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SMA & Sunbelt Energy at a glance



SMA Solar Technology AG

- Founded in 1981
- Installed base: > 95 GW
- Portfolio to serve all PV & storage segments
- 20 subsidiaries with strong service capabilities and access to all channels
- First company to deliver > 3GW of storage PCS

SMA Sunbelt Energy GmbH

- 100% subsidiary of SMA Solar Technology AG
- Focus on off-grid, hybrid and battery based solar projects in the sunbelt region
- Business model covers component and solution sales, system integration and EPCM of battery projects
- Executed >125 MW of hybrid & storage projects as integrator/EPC
- Currently delivering approx. 100 MW of storage projects
- More than 200 MW of contracted BESS projects for 2020

SMA has extensive know-how & tailored solutions in the field of battery storage.

SMA Products & Services for the RMIPPP





I. Battery Inverters

2000 - 4600 kW

SMA first company with installed base > 3 GW

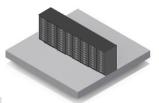
DC Coupling Ready for co-location of renewables



II. MV Solution MVPS

4000 - 4600 kVA

Plug & Play 20' skidtainer with transformer, RMU and Sunny Central Storage inverters



III. Batteries

SMA solution is technology and battery brand agnostic

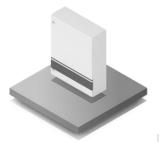
performance warranty up to 20 years and SOH 60%



IV. Battery Housing

Customised and optimised specific project design

Cost effective, often locally manufactured e-houses or ISO containers



V. Control & Monitor

Smart energy manager for communication and overall system monitoring

Controller for battery grid code compliance



VI. Engineering & Project Management

Battery storage design and simulation, grid studies, detail engineering, project management and Know-how transfer



VII. Service and O&M

Remote and on-site service, warranty extension, spare parts management, 24/7, full or partial O&M service, repowering

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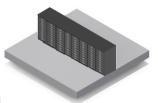
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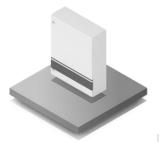
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DC- and AC-Coupled SMA Solutions



PV + Storage Solutions



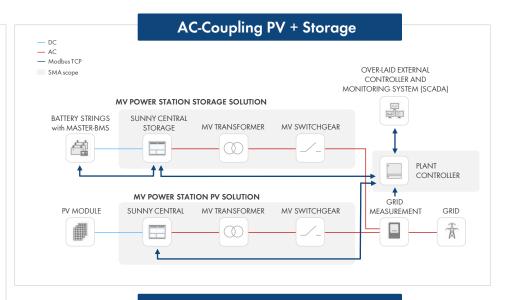
AC- & DC-Coupled

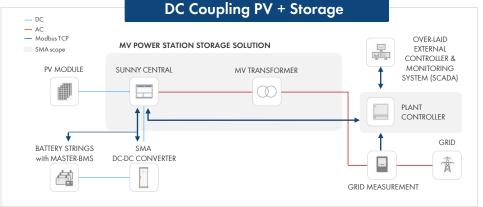
 Depending on project needs, one or even both can be selected



Add storage today or later

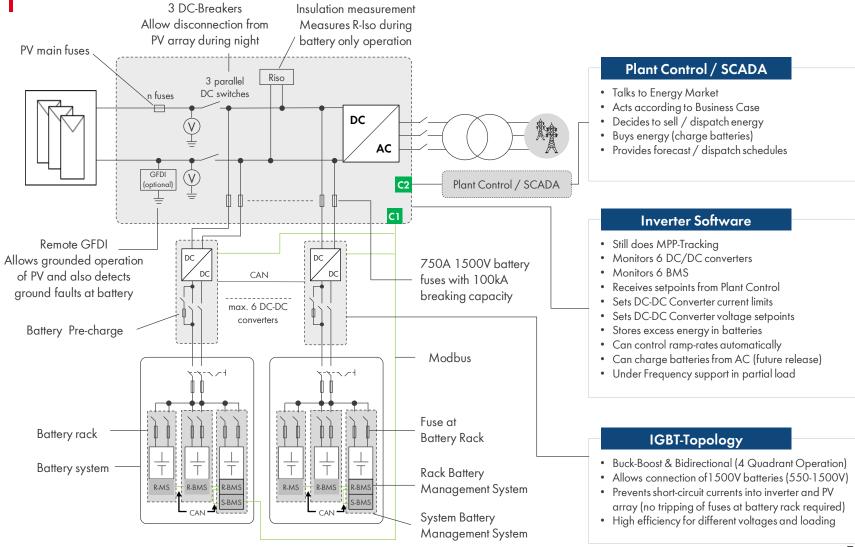
- Add AC-coupled storage at PCC (consider spare MV-feeder today)
- Buy a Sunny Central UP with "DC-Coupling Ready" option today and add storage later





