



Inverter technology for C&I storage and off-grid systems

Introduction VENSYS

VENSYS Group at a glance

**DEVELOPMENT
AND
LICENCE BUSINESS**

 **GOLDWIND**

 **ReGen
POWERTECH**



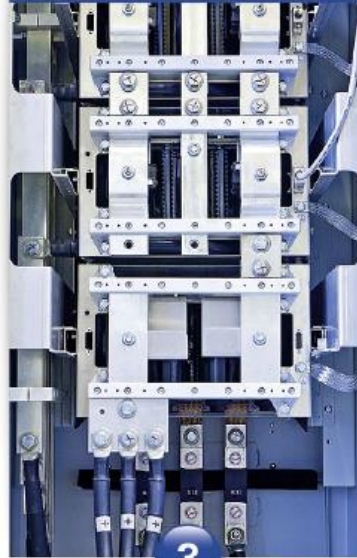
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**WIND POWER
PLANTS**
Production



2

**ELECTRIC
COMPONENTS**
Development+
production



3

**WIND FARM
DEVELOPMENT**
Project development

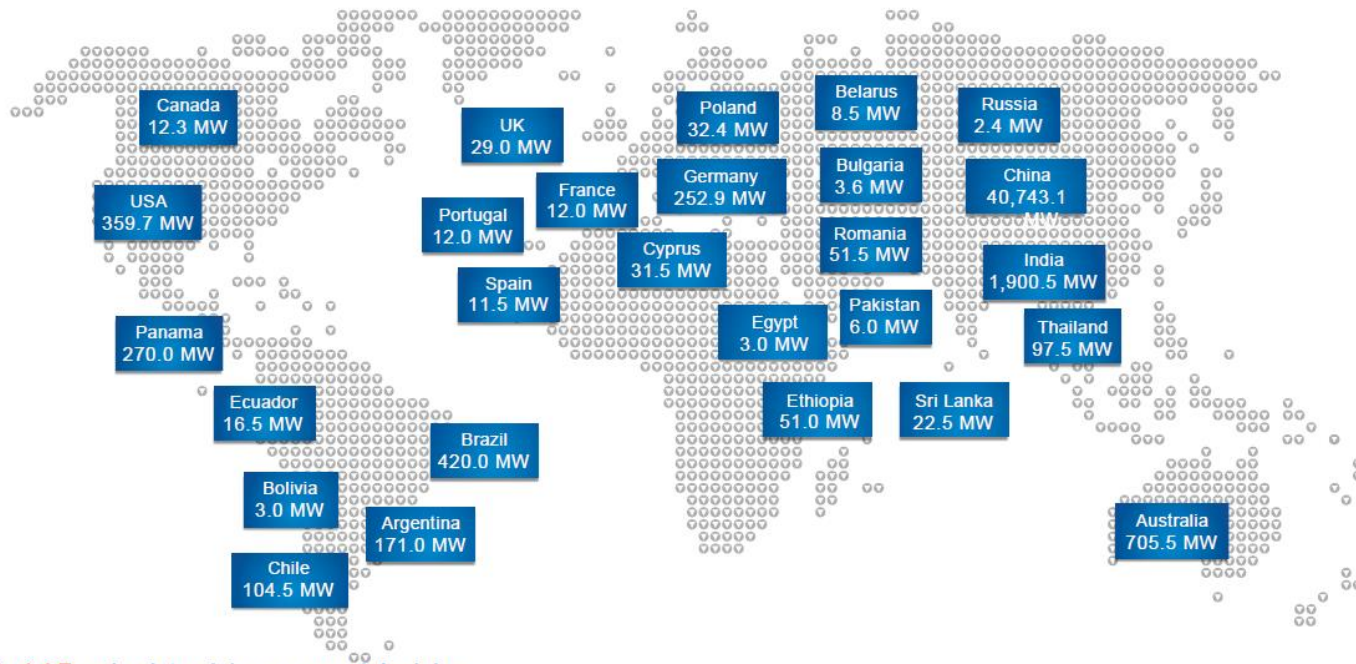


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Introduction VENSYS

References worldwide

More than **45,333.4 MW** installed with our direct drive wind turbine technology



