



GRID CONNECTION

GRID CONNECTION IS ONE OF THE KEY PREREQUISITES FOR SUCCESSFUL PROJECT REALISATION. THE REQUIREMENTS FOR CONNECTING TO THE PUBLIC ELECTRICITY GRID ARE BECOMING EVER MORE RIGOROUS, WITH GRID OPERATIONS REQUIRING COMPLIANCE WITH EXTENSIVE CONNECTION CONDITIONS.



Foto: John_Kelly istockphoto.com

REFERENCE PROJECTS

14 MW wind farm

Substation removed
Σ savings approx.
€600,000

9 MW wind farm

Cable route shortened
by approx. 5.2 km
Σ savings
approx. €400,000

750 kW PV plant

Cable route shortened
by approx. 3 km
Σ savings
approx. €200,000

Single 3.45 MW wind turbine in operation

Cable route 10 km
too long
Damages paid
€1.2 m

GRID CONNECTION COORDINATION

We can handle some or all of your grid connection processes for you.

- Identifying a list of suitable grid operators
- Collecting and checking grid connection approvals, incl. the relevant grid data
- Recommendation on how to proceed; further grid connection optimisation where necessary
- Handling of communications with the grid operator
- Managing expiry dates and extending grid connection approvals

GRID CONNECTION OPTIMISATION

Exercise the rights granted to you by the German Renewable Energy Sources Act (EEG) and find out more about the grid connection point you have been allocated – a better connection is often available. We can handle this by carrying out our own grid compatibility test and acting as your expert liaison to your grid operator.

- Inspection of the allocated grid connection point and potential alternatives
- Grid calculations conducted using DigSILENT PowerFactory
- Overall economic cost comparison for potential grid connection points

- Negotiating the grid connection situation with your grid operator
- Review and negotiation of grid connection and other grid-related contracts
- Assistance with claims for damages levelled against your grid operator

GRID CONNECTION PLANNING

We will supply a specially tailored solution for connecting your system to the grid. During the draft planning phase, we will define the perfect connection concept with reliable information for your profitability analysis. During the execution planning phase, we will implement this concept professionally and systematically right up to the successful commissioning of your system.

- Draft and execution planning for the electrical infrastructure with complex load flow calculation
- Calculation of electrical loss and economic optimisation of electrical equipment (cables, substations, etc.)
- Route planning and support with land securing
- Obtaining the required approvals
- Call for and awarding of tender for components and sub-contracted work
- Coordination of system certification
- Construction management and monitoring, plus assistance during commissioning