SMA System Architecture





SMA Sunny Central Storage





PORTFOLIO

- Sunny Central Storage
 - 1,000/1,100/1,500 V 1,900 - 3,950 kVA
- Sunny Central Storage UP

1,500 V 3,450 - 3,950 kVA

Sunny Central Storage UP-XT

1,500 V 3,450 - 3,950 kVA | 4,000 - 4,600 kVA discharge

SMA Sunny Central Storage





Power Class ⁽¹⁾	1,900 kVA	2,200 kVA	2,475 kVA	2,900 kVA
Power @50°C (2)	1,710 kVA	2,000 kVA	2,250 kVA	2,670 kVA
U Battery	500 to 950 V	570 to 950 V	634 to 1000 V	740 to <u>1100</u> V
U DC Min	490 V	545 V	614 V	720 V
U AC	337 V	385 V	434 V	520 V

(1) Output apparent power is function of Temperature / Vpu / Power Factor / DC Voltage (2) Output @ 50° C / 1.0 Vpu / 0.8 PF / 950V for SCS1900/2200 & 1000V for SCS2475/2900

SMA Sunny Central Storage UP





Power Class ⁽¹⁾	3,450 kVA	3,622 kVA	3,795 kVA	3,967 kVA
Power @50°C (2)	2,880 kVA	3,020 kVA	3,170 kVA	3,310 kVA
U Battery	880 to 1500 V	921 to 1500 V	962 to 1500 V	1003 to 1500 V
U DC Min	849 V	891 V	934 V	976 V
U AC	600 V	630 V	660 V	690 V

(1) Output apparent power is function of Temperature / Vpu / Power Factor / DC Voltage (2) Output @ 50 °C / 1.0Vpu / 0.9 PF / 1,200V

SMA Sunny Central Storage UP-XT





Power Class ⁽¹⁾	3,450 kVA 4,000 kVA Discharge	3,622 kVA 4,200 kVA Discharge	3,795 kVA 4,400 kVA Discharge	3,967 kVA 4,600 kVA Discharge
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SMA DC/DC Converter





SPECIFICATIONS

- Improved thermal behavior
 - 500A @ 30°C
 - 450A @ 40°C
 - 400A @ 50°C
- 500 kW at 1000 Vdc
- 600 kW from 1200 to 1500 Vdc
- 550 to 1500 Vdc input/output range
- Air-cooled
- 98.2% Average efficiency
- Plug & Play integration with Sunny Central PV inverters

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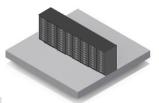
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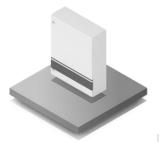
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SMA Medium Voltage Power Station (MVPS)





BENEFITS

- Turnkey solution for lowest cost and shortest installation and commissioning time
- Comprised of Sunny Central or Sunny Central Storage, Solar PV transformer and RMU
- Design according to IEC and IEEE standards
- Modular system for maximum flexibility
- Easy transport

