Headquarter

ca. 45.000m² manufacturing and office space

Close to you - globally

More than 25 subsidiaries offering sales, service and local production

Benning facility in Russia

Domodedovo, Moscow region

JSC «Benning Power Electronics» (Russia)

- Founded in 1999
- Number of employers: 75
- Management and administration: 7
- Engineering and after sales: 12
- Sales and marketing: 10
- Production: 21
- Production square: 4500m2
- Partners in Russian Federation

List of audits by international companies

Last 4 years
Russian facility

- 2016 – General Electric, manufacturing of wind turbine inverters
- 2016 – Bureau Veritas, on behalf of Sakhalin Energy
- 2018 – Technimont (with GAZPROM)
- 2018 – CHIYODA (Japan)
- 2019 – Linde AG (Germany)

Small but critically important equipment for each part of WPP

Offshore WPP example

BENNING
World Class Power Solutions

- More than 70 years experience
- High reliability systems
- Flexible for any kind of installation
- Upgraded for a harsh climatic conditions
- Low maintenance

Customers in Russia

Reference list in Wind Power Plants

Reference List Offshore Wind Activities

Windpark	application HVDC/ sub station or wind mill	used technology	Delivery
Alpha Ventus	offshore substation	thyristor controlled THYROTRONIC	2009
Bard 1	offshore substation		
Baltic 1	offshore substation	thyristor controlled THYROTRONIC inverter INVERTRONIC	2010
Veja Mate	offshore substation	thyristor controlled THYROTRONIC inverter INVERTRONIC	2010
several Tennet Offshore	super vision station	switched mode TEBECHOP 3000i switch mode INVERTRONIC compact	2012
DAN TYSK	80 windmills	switched mode TEBECHOP 3000i	2012/2013

Reference list in Wind Power Plants

Sandbank	80 windmills	switched mode TEBECHOP 3000i	2015
Dolwin 1 +2	onshore substation	switch mode TEBECHOP 3000i Invertronic-Compact inverter systems	2014
Buitendiek	onshore substation	switch mode TEBECHOP 3000i	2014
Burbo Bank	offshore substation	switch mode TEBECHOP 3000i Invertronic-Compact inverter systems	2015
GEMINI Zeeenergie	offshore substation	Enertronic-I, industrial UPS switch mode TEBECHOP 3000i 110Vdc	2015
Luchterduinen	onshore substation	Enertronic-Modular, modular UPS	2014
Godewind I	offshore substation	switch mode TEBECHOP 3000i 110Vdc Enertronic-Modular, modular UPS 10Kva	2014
Godewind II	offshore substation	switch mode TEBECHOP 3000i 110Vdc Enertronic-Modular, modular UPS 10Kva	2014

Reference list in Wind Power Plants

Amrum Bank	offshore 80 x windmills	switch mode TEBECHOP 3000i 24Vdc	2013
Walney DRC Windfarm	onshore substation Static Var Compensation	Thyrotronic 108 V 110 A	2016
Arkona Becken	60 windmills	switched mode TEBECHOP 3000i	2016
Buitendiek	offshore substation	switch mode TEBECHOP 3000i 220Vdc switch mode TEBECHOP 3000i 48Vdc Enertronic-I, industrial UPS	2014
GEMINI Buitengaats	offshore substation	Enertronic-I, industrial UPS switch mode TEBECHOP 3000i 110Vdc	2015
Luchterduinen	offshore substation	Enertronic-Modular, modular UPS 20Kva switch mode TEBECHOP 3000i 110Vdc	2014
Humber	offshore substation	switch mode TEBECHOP 3000i 110Vdc Enertronic-Modular, modular UPS 10Kva	2014

Reference list in Wind Power Plants

Duddon Sands	offshore substation	switch mode TEBECHOP 3000i 110Vdc	2012
AmrumBank	offshore substation	switch mode TEBECHOP 3000i 220Vdc switch mode TEBECHOP 3000i 24Vdc Enertronic-Modular, modular UPS 10Kva	2013
GEMINI	onshore substation	Enertronic-I, industrial UPS switch mode TEBECHOP 3000i 110Vdc	2015
Luchterduinen	onshore substation	Enertronic-Modular, modular UPS 10Kva	2014
Racebank 1	offshore substation	Enertronic-I, industrial UPS switch mode TEBECHOP 13500 110Vdc	2015
Racebank 2	offshore substation	Enertronic-I, industrial UPS switch mode TEBECHOP 13500 110Vdc	2015
Walney 3	offshore substation	Enertronic-I, industrial UPS switch mode TEBECHOP 13500 110Vdc	2015