24,445 wind turbines worldwide

As of December 2019

Introduction VENSYS

Locations



VENSYS Energy AG
Headquarter - Neunkirchen (GER)



VENSYS Elektrotechnik GmbH
Production (Electrotechnical) - Diepholz (GER)



VENSYS Energy AG
Production (WEC) - Neunkirchen (GER)



Eblades Technology SL.
Production (Blades) - Granada (ESP)

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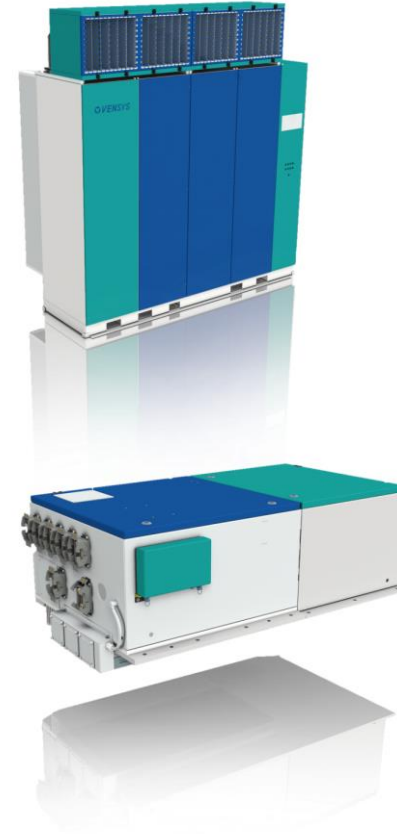
Products of VENSYS Elektrotechnik GmbH

VENSYS High Power Converters

- Modular construction: service friendly, quick repairs
- Grid code compliant
- Water or air cooled: suitable for demanding environments

VENSYS Pitch Systems

- Built by highly qualified technicians at VENSYS factory Germany
- Complete tests of performance and functionality by VENSYS engineering team
- Proven and tested more than 10,000 times

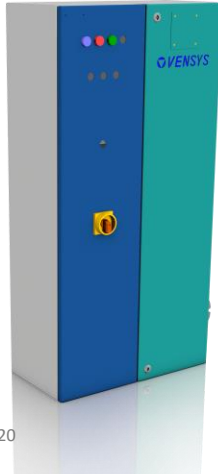


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Products of VENSYS Elektrotechnik GmbH

VENSYS Topbox

- Located in the nacelle
- Registers data of actuators and sensors:
 - Wind speed / direction
 - Acceleration
 - Rotary speed / Position of nacelle
- Proven and tested a 1000 times



VENCON – VENSYS Hybrid Converter

- Multifunctional converter / inverter
- Island grid converter
- Easy maintenance
- Low noise level
- Medium-voltage certificate



Introduction to VENCON – VENSYS Hybrid Converter

Product fact sheet

Main Components:

- Cabinet
- Power modules (AC & DC power module)
- DC bus bar
- Control mounting plate
- DC mounting plate
- AC mounting plate
- Choke
- Display

Compact design

- Dimensions: 950 kg @ 1208 x 608 x 2202 mm
- Ideal for container integration since free standing
- Optional outdoor housing

Operating temperature: -20 °C to +40 °C (upto +50 °C with derating)