SMA MVPS Portfolio Overview

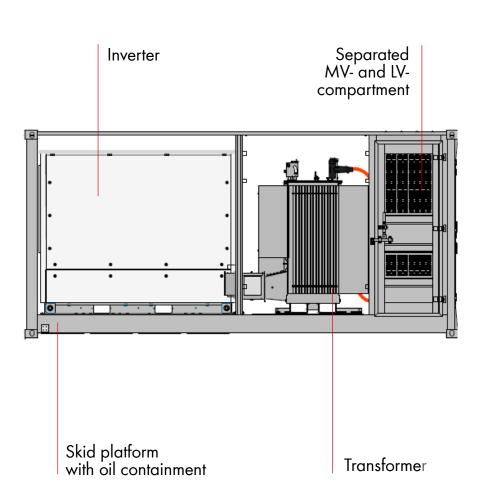


MV Power Station (MVPS)	Sunny Central	Sunny Central Storage
MVPS-4600-S2-10	SC 4600 UP	SCS 3950 UP / SCS 3950 UP-XT
MVPS-4400-S2-10	SC 4400 UP	SCS 3800 UP / SCS 3800 UP-XT
MVPS-4200-S2-10	SC 4200 UP	SCS 3600 UP / SCS 3600 UP-XT
MVPS-4000-S2-10	SC 4000 UP	SCS 3450 UP / SCS 3450 UP-XT
MVPS-3060-S2-10	SC 3060 UP	SCS 2630 UP-XT
MVPS-2930-S2-10	SC 2930 UP	SCS 2530 UP-XT
MVPS-2800-S2-10	SC 2800 UP	SCS 2400 UP-XT
MVPS-2660-S2-10	SC 2660 UP	SCS 2300 UP-XT
MVPS-2900-S2-11	SC 2900	SCS 2900
MVPS-2475-S2-11	SC 2475	SCS 2900
MVPS-2200-S2-11	SC 2200	SCS 2200

 $S2 \rightarrow S = Skid$, 2 = 20 Foot $10 \rightarrow Version 1.0$

SMA MVPS Technical Information





- Voltage Levels: 10 kV 35 kV
- Frequency: 50 / 60 Hz
- Ambient Temperature: -40° to +55°C
- Dimensions (LxWxH):
 6.058m x 2.438m x 2.896m
 (20 foot high cube shipping container)
- Transformer Type: KNAN (biodegradable oil with natural air cooling)
- Switchgear: 1 Feeder / 3 Feeders

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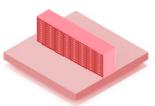
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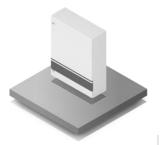
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SMA: More Than 3 GW Experience in Battery Integration



































- SMA is battery technology agnostic as our inverters can be combined with all relevant storage technologies
- SMA has systems in operation with most Tier 1 Battery manufacturers
- Every Battery interface is thouroughly tested in SMA's in-house test center before approval for usage

Optional Scope on Batteries



- Battery selection and supply
- Battery Sizing
- Ensure production capacity before bid submission to avoid deliver delays in uncertain market conditions
- Set-up of augmentation strategy to ensure cost efficient capacity over the lifetime
- Negotiate performance warranty for up to 20years lifetime with battery manufacturer



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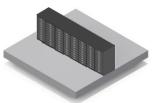
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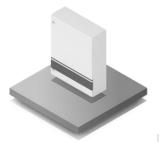
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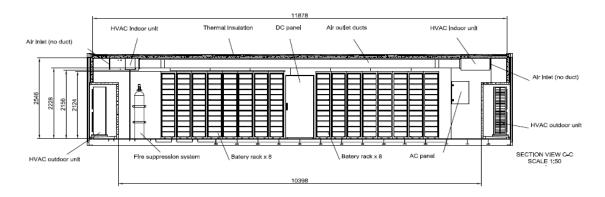
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Battery Housing Portfolio





