

We design and plan the electrical systems of wind farms (WF), PV farms and storage systems (battery storage systems, pumped storage systems etc.) of various sizes and connected to either medium voltage or high voltage (110kV) networks. Our experience dates to the begin of the modern generation from renewable energies in Germany.

Our core competencies include the planning of transfer substations, transformer substations, cable routes and the increasingly complex control and communications systems. We place the highest importance on accuracy, cost effectiveness and compliance with all relevant standards and guidelines (including IEC standards, national guidelines and the requirements of network operators).

Our services in the area of electrical planning include:

- Network studies to verify the suitability of the assigned connection point
- Concept design, basic design, detailed design
- Compiling equipment lists and budgets
- Compiling technical specifications for transfer substations, transformer substations and cables
- Tendering and support with comparison and awarding of tenders
- Construction supervision
- Support during commissioning
- Acceptance

Should something not work as expected, we execute on-site incident investigations.

A selection of projects that we executed since 2013 is shown in the table below:

Project name	Power [MW]	Voltage [kV]	Year commissioned	Network operator
Battery storage Bordesholm	10	20	2019	VSB Bordesholm
WP Sembten	14,4	20	2019	mitnetz
WP Büttenbuch Erweiterung	3,6	20	2019	NGO
WEA Werne-Ost	4,2	10	2019	Westnetz
WP Roteberg	17,25	20	2019	Energienetz Mitte
WP Feistelberg	10,8	20	2019	Bayernwerk
Barkow V	3,6	20	2018	Energienetz Mitte
WP Hammelwarder Moor	10,2	20	2018	EWE Netz
WP Dedensen-Seelze	3,3	20	2018	avacon
WP Sien	7,2	20	2018	Westnetz
WP Vreden-Ammeloe	15	110	2018	Westnetz
WP Lüdinghausen-Aldenhövel	9	30	2018	Westnetz
WP Beckum/Werse	11,4	10	2018	Westnetz
WEA Essel / Oer-Erkenschwick	3,2	10	2018	Westnetz
WP Almsicker-Loh / Stadtlohn	16,8	110	2018	Westnetz
WEA Teltow / Großbeeren	3,5	10	2018	e.dis
WP Reinholterode / Roter Berg	20,7	20	2018	Energienetz Mitte
WP Rahrbach	4,8	10	2018	Westnetz
WP Wadersloh-Schmiesbach	6	30	2018	Westnetz
WP Wadersloh-Klärwerk	3	20	2018	Westnetz
WP Legden-Isingort	9,6	10	2018	Westnetz
WP Giersberg-Ost Langwedel	15,3	20	2018	EWE Netz
WP Bodensee 2. BA	6,7	20	2018	ENM