Reference list in Wind Power Plants

Walney 4	offshore substation	Enertronic-I, industrial UPS switch mode TEBECHOP 13500 110Vdc	2015
Burbobank extension	offshore substation	Enertronic-I, industrial UPS switch mode TEBECHOP 13500 110Vdc	2015
Veja Mate	offshore substation	Enertronic-Modular, modular UPS 20Kva switch mode TEBECHOP 3000i 220Vdc	2015
Merkur	offshore substation	Enertronic-Modular industrial UPS with 20kVA UPS modules Tebechop HDI3000, 220VDC	2017
Hohe See	offshore substation	UPS Enertronic-I, industrial UPS, 400VDC Tebechop 13500SE, 220VDC	2017
Norther	offshore substation	Enertronic-Modular-SE with 20kW UPS modules Tebechop HDI3000, 110VDC	2018
Borselle Alpha	offshore substation	Enertronic-I, industrial UPS Thyrotronic TDG-12, Thyristor Rectifier 108VDC	2018
Kriegers Flak A / B	offshore substation	Tebechop HDI3000, 220VDC Invertronic Compact	2017

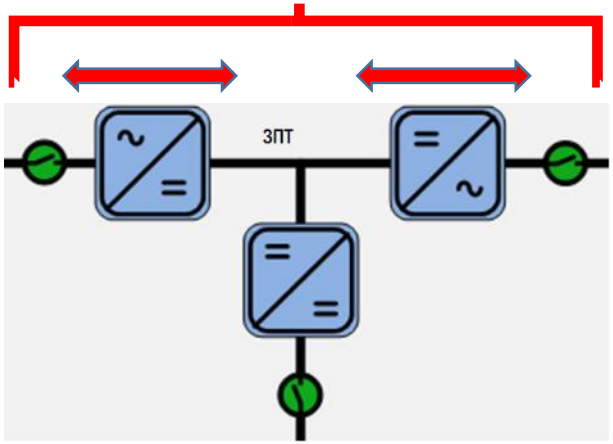
Reference list in Wind Power Plants

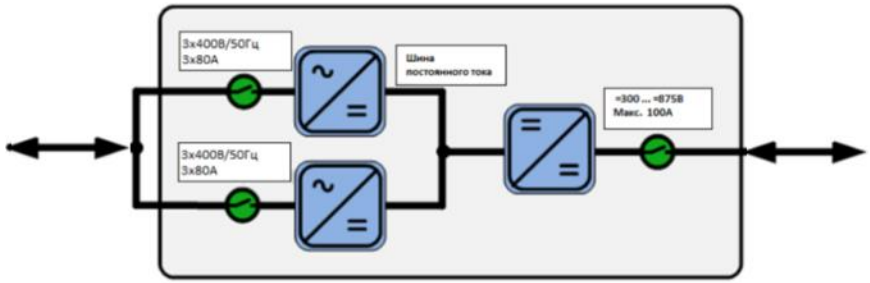
WPP in Russia (2019-2020)

- ✓ Kamensko-Krasnosulinskaya WPP 1
- ✓ Kamensko-Krasnosulinskaya WPP 2
- ✓ Gukovo WPP
- ✓ Solynskaya WPP
- ✓ Tselinskaya WPP

ESS based on proven reliable technology

From high reliable industrial UPS **to** **cost effective ESS**

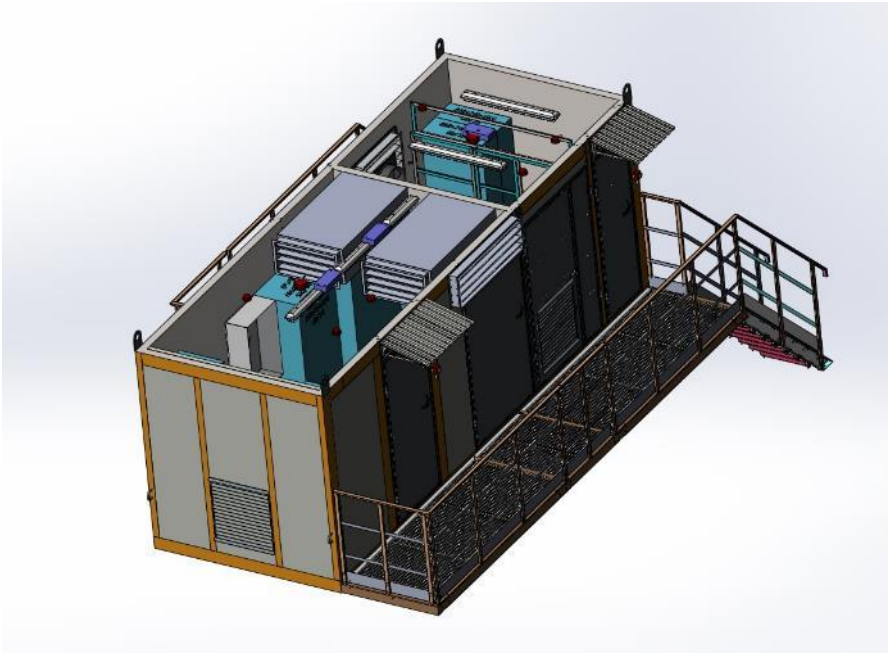




Energy Storage System

Power scaling

highest availability



Thank you!

Thank you for attention!

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