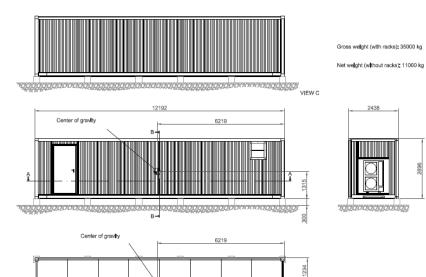
- Several housing options available
 - 20ft, 40ft, 45ft container
 - Prefabricated e-houses
- SMA can offer the following services
 - Supply and commissioning of battery container and e-houses
 - Consult clients during the battery housing supply and design



Battery Housing Portfolio



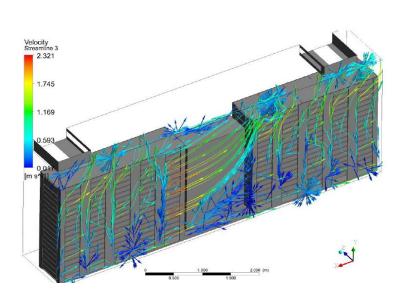


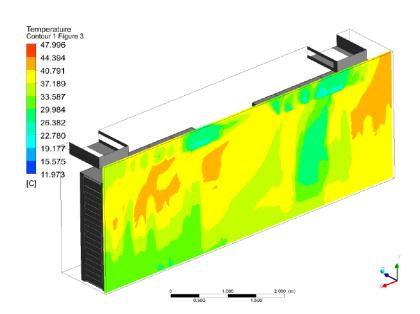




Benefit from SMA's Experience in Battery Housing



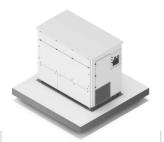




SMA has gained a lot of experience in engineering the battery housing solution such as detailed engineering of air flow and temperature behaviour within the housing to ensure compliance with battery warranty conditions

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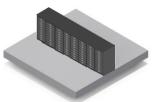
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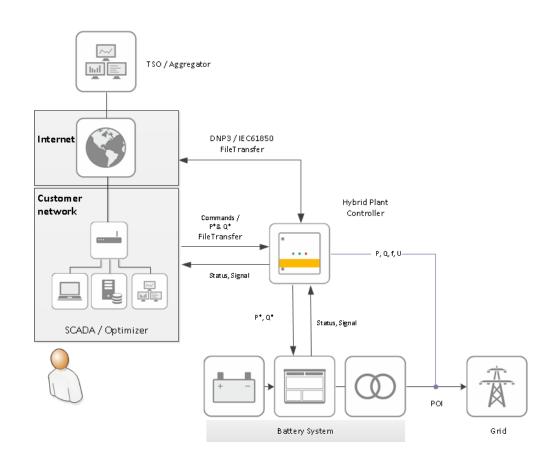
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Typical Communication Scheme







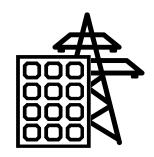
Power Plant Manager/Hybrid Controller Applications





















BESS Grid Services





Renewables Integration







Forecasting system required



- The BESF Connection Code draft 5.1 foresees a forecasting system.
- 6 hour forecasts as well as day ahead forecasts are required

11.1. BESF owners Availability Values for BESF of Category B and C

- (1) This section shall apply to BESF of categories B and C.
- (2) BESF owner shall make available the following signals for individual plants or subset of the signals if aggregated to the NSP/SO in the format and method specified by the NSP/SO:
 - a) Available discharging MWh, Available charging MWh, State of charge, Min SoC, Max SoC, Instantaneous Reserve Availability, Regulation reserve availability, Ten-minute Reserve availability, Supplemental Reserve availability day-ahead for a week for each hour before 10a.m.
 - b) Available discharging MWh, Available charging MWh, State of charge, Instantaneous Reserve Availability, Regulation reserve availability, Ten-minute Reserve availability, Supplemental Reserve availability for the next 6 hours updated hourly 10 to 20 minutes before the hour,
 - c) Available Mvar for the next 6 hours updated hourly 10 to 20 minutes before the hour.
- (3) The content of each forecast will be structured using XML tags. Examples are available on request. The format is subject to change.