WP Hartmannsdorf	7,2	20	2018	mitnetz
WP Bergheim Fischbachhöhe	6	20	2018	Westnetz
WP Groß Welle	4,7	20	2017	e.dis
WP Schwarzer Berg	3,5	20	2017	e.dis
WP Klein-Woltersdorf	2,4	20	2017	e.dis
WP Bürgerwald	9,6	20	2017	Bayernwerk
WP Sabow	2,4	20	2017	e.dis
WP Gemünden	16,8	20	2017	EWf
WP Borne VIII	6,6	20	2017	avacon
WP Niederzier	3,2	20	2017	STAWAG
WP Zöthen	6,6	20	2017	TEN
WP Danna-E	6,9	20	2017	e.dis
WP Beedenbostel	12	110	2017	avacon
WP Isingort	9,6	10	2017	Westnetz
WP Brachtal-Spielberg	10,4	20	2017	Kreiswerke Main-Kinzig
WP Westerbüttel	15	20	2017	SH-Netz
WP Rechenberg	9	110	2017	Netze BW
WP Hummelsweiler	12	110	2017	Netze BW
WP Ellwanger-Berge	30	110	2017	Netze BW
WP Lutheran	3,5	20	2017	WEMAG
WP Garlipp	10,4	30	2017	avacon
WP Benhausen	13,8	20	2017	Westfalen-Weser Netz
WP Winterborn	6,6	20	2017	Pfalzwerke
WP Radegast II	6,9	20	2017	WEMAG
WP Straelen	3,45	20	2017	NGN
WP Freckenhorst	2,3	20	2017	Westnetz
WP Neuenbeken	3,3	20	2017	Westfalen-Weser Netz
WP Vreden-Doemern	12	30	2017	Westnetz
WP Vreden-Lünten	6,4	10	2017	SVS
WP Stockelsdorf	15	30	2017	SH Netz
WP Cashagen	15	30	2017	SH Netz
WP Dissau	12	30	2017	SH Netz
WP Breitendeich	6,4	20	2017	Westnetz
WP Debstedt	10,4	20	2017	EWE Netz
WP Grevenbroich	7,6	20	2017	NEW Netz
WP Woltersdorf	2,4	15	2017	e.dis
WP Kreuzau-Steinkaul	5,6	20	2017	Westnetz
WP Wachtendonk-Wankum	2,5	10	2017	SWK Netz
WP Gischberg	6,4	10 + 20	2017	energis
PV Park Lough Road Cluster	23		2016	
WP Liesten (Erweiterung)	9,9	110	2016	avacon
WP Creußen	4,8	20	2016	Bayernwerk
WP Bunde/Heerenweg	20,4	110	2016	avacon
WP Büttenbuch/Frickehofer Höhe	7,2	20	2016	ODR

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WP Hüselitz / Nahrstedt-Süd	112,2	110	2016	avacon
WP Hüselitz / Nahrstedt-Nord	26,4	110	2016	avacon
WP Jettingen-Scheppach	19,2	20	2016	LEW
WP Delbrück	2,05	20	2016	Westfalen-Weser Netz
WP Parchim	113	110	2016	WEMAG
WP Baruth Groß Ziescht	9,9	20	2016	mitnetz
WP Schenkendöbern	6,6	20	2016	mitnetz
WP Lieskau	68,775	110	2016	mitnetz
WP Lausitz	35,175	110	2016	mitnetz
WP Parey	18,8	20	2016	avacon
WP Alfeld II	2,4	20	2016	MDN
WP Ravenstein	10	20	2016	Netze BW
WP Velburg	12	20	2016	Bayernwerk
WP Sindersdorf	5,5	20	2016	MDN
WP Südliche Ortenau	19,25	20	2016	Netze BW
WP Neuzirkendorf	2,4	20	2016	Bayernwerk
WP Neunburg vorm Wald	2,4	20	2016	Bayernwerk
WP Deindorf	4,8	20	2016	Bayernwerk
WP Groß-Chüden	10,35	30	2016	avacon
WP Möglenz X	3,45	110	2016	mitnetz
WP Bodensee	3,45	20	2016	Energienetz Mitte
WP Kölsa 1. BA	3,45	20	2016	mitnetz
WP Wahlsdorf	6,9	20	2016	e.dis
WP Auras-Süd	3,45	20	2016	mitnetz
WP Elsterwerda III	3,45	15	2016	enso
WP Barkow II	16,8	20	2016	WEMAG
WP Klein-Leine III	10,35	20	2016	mitnetz
WP Lieskau III	27,6	15	2016	mitnetz
WP Alpen-Süd	2,05	10	2016	Westnetz
WP Blankenheim	2,3	20	2016	ENE
WP Alsdorf	4,6	10	2016	Regionetz
WP Gera-Rusitz	2,3	20	2016	Gera-Netz
WP Lingelbach	21,6	110	2016	avacon
WP Pronstorf/Obernwohldede 1	18,3	30	2015	SH Netz
WP Becklem	2,4	10	2015	Westnetz
WP Reken	2,4	10	2015	Westnetz
WP Marl-Frentrop	2,4	10	2015	Westnetz
WP Kilsheim	12	20	2015	Netze BW
WP Hohenzellig-Konradsreuth	19,2	20	2015	Bayernwerk
WP Bucheck	9,6	20	2015	Bayernwerk
WP Kriegswiese-Stammbach	16,45	20	2015	Bayernwerk
WP Bottrop-Kirchhellen I	2,4	10	2015	ELE
WP Bottrop-Kirchhellen II	2,4	10	2015	ELE
WP Bottrop-Kirchhellen III	2,4	10	2015	ELE

