



HVDC System Engineer

TenneT is growing fast to realize its strategic ambitions. We play a leading role in driving the energy transition. We are looking for a passionate **Power Systems Engineer** at our location in **Arnhem** who will contribute to this and that might be you?

Your contribution to TenneT

In this role you will be responsible to plan multiterminal DC grids to achieve the target grid and contribute to the realisation of the European energy transition.

Responsibilities:

- Carrying out DC-side steady-state design and planning studies for the design and specification of the main components of multi-terminal DC networks.
- Carrying out DC-side transient design and planning studies to determine functional systemic requirements and design criteria for the design of the main components of a multi-terminal HVDC network.
- Carrying out DC-side resonance and interaction studies in the time and frequency domain.
- Development and coordination of integration and design principles for multiterminal DC networks - Transfer of relevant findings into real HVDC projects.
- Cross unit coordination of specific requirements for system integration and expandability of multi-terminal DC networks and hub concepts, including special requirements for multi-vendor solutions.
- Timely transfer of findings into functional requirements and usability in real multiterminal DC networks (DC-HUB concept).
- Utilisation of the findings from international / national studies for the analysis and further development of hybrid AC-DC network structures with a focus on their expandability.

Your profile and background

- Successfully completed studies in electrical engineering, preferably with a focus on electrical power engineering.
- Experience with network calculation tools, ideally PSCAD and PowerFactory.
- Professional experience in carrying out steady-state and transient basic design studies for the design of the main components of HVDC systems.
- In-depth knowledge of HVDC systems and VSC MMC technology.
- Proven ability to solve complex technical problems.
- Structured approach to work, strong quality awareness.
- High degree of creativity and initiative.
- Fluent Dutch and English, both written and spoken.
- Willingness to travel on business.

Additional information

- The weekly working time is 40 hours.
- The position is unlimited.
- Job interviews for this position will be (partly) in English. Please send us your application document in English as well, included a motivation letter.

Our offer



We are family friendly and flexible



Health - your basis



Modern working environment



Attractive remuneration and social benefits



Personal development

Our recruiting process

In our online-application-form you can apply within only some minutes as long as this job is posted. Afterwards we screen your application and get back to you as soon as possible.

For further questions regarding the recruiting process please contact:
Danijel Miletic
People | Talent Acquisition
06 - 41 18 21 66

For questions relating to the position please contact the hiring manager:
Roald de Graaff | Lead ESP-GP-EHV
Roald.de.Graaff@tennet.eu

This will be our challenge

Energy System Planning is a future-oriented unit, optimized to react to fast-changing external conditions. We develop a vision for a climate-neutral energy system of the future and how our onshore/offshore electricity system can adapt to these challenges in the smartest way.

TenneT is a leading European grid operator committed to a secure and reliable electricity supply - 24 hours a day, 365 days a year. We are shaping the energy transition for a sustainable energy future. As the first cross-border transmission system operator, we plan, build and operate an almost 24,500 kilometres long high and extra-high voltage grid in the Netherlands and Germany and are one of the largest investors in national and international electricity grids, on land and at sea. Every day, our 6,600 employees give their best and ensure with responsibility, courage and networking that more than 42 million end consumers can rely on a stable electricity supply.

Lighting the way ahead together

<https://careers.tennet.eu/careers/JobDetail/57818>