The World's Largest Energy Data Platform





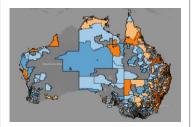
--- 700 GB processed weather data per month --- 1 TB processed satellite data per month --- 20 Million forecasts calculated per month --- 1.117 Virtual servers --- 30 Billion events per month --- 36 TB database volume --- 720 Million incoming files per month --- 10 TB incoming data per month --- 3.8 Million logins per month --- 700 GB processed weather data per month --- 1 TB processed satellite data per month --- 20 Million forecasts calculated per month ---



Configuration focused on your needs



Intra hour forcasting



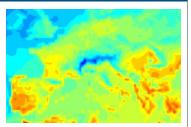
- Based on weather model ensemble, satellite measurements and live metering data
- Updated every 5 minutes

Intraday



- Based on a weather model ensemble and satellite data
- 24 updates
- Horizon 24 hours

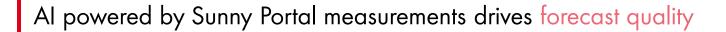
Day ahead



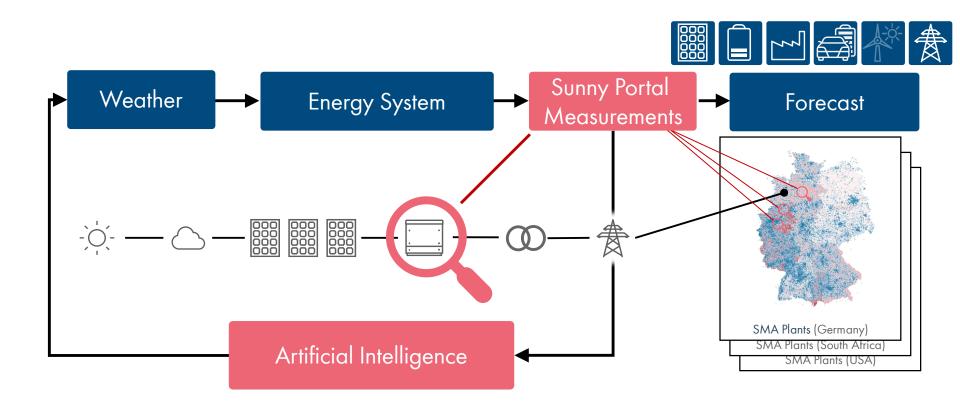
- Based on a weather model ensemble
- Horizon 24 hours of the next day
- Minimum of 4 updates till 12:00 a.m.

Data interface

- SMA Datalogger
- API
- email
- FTP
- ...







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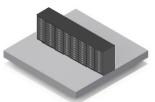
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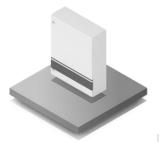
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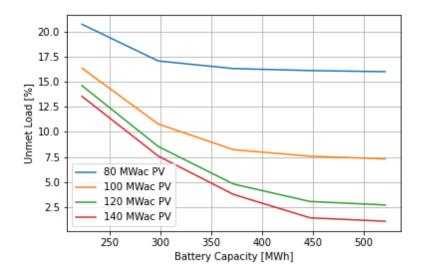
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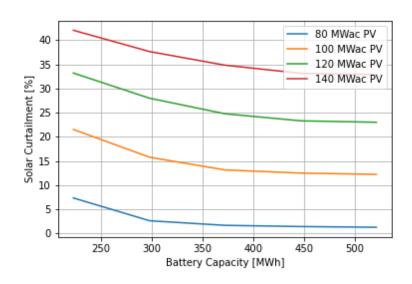
Assumptions:

- Single Axis tracker in Upington area
- DC/AC ratio 1,43
- AC coupled system
- Curtailment and unmet load for year 1



Results:

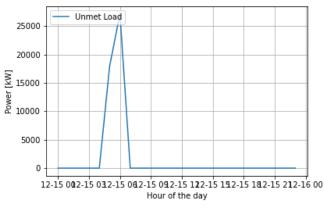
- Only significant oversizing lead to unmet load of <2%
 - E.g. PV 140MWac, BESS >400MWh
 - Competitive?



