



Operating Engineer – Electrical Auxiliary & Automation

How will you help power the Netherlands?

As an Operating Engineer – Electrical Auxiliary & Automation, you ensure our future offshore grid connection assets are delivered, commissioned and operated safely and efficiently. You translate operational needs into clear engineering requirements, shape processes, and contribute to operational readiness—so the Netherlands can rely on a stable, future-proof and sustainable energy system.

Your contribution to TenneT

Core responsibilities

•Operational readiness & engineering review

Guide design, commissioning, operations and maintenance considerations for electrical auxiliary systems and automation, safeguarding availability and long-term integrity.

•Data & documentation quality

Assess, enhance and safeguard documentation (from single-line diagrams to I/O lists and cause & effect matrices) to improve safety, traceability and maintenance performance.

•Improvement & optimization

Propose practical system and architecture improvements, capture lessons learned, and contribute to the continuous Operational Readiness Framework.

•Safety leadership

Promote a strong safety culture across on and offshore sites and interfaces (incl. energization controls, lock out/tag out, and test regimes).

Scope of systems (typical)

•**LV power distribution:** switchgear, MCCs, UPS, batteries, emergency/standby generators, earthing & bonding, lightning protection, power quality and protection coordination.

•**Auxiliary & building services:** lighting/ELV, small power, heat tracing, emergency lighting, cable systems & routing (EMC/segregation), cable sizing and derating.

•**Automation & control:** SCADA/ICSS, PLCs, HMI, historian, I/O, networks (Profinet/Modbus), hard wired ESD/F&G interfaces, loop checks, cause & effect validation.

•**Instrumentation & safety:** F&G detection loops, gas detection, UPS-backed critical circuits, interface to mechanical auxiliaries (e.g., Freshwater maker, HVAC, diesel gensets).

Additional Role Component: Site Inspector – Electrical Auxiliary & Automation (Singapore/Batam)

Your Role on the Yard

Additional information

TenneT gives you the opportunity to contribute to a sustainable energy future. Together with colleagues, partners, and stakeholders, you work on innovative solutions that enable the energy transition. You'll have room to develop your talents in an environment where your growth is a priority. We offer you:

- A permanent contract with a two-month probation period (40 hours per week)
- A salary in scale 8: €4.267 to €8.443 gross per month (based on 40 hours)
- A solid pension plan via ABP: we cover 70% of your contribution
- 43 vacation days per year
- Hybrid working, including travel allowance, internet reimbursement, and a home office allowance
- Wellbeing support, such as contributions to gym memberships or additional health insurance.
- Development opportunities through the TenneT Academy.
- At TenneT, we value initiative and give you the space to bring in new ideas. Together, we ensure the Netherlands stays in motion and is ready for the energy of tomorrow.

Together, we power the Netherlands! The position may get unpublished earlier, so don't hesitate to apply!

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 2 interviews.

During the construction, integration, and commissioning phase of our offshore grid connection assets in Singapore/Batam, you will take on the role of **Site Inspector – Electrical Auxiliary & Automation Systems**.

In this role, you work embedded within the project delivery team on the yard, while maintaining a direct functional reporting line to the **Operational Readiness (ORE) team in Arnhem** led by Sander Kuiper.

You act as the eyes and ears of the **Operational Readiness organization**, safeguarding Tennet's operational interests during construction and ensuring future assets can be safely, reliably and efficiently operated once taken into service. Your presence on site is essential for ensuring long term asset integrity, validating contractor deliverables, and enabling a smooth transition from project delivery to operations.

Key responsibilities on the yard

1) Represent Operational Readiness on site

- Serve as the primary ORE point of contact for electrical auxiliary and automation topics.
- Identify and escalate risks or deviations that could impact long term operability, maintainability, availability or safety and escalate these proactively within the project team on site and the ORE team in Arnhem.

2) Electrical & Automation verification

- Monitor installation quality and compliance for LV switchgear, MCCs, UPS/batteries, emergency/standby generators, lighting, heat tracing, earthing/bonding and cable systems (EMC/segregation).
- Perform structured walkdowns and verify against SLDs, schematics, wiring diagrams, loop drawings, cause & effect and vendor docs.
- Check maintainability and accessibility (e.g., functional segregation, clearances, lifting/handling, replaceability).

