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FlexConvert BESS

High-energy

the flexible, compact and versatile energy storage system solution

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FlexConvert BESS is the modular and flexible electrical energy storage system for a reliable power supply and provides energy storage for a large range of applications.

From generation to consumption, **FlexConvert BESS** helps to optimize asset performance by stabilizing frequency and voltage.

FlexConvert BESS is perfect for self-consumption optimization and back-up power for commercial and industrial application, as well as for island operations.

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Applications and use cases

FlexConvert BESS can be applied to multiple uses in the industrial, commercial and utility sectors and works with highly developed and weak grids to balance energy from various sources.

On-grid solutions

Voltage stabilization

Frequency regulation

Peak load management

Load shifting

Energy trading

Ramp-Rate Control

Uninterruptible power supply

Off-grid solution

Islanding

Black start capability

Fuel Save

Power quality

Power reliability

Renewable penetration

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FlexConvert BESS High-energy

the flexible, compact and versatile container energy storage system solution including: Enclosure, Inverter, NAS® Battery, EMS, Aux-transformer and Control

AC-Connection	FC-PCSU-250	FC-PCSU-500	FC-PCSU-750	FC-PCSU-1000
Nominal AC Power	240 kW	490 kW	735 kW	980 kW
Rated apparent power	275 kVA	550 kVA	825 kVA	1100 kVA
Fault Ride Through	ARN 4110 and BDEW, other upon request			
Power factor cos (φ)	± 0 - 1.0 (four-quadrant operation)			
AC nominal voltage	480 V	165 V	250 V	330 V
Grid voltage (LV-option)	380 - 690 V (with optional transformer)			
Grid voltage (MV-option)	6 – 33 kV (with optional transformer)			
AC operating current	300 A	1890 A		
Maximal AC current	330 A	2100 A		
Grid frequency	50 Hz/60 Hz			
Max. efficiency	98.5 %			
DC-Connection				
Compatible NAS® Bat.	250 kW	500 kW	750 kW	1000 kW
General data				
Container size	ISO 20ft. Container			
Weight	10 t	12 t		
Cooling	Liquid and air cooling			
Relative humidity	15 % to 100 % without dew conditions			
Operation temperature	-25… +50°C (extended range upon request)			

Technical data are subject to change, even for reasons on country-specific deviations. Indrivetec assumes no liability for errors and omissions.

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FlexConvert BESS High-energy

compatible with NAS® Battery system,
produced by NGK Insulators Ltd, and distributed by BASF

DC-Connection	250 kW	500 kW	750 kW	1000 kW
Max. discharge power	250 kW	500 kW	750 kW	1000 kW
Max. charge power	250 KW	500 kW	750 kW	1000 kW
Dischargeable Energy	1450 kWh	2900 kWh	4350 kWh	5800 kWh
DC voltage range	135 - 228 VDC	270 - 456 VDC	405 - 684 VDC	540 - 912 VDC
Max. charging current	1200 A			
Max. discharging current	1500 A			
Aux. power at 440 VAC	30 kW	60 kW	90 kW	120 kW
Battery life	20 year, equivalent operation 7300 cycles * with DOD 100 %			
General data				
Container size	ISO 20ft. Container			
Numbers of Container	1	2	3	4
Weight	21 t	42 t	63 t	84 t
Operation temperature	-20... +45°C (extended range upon request)			
Cooling	Air conditioner and air cooling			
Relative humidity	15 % to 85 % without dew conditions			
Altitude	1000 m			
Snow accumulation	1 meter high			
Site condition	Outdoor			
Seismic	Static horizontal acceleration 1.0 g			

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** The equivalent operation cycle is only defined by accumulated discharged energy and independent from operating Depth-of-Discharge (DoD).*