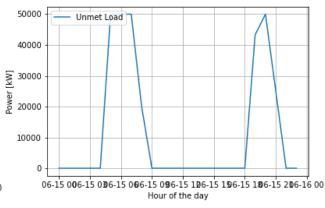


PV: 80MWac
BESS: 223MWh
Unmet load: ~20%

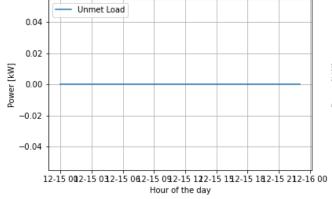


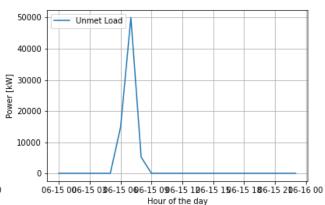


Winter



PV: 120MWac BESS: 372MWh Unmet load: ~5%

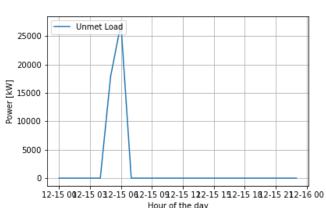


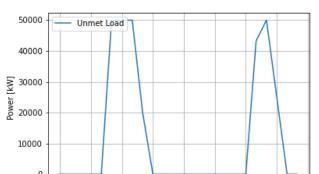


Summer



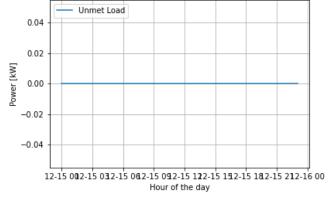
PV: 80MWac BESS: 223MWh Unmet load: ~20%

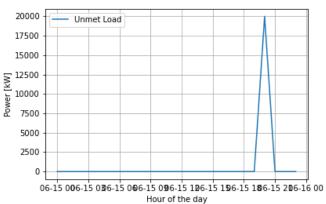




Winter

PV: 80MWac
BESS: 223MWh
Genset: 30MW
Unmet load: ~1%



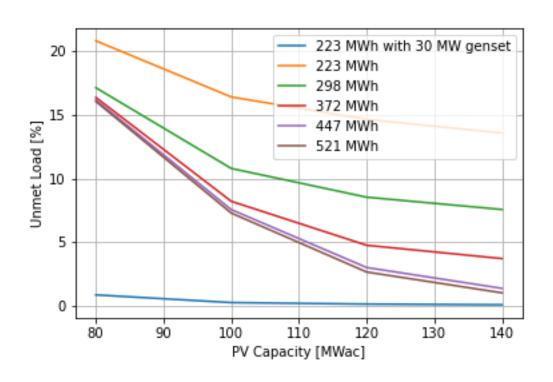


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Hour of the day



Comparison of unmet load per year for different sizing options



SMA Products & Services for the RMIPPP



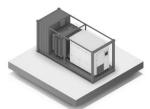


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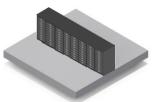
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performance warranty up to 20 years and SOH 60%



IV. Battery Housing

Customised and optimised specific project design

Cost effective, often locally manufactured e-houses or ISO containers



V. Control & Monitor

Smart energy manager for communication and overall system monitoring

Controller for battery grid code compliance



VI. Engineering & Project Management

Battery storage design and simulation, grid studies, detail engineering, project management and Know-how transfer