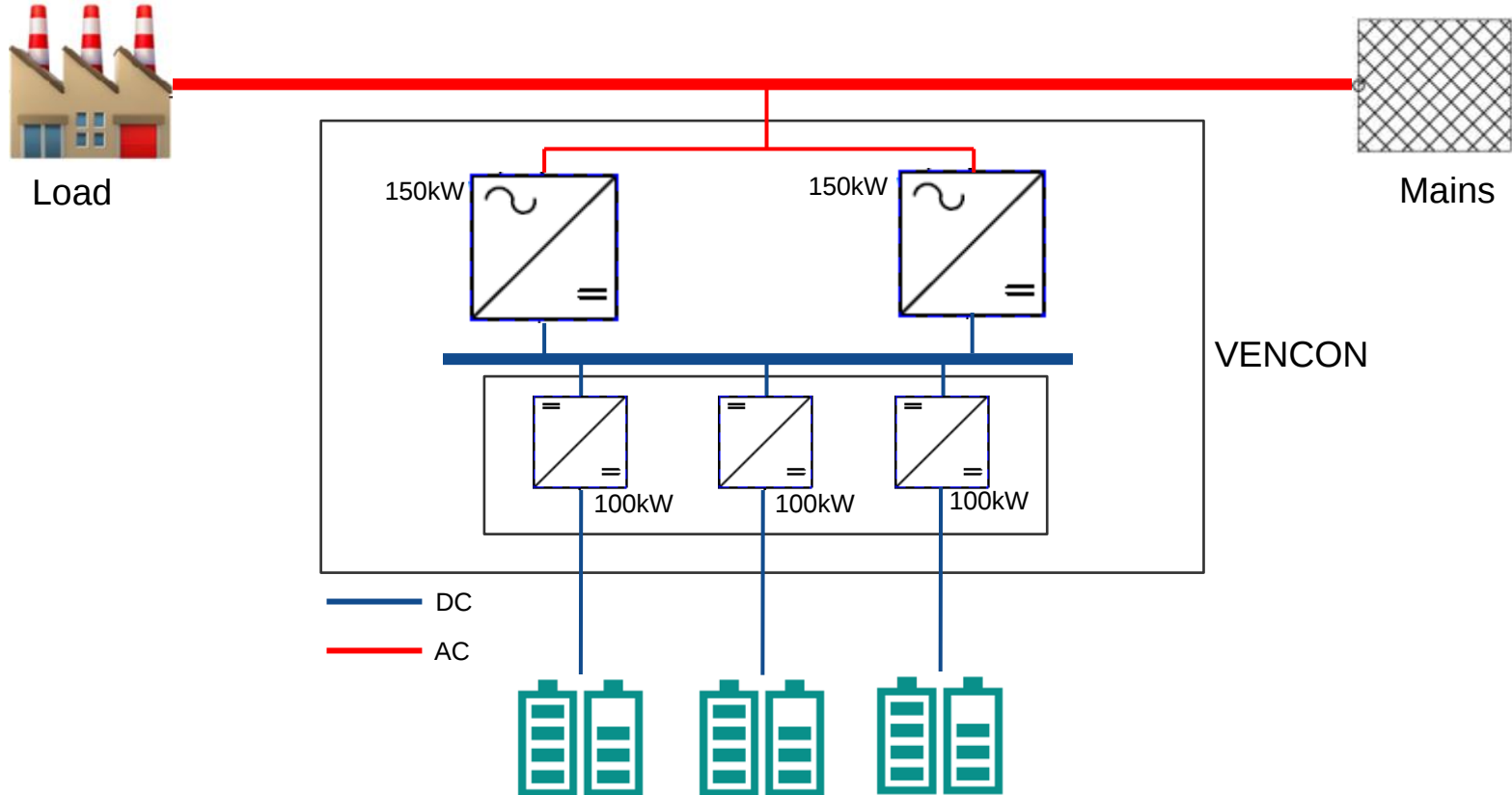
Cable entry at the bottom

Air Cooling



