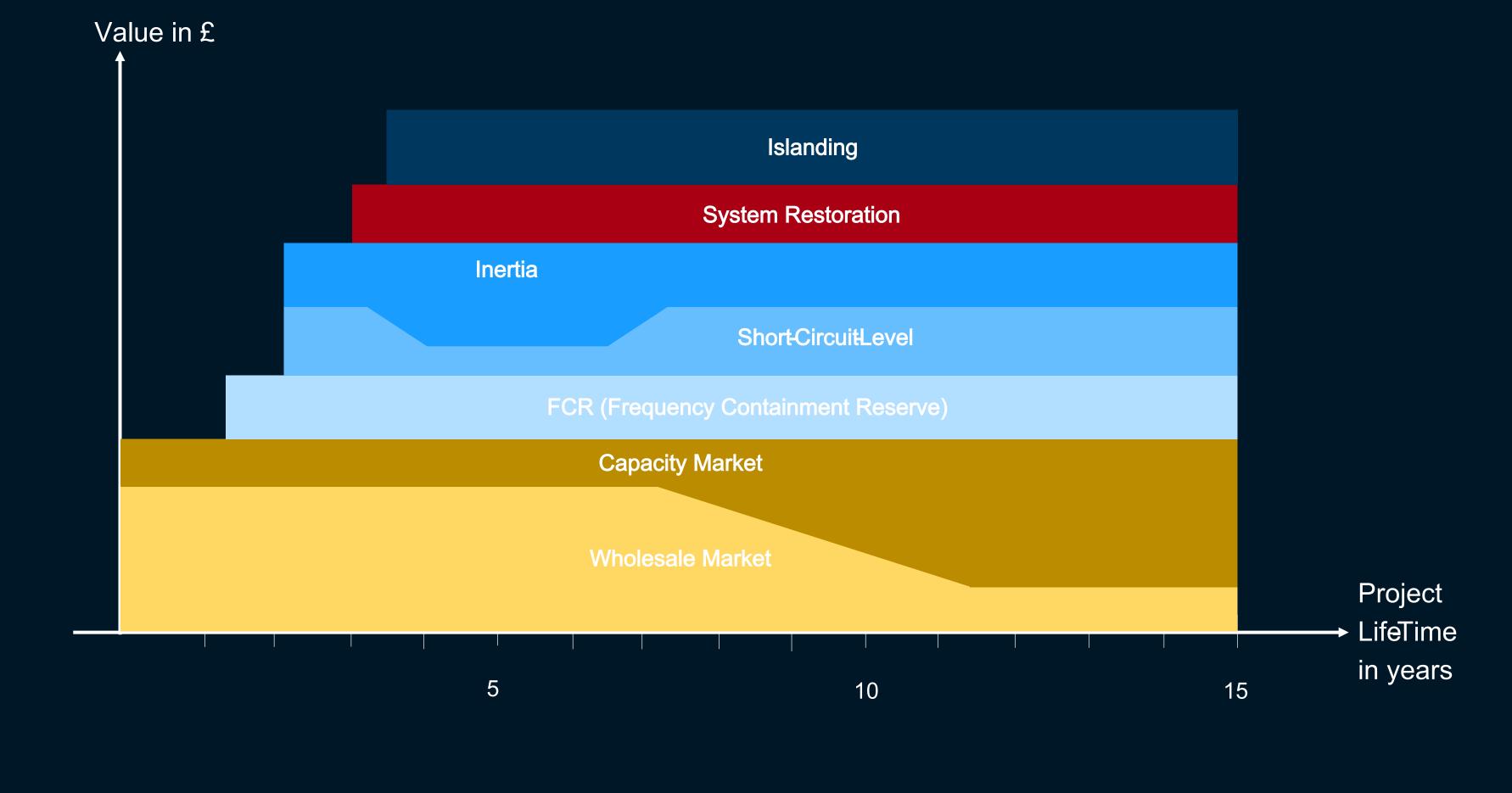
£ 2,100,000 p.a.