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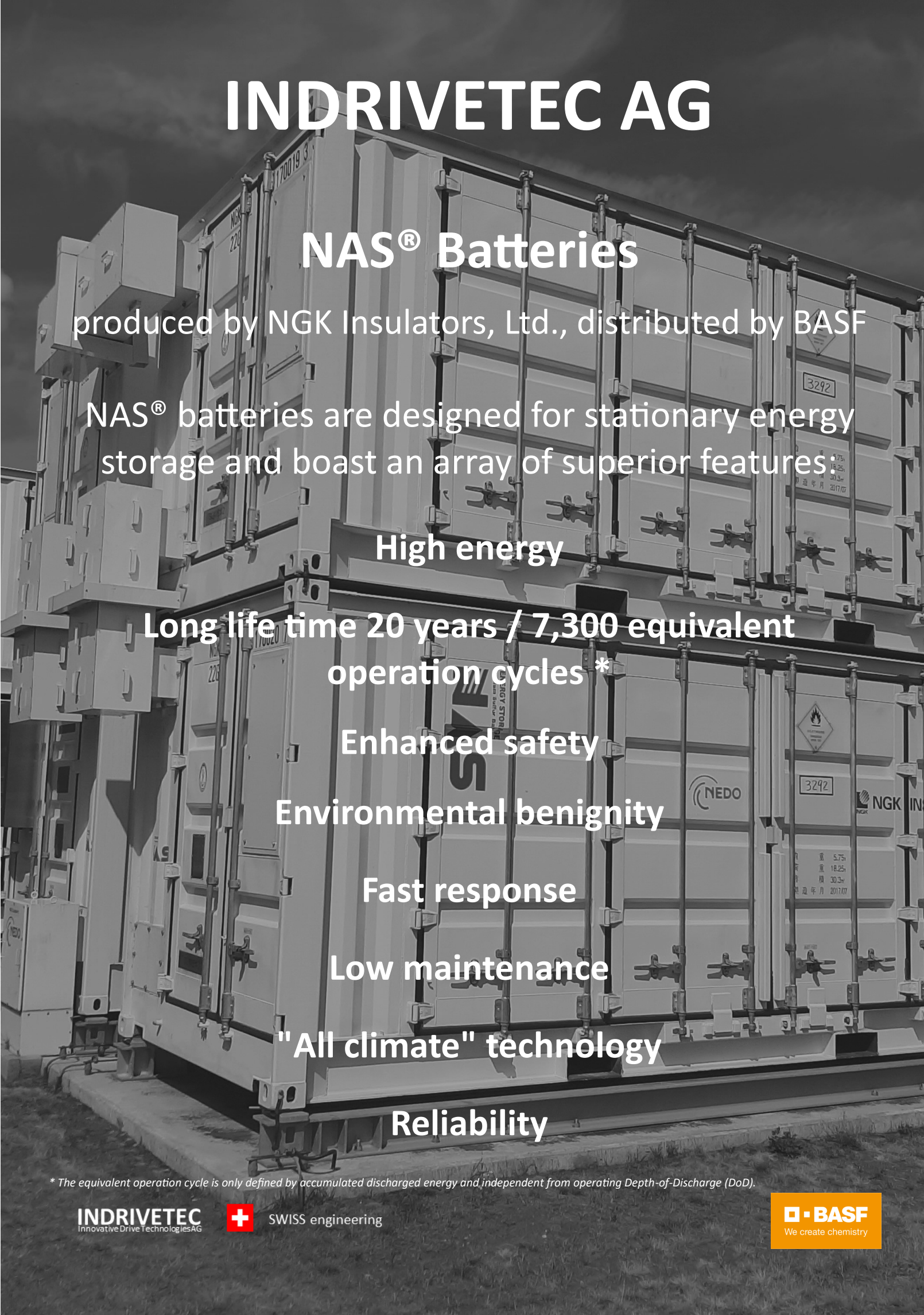
BASF We create chemistry



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NAS® Batteries

produced by NGK Insulators, Ltd., distributed by BASF

NAS® batteries are designed for stationary energy storage and boast an array of superior features:

High energy

Long life time 20 years / 7,300 equivalent operation cycles *

Enhanced safety

Environmental benignity

Fast response

Low maintenance

"All climate" technology

Reliability

** The equivalent operation cycle is only defined by accumulated discharged energy and independent from operating Depth-of-Discharge (DoD).*