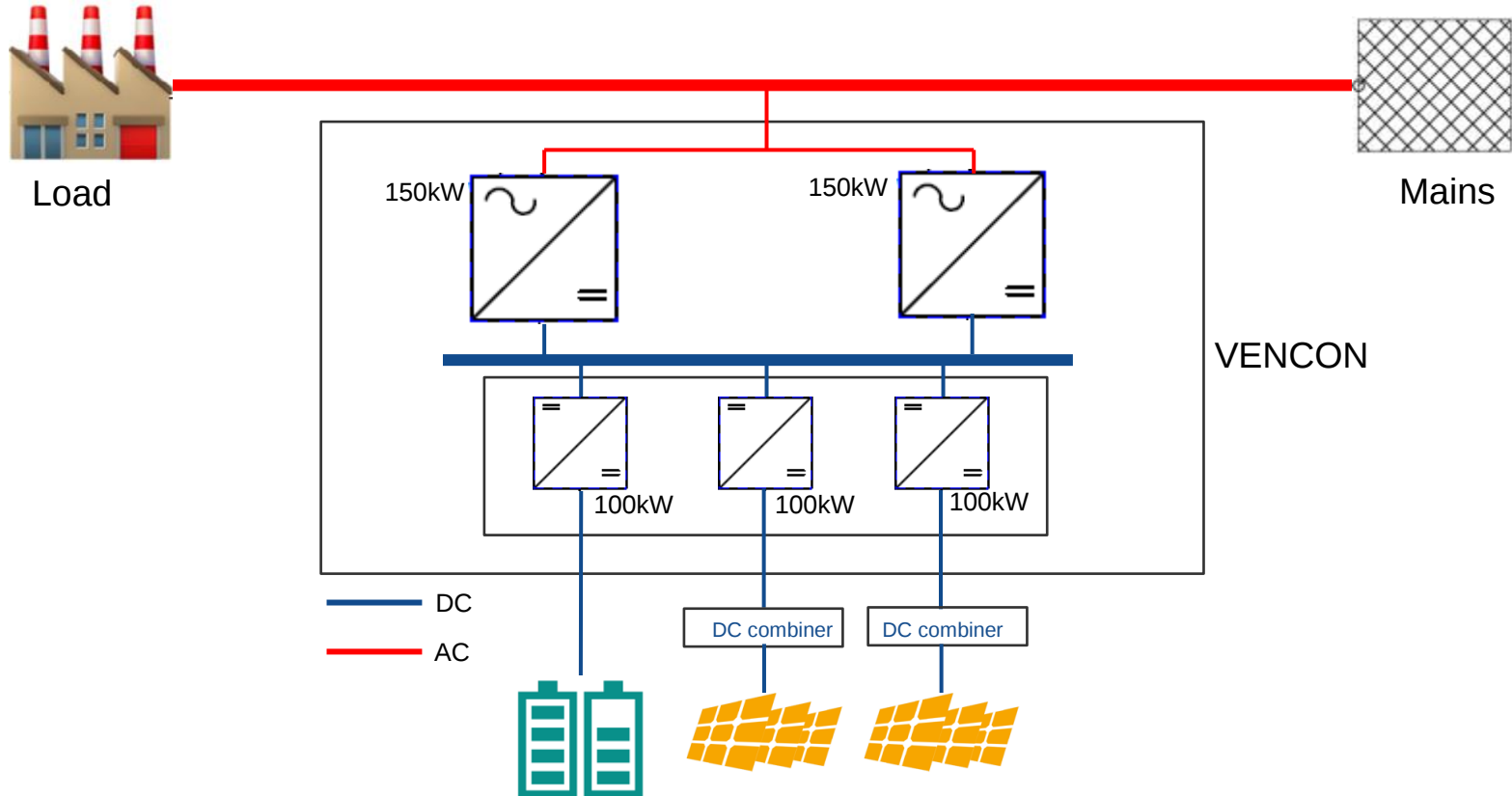
Introduction to VENCON – VENSYS Hybrid Converter