Enhance Gridforming and Inertia

FutureProof now— Enable later



- Add use cases when they become attractive
- Ensure "stackability" of inertia
- Buy right PCS today
- SMA Power Plant Manager ensuring use case stacking, plant grid compliance and plant level inertia





Summary

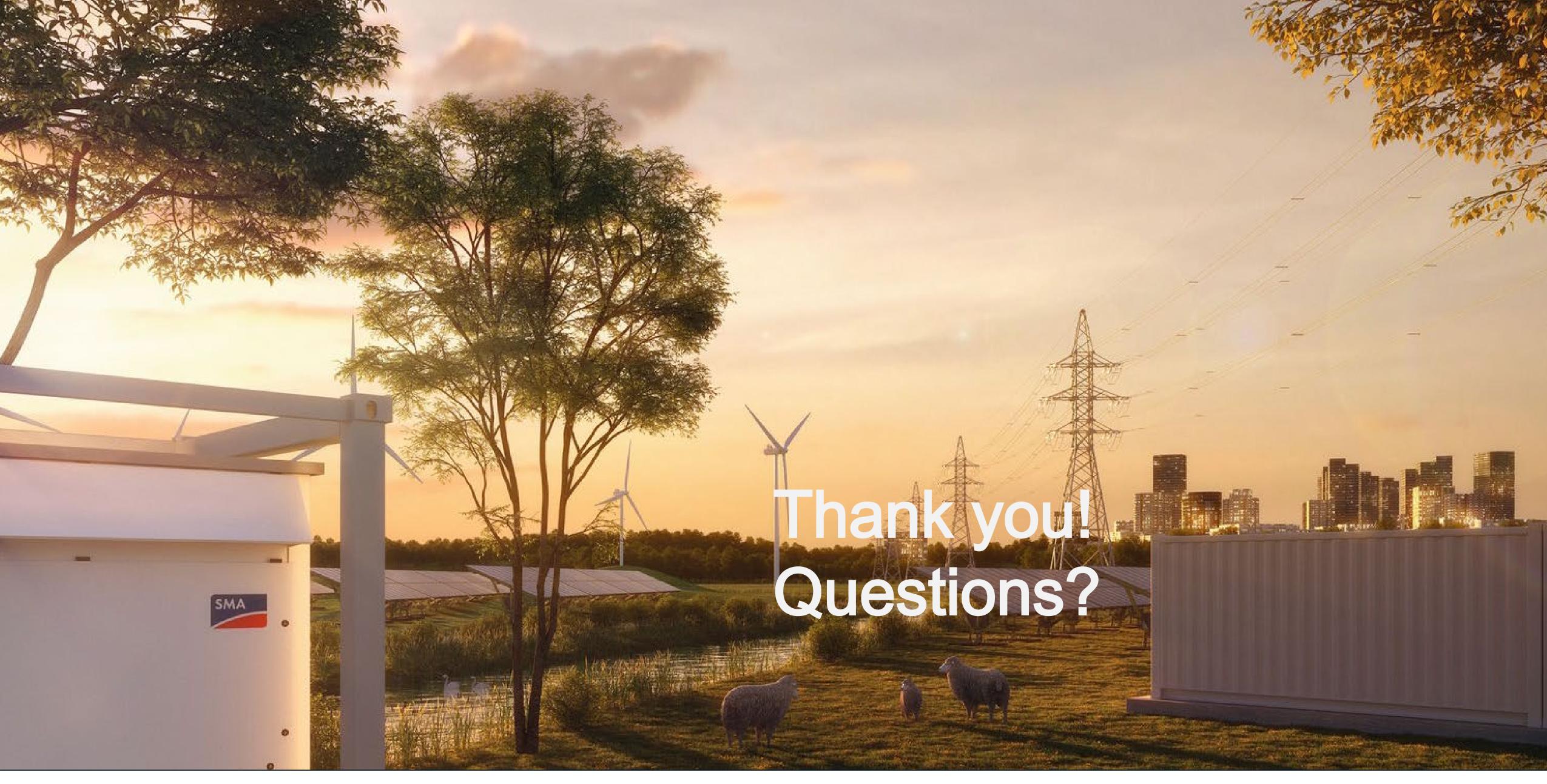
- BESS Tailored Power Stack
- SiCPCS, sick ROI



MVPS with SCS UB (SiCMOSFETs)

Stack topology	B6 Bridge with 1x2.0 K3/C	Compliant Grifbrming					
Temperature Derating	0% till 35 C _{ambient}	CAPEX Savings					
Derating in charging direction	0% (fully bidirectional)	CAPEX Savings					
Efficiency (DC/AC)	99.2%	CAPEX/OPEX Savings & More Reven					
Thermal Reserve	significant	More Revenue (inertia, power cycles)					





ENERGY THAT CHANGES SMA Solar Technology AG 19th February 2025 UK Energy Storage Summit, London Carsten Wendt wendt@sma.de