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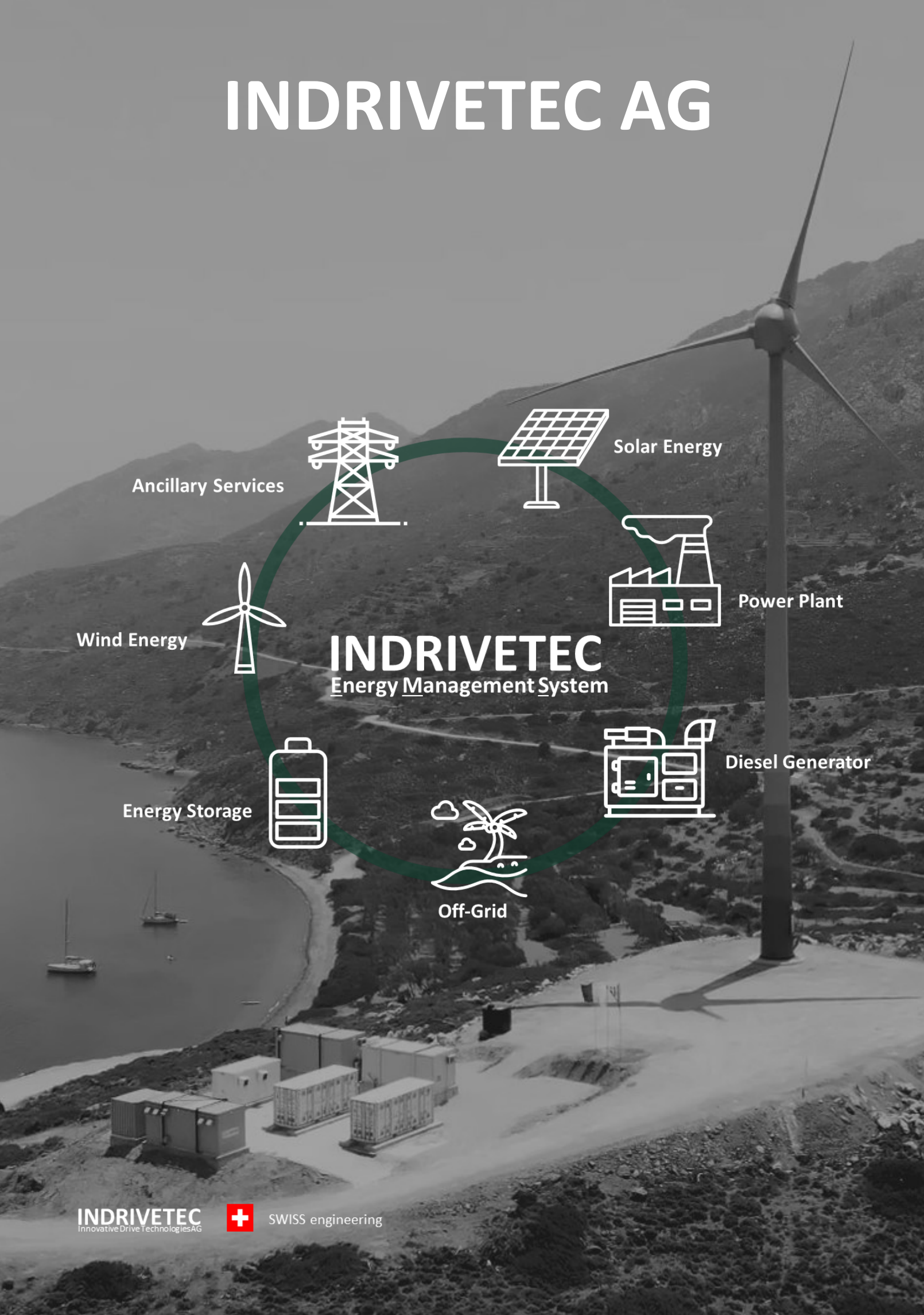