VENCON as battery inverter for peak load shaving



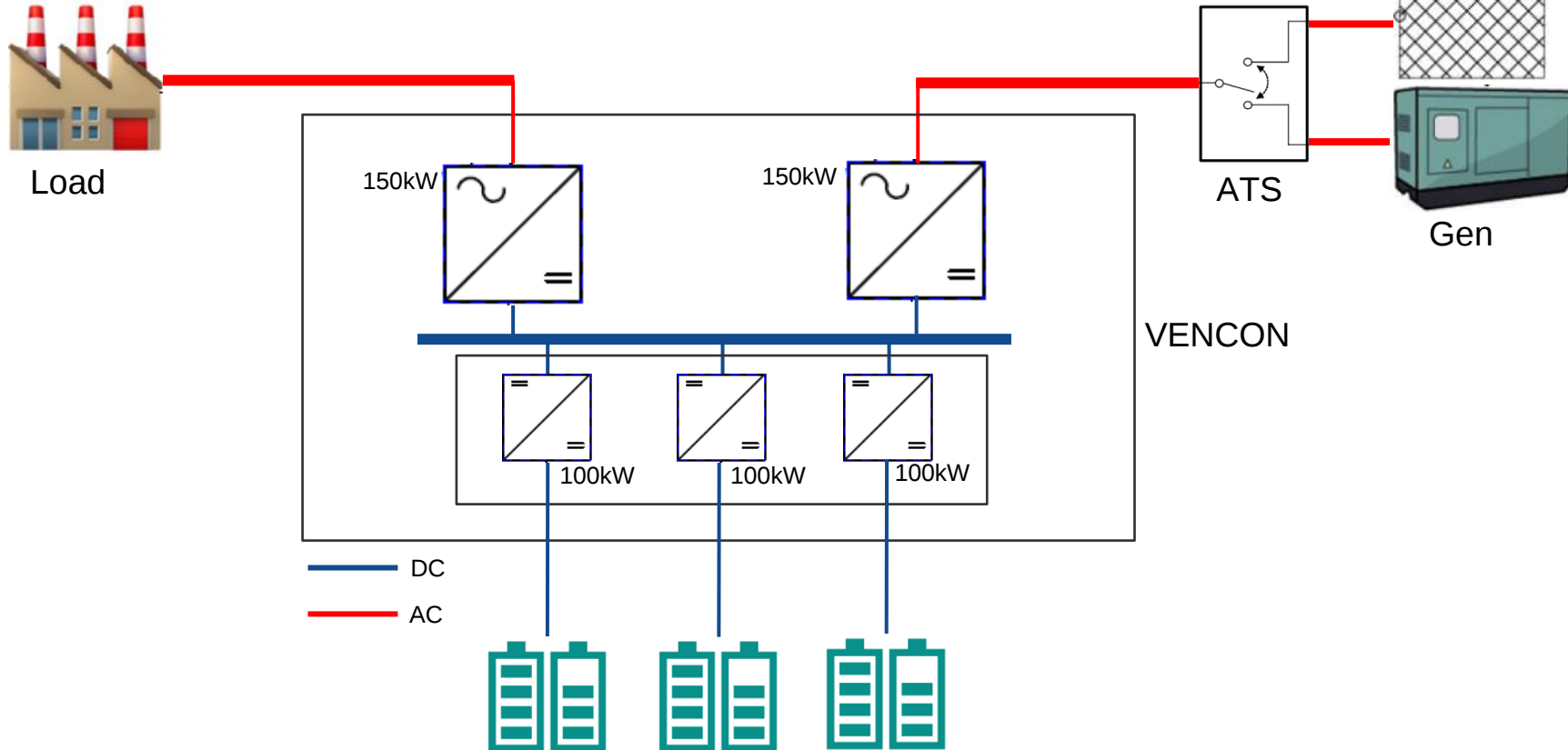
Introduction to VENCON – VENSYS Hybrid Converter