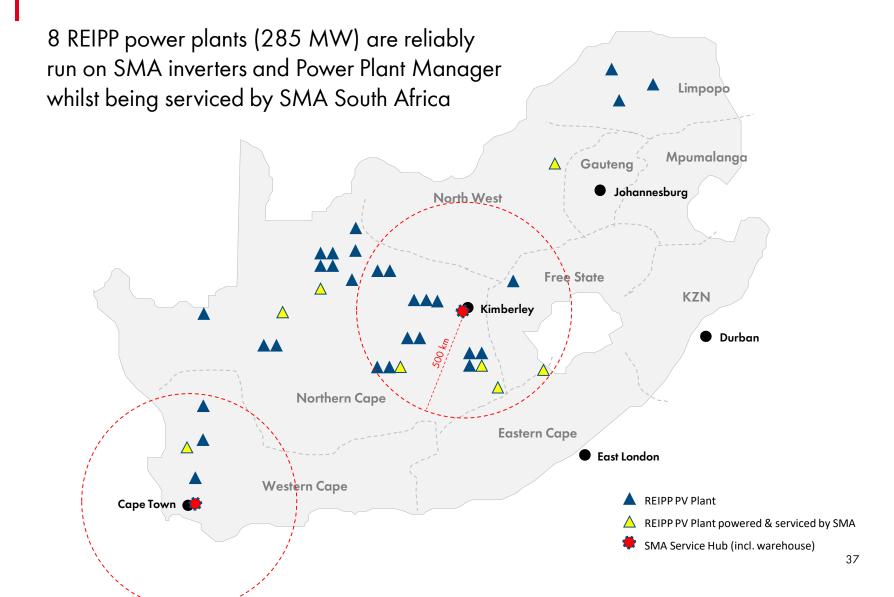


VII. Service and O&M

Remote and on-site service, warranty extension, spare parts management, 24/7, full or partial O&M service, repowering

SMA's unique and proven Service Team in South Africa





Choose SMA in South Africa because ...





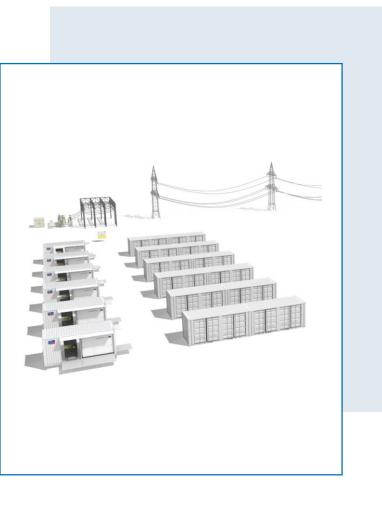
- ... we have **a local subsidiary** in Cape Town and Kimberley that features a team with **knowledge about the local market** conditions like B-BBEE and Local Content
- ... we have long-lasting relationships with all major IPP's in South Africa and our equipment runs reliably in local large-scale plants since 2013
- ... we maintain service hubs with trusted staff and parts in South Africa to ensure highest availability during power plant operation
- ... we run renowned **SMA Solar Academy courses** to train customers and their employees on SMA technology as well as **O&M of PV** (+storage) plants
- ... we keep pumping power into the South African grid by utilizing our **Power Plant Manager/Controller** on local utility-scale plants, a device **fully compliant to the newest South African Grid Code**





1 GW SMA Battery Inverters shipped in 2019 alone





Location / Project	Power	Application
South Korea	24 MW	Freq Control
St. Eustatius, Caribbean	1 MW	Hybrid PV-Diesel integration
UK	100 MW	Freq Control
UK	60 MW	Capacity Market and Freq Control
UK	60 MW	Capacity Market and Freq Control
UK	33 MW	Capacity Market and Freq Control
USA	35 MW	Reactive Power + Freq Control
USA, Texas	22 MW	Freq Control
Canada	12 MW	Grid Peak Load Shaving
Germany	3 MW	Freq Control
Germany	6 MW	Freq Control
Cobija, Bolivia	2.2 MW	Hybrid PV-Diesel integration
Germany	6.3 MW	Freq Control
Australia	0.5 MW	Renewable smoothing & energy shift
Caribbean Island	4.4 MW	Offgrid Electrification - Grid forming
Caribbean Island	4 MW	Offgrid Electrification - Grid forming

Selected References

Pelham (UK)











The main application of the project is the capacity market and frequency response services but also features other applications like Triads management and reactive power provision.