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WP Műnnerstadt	12,5	110	2015	Bayernwerk
WP Westhillbeck	9	10	2015	Stadtwerke
WP Voerde	4,6	10	2015	Westnetz
WP Alpen-Drűpt	2,35	10	2015	Westnetz
WP Wallroth	27,675	110	2015	avacon
WP Biehnes	6	110	2015	avacon
WP Poppenlauer II	7,2	110	2015	Bayernwerk
WP Ramsthal	7,5	110	2015	Bayernwerk
WP Windheim II	4,8	110	2015	Bayernwerk
WP Markendorf	3,45	20	2015	e.dis
WP Appeln	11,4	20	2015	EWE Netz
WP Hűrth	8,55	20	2015	Westnetz
WP Rurich	4,1	20	2015	NEW Netz
WP Linnich	3,17	20	2015	Regionetz
WP Lunestedt	35,75	110	2015	E.ON
WP Uthlede	33	110	2015	E.ON
WP Lindenberg	12	20	2015	E.ON
WP Straelen	4,1	10	2015	SWK Netz
WP Frauental-Creglingen	2	20	2015	Main-Donau Netz
WP Bergbossendorf	6,2	10	2015	SW Haltern
WP Bergbossendorf II	2,05	10	2015	SW Haltern
WP Engelgau	2,3	20	2015	Ene
WP Schenkelberg	11,75	20	2015	Westnetz
WP Vielitz	4,8	20	2015	Bayernwerk
WP Altertheim II	2,4	20	2015	Bayernwerk
WP Buchschwabac h	2,4	20	2015	Netze BW
WP Hoher Weg	4,8	20	2015	Bayernwerk
Canworthy Water PV farm	26		2014	
Trench Farm	7,5		2014	
Outwood farm	16		2014	
RAF Coltishall PV 40	16		2014	
WP Jűbek	17,05	20	2014	SH-Netz AG
WP Heppdiel	14,4	20	2014	E.ON Bayern AG
WP Schnaittenbach	2,4	20	2014	E.ON Bayern AG
WP Zűlpich	19,25	110	2014	Rhein-Ruhr Verteilnetz GmbH
WP Wittgeeste	17	20	2014	EWE Netz GmbH
WP Kűnigstein	4,8	20	2014	E.ON Bayern AG
WP Hemmerfeld	6,15	20	2014	SH-Netz AG
WP Neunkirchen	4,8	20	2014	SW Wertheim GmbH
WP Maűsbach	12	20	2014	Bayernwerk AG
WP Titz	4,1	20	2014	Regionetz GmbH
WP Straelen	4,1	20	2014	Westnetz GmbH
WP Debstedt	18	20	2014	EWE Netz GmbH
WP Uthlede	33	110	2014	E.ON Netz GmbH

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WP Lunestedt	35,75	110	2014	E.ON Netz GmbH
WP Krempel	13,5	20	2014	EWE Netz GmbH
WP Lindenberg	12	20	2014	E.ON Mitte AG
WP Vettweiß	15	20	2014	Rhein-Ruhr Verteilnetz GmbH
WP Linnich	3,2	20	2014	Regionetz GmbH
WP Hürth	7,5	20	2014	Westnetz GmbH
WP Massenhausen	4,9	20	2014	Energie Waldeck-Frankenberg GmbH
WP Rurich	4,1	20	2014	NEW Netz GmbH