VENCON as hybrid inverter for self-consumption & peak load shaving



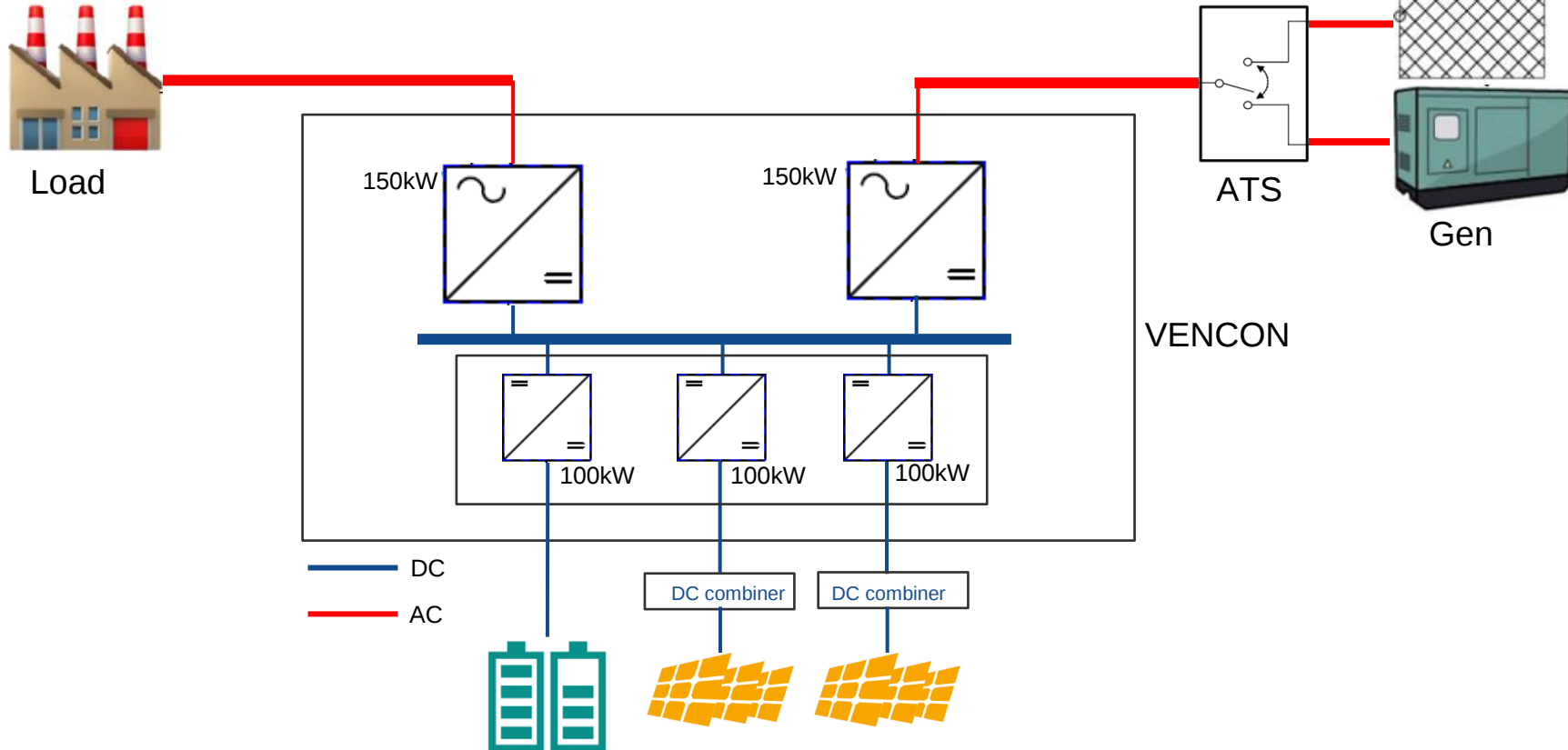
Introduction to VENCON – VENSYS Hybrid Converter