This project is the largest battery project in the European Union in a single location till date.

The complete project timeline from contract signature till commissioning was reached within 5,5 months.

Project

Location: Pelham, UK • Commissioning:

November 2017

Installed battery power: 64 MVA

- Installed battery storage: 50 MWh of Li-lon NMC batteries for frequency regulation
- Batteries installed in customized containers
- Connected at 132 kV

Plant information

SMA System Technology

- 26 SMA Sunny Central Storage 2475 with noise reduction packages
- 26 Medium Voltage Block 2475
- 7 Customized SMA E-houses
- SMA Power Plant Controller
- **EMS**

Langenreichenbach (Germany)





SMA's large scale on-grid project is a 16 MW prequalified PRL (Primärregelleistung – Frequency response) system.

The system is installed within a substation and connected at 33 kV to provide grid stability.

The project uses 25 MWh of batteries and is the second of a series of project of the same type.

Project

 Location: Langenreichenbach, Germany

Commissioning: June 2018

Plant information

- 16 MW/25 MWh frequency response battery system in Germany
- Serves for frequency regulation at the grid via demand power/storage supply and provision of reactive power

SMA System Technology

- 9 x SCS 1900 and 9 x MVPS 1900
- Plant Control and SCADA System
- Engineering, Technical Design, Consulting, Simulation and Sizing

St. Eustatius (NL Antilles)







Today the solar plant covers 23% of the island's total energy requirement. The main challenge was the grid stability due to fast power fluctuations related to cloud movement.

SMA Sunbelt integrated a Li-lon storage facility to absorb such fluctuations, provide energy shifting and frequency stability functionalities also at nighttime.

The observed solar fraction reaches 88% at midday.

Project

Dutch Caribbean Location: Island of St. Eustatius

Commissioning: 2016

Specific requirements: Exposure to salty air

and hurricanes, fast cloud movement

Plant information

Installed PV power: 1,89 MWp

Installed Storage: 1 MW, 570kWh

Diesel Capacity: 4 MVA

Annual energy yield: 3.200 MWh

2.240 to Reduction in CO2

Annual diesel savings: > 850.000 liters

SMA Sunbelt Energy GmbH

- System design, simulation and engineering
- Procurement and delivery of entire control and storage system
- Training
- Commissioning and consulting during operation

St. Eustatius (NL Antilles), Phase 2









An expansion of the first phase has been commissioned in 2017. The feature of the project is the diesel-off operation, which allows the island to switch off the generators during the day and run completely on the solar energy.

The system also included additional 2,15 MWp and 4,4 MW of grid forming battery inverters with 5,35 MWh of batteries

Project

• Location:

• Commissioning:

Dutch Caribbean Island of St. Eustatius October 2017

Plant information

• Installed PV power: 2,15 MWp (in Phase 2)

• Installed battery power: 4 MW/ 5357 kWh

• Diesel generator rating: 4 MVA

Renewable penetration: 47%

SMA System Technology

- SMA Fuel Save Controller
- 2 SMA Sunny Central Storage 2200 (grid forming)
- 2 SMA Sunny Central CP 1000 XT

French Polynesia











SMA Sunbelt has been contracted to provide a PV-Diesel-Battery plant on an Island in the French Polynesia.

The plant features the grid forming SMA battery inverters to allow diesel-off operation during the daytime. The project aims to achieve a renewable fraction of over 60% on a 24h basis.

The control and battery inverter system allows for grid forming and blackstart of diesel generators in the island.

Project

- Location:
- Commissioning:

French Polynesia August 2018

Plant information

- Installed PV power:
- Installed battery power:
- Installed battery storage:
- Diesel Generator:
- Renewable Fraction:

1,3 MW 2 MW 2,7 MWh 6X 160 kW

62%

SMA System Technology

- 1 SMA Sunny Central Storage 2200
- 16 Sunny Tripower 60
- 6 Sunny Tripower 25000TL-30
- 1 SMA designed battery container
- SMA Fuel Save Controller