3) Commissioning readiness & testing

- Participate as ORE representative in MC/Pre Comm/Comm activities, HAT/SAT, energization checks, and punch listing for E&A scope.
- Validate loop checks, cause & effect testing, protection settings philosophy (coordination at a high level), and UPS/generator functional tests aligned with operational needs.
- Ensure lessons learned are captured and fed back to ORE.

4) O&M documentation review & status tracking

- Review and track the status of O&M manuals, as built SLDs, cable schedules, I/O lists, cause & effect matrices, instrument index, maintenance plans, and spares lists.
- Validate newly written maintenance and test procedures from EPC/vendors for safety, practicality and compliance; ensure traceability and completeness at handover.

5) Assurance, reporting & risk mitigation

- Deliver clear reports to the Arnhem ORE team: progress, risks, deviations, mitigations, and recommended actions.
- Raise, track and drive closure of punch items for E&A scope.

6) Coordination & communication

- Work daily with project engineering, commissioning leads, HSE, package vendors, and yard teams.
- Facilitate alignment meetings between the yard project team and ORE Arnhem, ensuring shared visibility on status and priorities.
- Contribute to spare parts philosophy validation (critical spares, commissioning spares, shelf life items, interchangeability).

Behavioural expectations for yard deployment

- Operational mindset:** you think in availability, maintainability, lifecycle cost and safe energisation.
- Structured & assertive:** you challenge constructively, document

For further questions regarding the recruiting process please contact:

Harold Post
People | Talent Acquisition
harold.post@tennet.eu

For questions relating to the position:

Sander Kuiper
Operational Readiness Engineering | Manager Operations & Maintenance
sander.kuiper@tennet.eu

decisions, and keep momentum under pressure.

- Clear communicator:** you translate complex site realities into concise actions and updates.
- Culturally adaptable:** you build trust across disciplines and cultures in a dynamic yard environment.
- Safety first:** you demonstrate exemplary behaviour around LOTO, energisation, and work permits.

Your profile and background

Your team

You will join the **Offshore Electrical & Automation** discipline within **Operational Readiness Engineering – Offshore Netherlands**, working closely with Grid Connection Managers and the full Operational Readiness organization. Our culture is **collaborative, international, fast growing and quality driven**—coordination, learning, innovation and teamwork define how we work.

What you bring

Mindset & skills

- Technical insight & practical mindset**—you connect operational realities with structured engineering thinking in complex offshore environments.
- Analytical strength & planning**—you triage risks, prioritize actions, and support smooth project to operations transitions.
- Team mindset & adaptability**—you thrive in diverse, multicultural teams and take ownership for shared outcomes.

Qualifications (guidance)

- Degree in Electrical Engineering, Industrial Automation, Energy Technology, Mechatronics, or equivalent.
- Hands on experience with electrical auxiliary (LV) and automation/SCADA/PLC systems in construction, commissioning, O&M or asset support.
- Demonstrable experience interpreting single line diagrams, schematics, wiring diagrams, I/O lists, loop drawings, P&IDs and applying them in practice.
- Familiarity with commissioning deliverables (FAT/SAT, loop checks, energization plans, punch management) and O&M documentation.
- Willingness to travel and work in offshore environments; medical suitability and working at heights capability required.
- Strong communication skills in Dutch and/or English.

Mobility

- Willingness to relocate temporarily (approx. 2-3 years) to Singapore/Batam during construction phases under expat and Dutch contract terms. After this assignment, you return to TenneT's operations organization in the Netherlands.

This will be our challenge

Offshore is responsible for the development, construction, and management of the offshore electricity grid. With the North Sea as the green engine of the energy transition, Offshore plays a clear and vital role within TenneT's organisational structure.

The Offshore division manages the entire lifecycle of all TenneT offshore installations, from development and realisation to maintenance and handover to the Operate division. A crucial task is the construction of 2 GW offshore 'sockets', which collect and transport generated wind energy to the mainland.

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/113330>