VENCON as battery inverter for UPS & peak load shaving



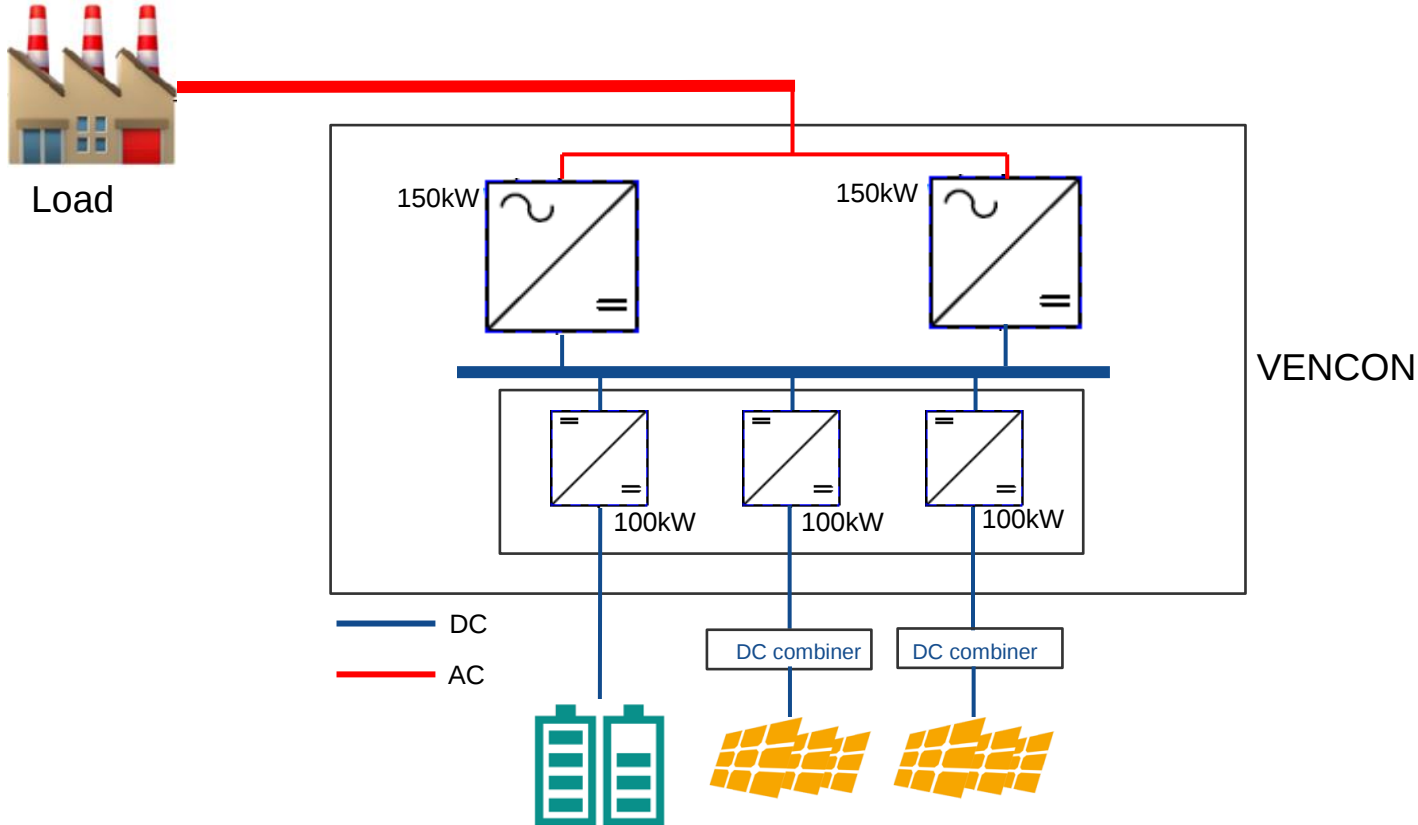
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VENCON as hybrid inverter for UPS with self-consumpt. & peak load shaving



