



Grid planning and Analysing Specialist

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 Grid planning and Analysing Specialist at our location Arnhem who will contribute to this and that might be you?

Your contribution to TenneT

In this challenging role you will be responsible for the determination of the EHV grid and system behaviour of the future, especially with respect to:

- Power flow and contingency analyses in a more and more stressed system;
- Development of calculation methodologies and tooling;
- Intelligent grid planning concepts in the light of Sector coupling (e.g. Power-to-gas, power-to-heat, etc.);
- The primary focus of this vacancy is on the development of grid planning standards and policies and the implementation of those.

You will contribute to network development plans and network expansion projects (G0) in the Dutch transmission system and you will participate on behalf of TenneT in national and international working groups and study programs.

Your profile and background

A relevant university degree, preferably in Electrical Power Engineering, Applied Physics or Mathematics and you have become acquainted with the modelling of electrical networks, especially in the requested field of expertise; Able to manage uncertainties, you can develop frameworks to estimate them, test these frameworks in discussions with others and then make well-founded statements about future expectations; Excellent project management skills to implement new grid planning policies and standards; Proven knowledge of the transmission system and you have experience in conducting power system studies; Proven knowledge and experience in performing power flow and RMS-type calculations; Open style of communication, actively discuss with your colleagues and know how to convince others with arguments; You are proactive, show initiative and you dare to explore new ways; Excellent writing skills in both Dutch and English.

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

Additional information

- As of 1 April 2025;
- The weekly working time is 40 hours;
- Type of contract is indefinite.

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. Our selection process consists of one onlinetest, one interview only.

For further questions regarding the recruiting process please contact:

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For questions relating to the position:

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electricity system can adapt to these challenges in the smartest way.

AI and more about TenneT

Since we use AI as part of our recruiting process, we would like to create transparency and clarity at this point. The AI serves exclusively as a supporting and recommending tool to make our processes even faster and more efficient. At no time are automated decisions made.

TenneT is a leading European grid operator. We are committed to providing a secure and reliable supply of electricity 24 hours a day, 365 days a year, while helping to drive the energy transition in our pursuit of a brighter energy future – more sustainable, reliable and affordable than ever before. In our role as the first cross-border Transmission System Operator (TSO) we design, build, maintain and operate over 25,000 kilometres of high-voltage electricity grid in the Netherlands and large parts of Germany, and facilitate the European energy market through our 17 interconnectors to neighbouring countries. We are one of the largest investors in national and international onshore and offshore electricity grids, with a turnover of EUR 9.2 billion and a total asset value of EUR 45 billion. Every day our 8,300 employees take ownership, show courage and make and maintain connections to ensure that the supply and demand of electricity is balanced for over 43 million people.

Lighting the way ahead together

<https://careers.tennet.eu/careers/JobDetail/92807>