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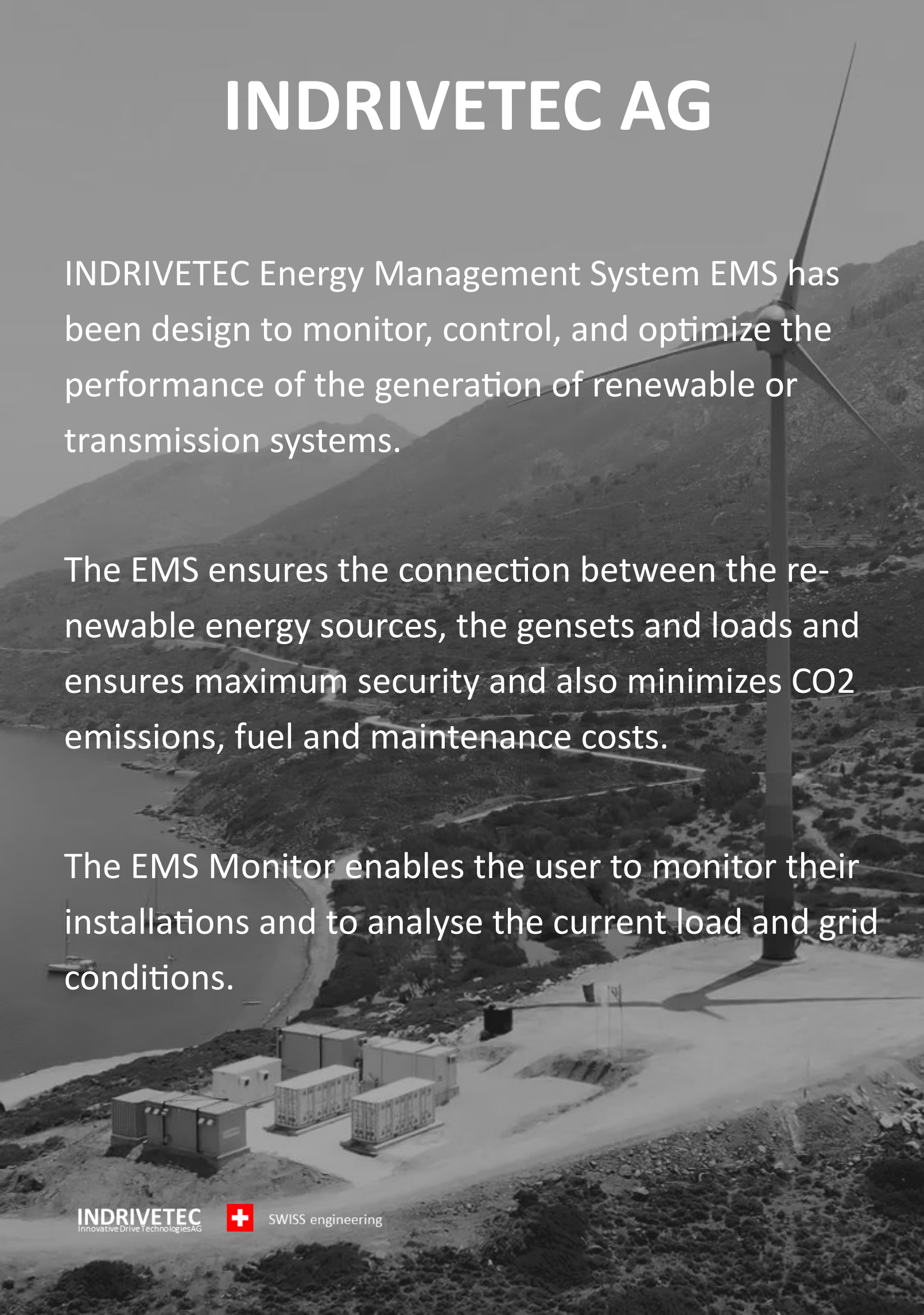
INDRIVETEC Energy Management System EMS has been design to monitor, control, and optimize the performance of the generation of renewable or transmission systems.

The EMS ensures the connection between the renewable energy sources, the gensets and loads and ensures maximum security and also minimizes CO2 emissions, fuel and maintenance costs.

The EMS Monitor enables the user to monitor their installations and to analyse the current load and grid conditions.



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