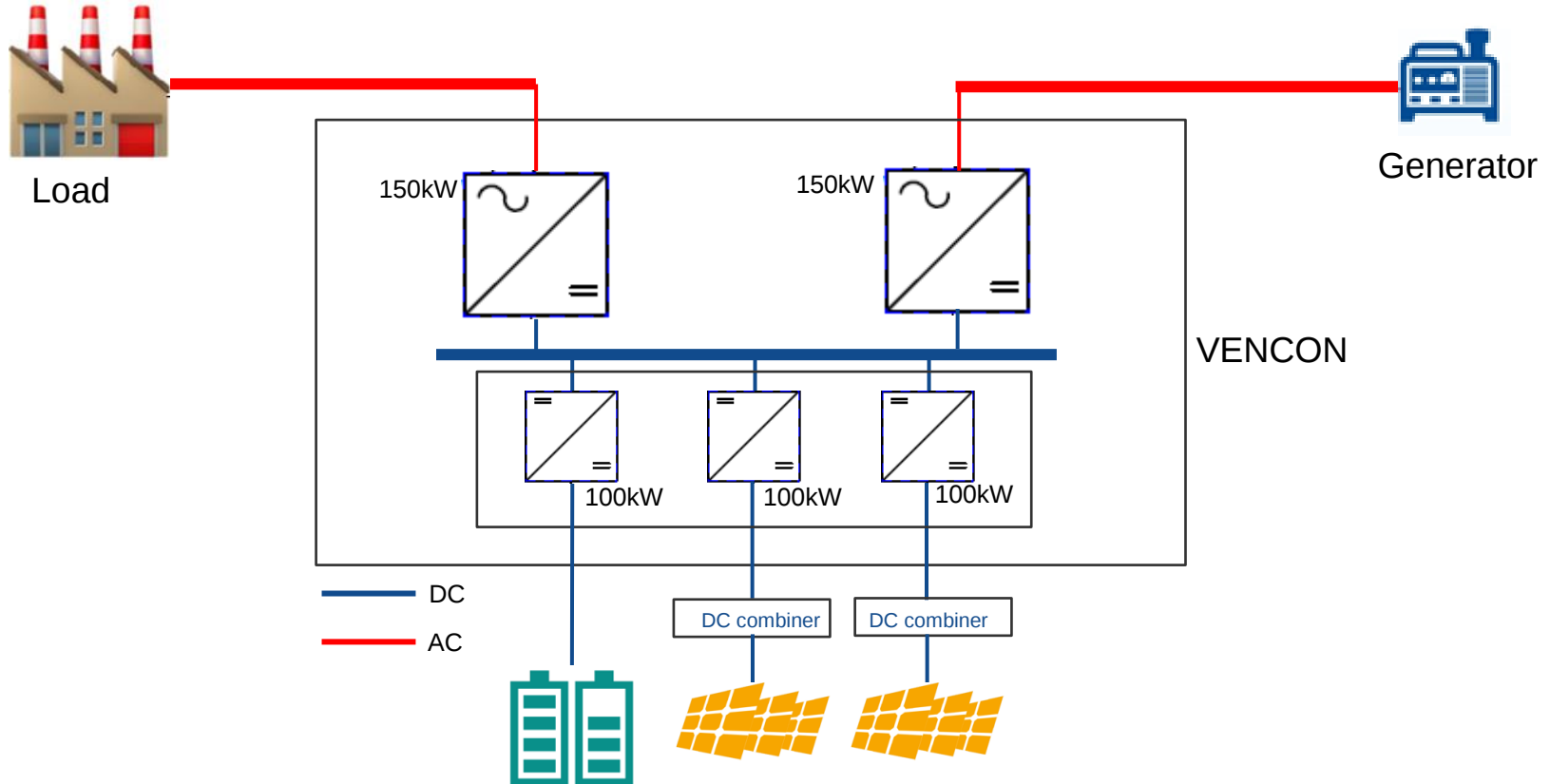
Introduction to VENCON – VENSYS Hybrid Converter

Off-grid applications with storage – solar-battery hybrid inverter for up to 300 kW load



Introduction to VENCON – VENSYS Hybrid Converter

Off-grid applications with storage – solar-battery-diesel hybrid inverter for up to 150 kW load





Thanks for your attention!

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