

Why do we need digital substations in Norway?

The use of digital substations makes it necessary to think through all failure scenarios and make sure that the preparedness is on a correct level. The Norwegian Regulation on security and emergency preparedness in the power supply system 13 includes the direct cyber security requirements for digital substations in Norway.

What are the cybersecurity requirements for digital substations in Norway?

The Norwegian Regulation on security and emergency preparedness in the power supply system 13 includes the direct cyber security requirements for digital substations in Norway. To be able to be complying multiple cybersecurity standards are relevant.

Should a DSO/TSO develop a common Norwegian specification for digital substations?

common Norwegian specification for digital substations should be made and shared in the energy sector as a basis for company specific specifications. DSO/TSOs in Norway should build in house competence to develop the IEC 61850 engineering modelling in cooperation with other DSO/TSOs in Europe.

What is a container substation?

An intelligent solution for obtaining direct current quickly and economically is provided by container substations. By integrating the equipment in a modular housing and undertaking rigorous testing off site, Siemens is able to supply fully built and tested modular traction power substations to a consistent and high level of quality.

What is Sogndal substation?

Statnett SF energy system operator |Sogndal substation, Norway Sogndal substation is a key node point in Western Norway. It strengthens the Western Norway power grid, increases the electricity transmission capacity, and provides voltage support by installation of a Static Var Compensator (SVC).

What is a high-voltage substation?

High-voltage substations, the node points of today's complex power transmission infrastructure, play a key role in meeting this demand safely and reliably. Wherever you are, Siemens Energy is your reliable partner for planning and construction of customized, state-of-the-art high-voltage substations.

Mar 18, 2025&nbsp;&#183;&nbsp;&nbsp;Norway, Oslo: National power grid operator Statnett estimated that roughly 60,000 t of oil leaked at a substation near Oslo on March 16, ...

Jul 1, 2024&nbsp;&#183;&nbsp;&nbsp;Construction has commenced on a massive battery energy storage system (BESS) project at Cellarhead in the West Midlands, with ...

Oct 25, 2016&ensp;&#0183;&ensp;A new substation in south Oslo has long been on the planning board. Statnett first presented specific plans for a new substation at Li&#229;sen in the alternatives analysis for the ...

Jun 3, 2024&ensp;&#0183;&ensp;The aim of this thesis is to tackle the whys of substation design mostly focusing to Finland, i.e. the primary focus of the research is to explore and understand the underlying ...

May 13, 2025&ensp;&#0183;&ensp;Substation digitalization makes TSO and DSO cooperation easier, but still data exchange and establishment of best practices for DS in Norway must be discussed. Issues ...

Medium voltage containerised power substations for the solar, mining, tunnelling and construction industries. Containers substation are offered as standard or bespoke packages to suit the ...

Rockwill MV Turnkey Compact Substation Rockwill's MV Turnkey container type compact substation is designed for easy transportation and fast ...

4 days ago&ensp;&#0183;&ensp;E-Houses are customized, prefabricated substation (pre-assembled, pre-tested) modular power substations. Providing electrical ...

Oct 17, 2024&ensp;&#0183;&ensp;Skanska has signed a contract with Statnett SF to upgrade and expand the Ulven substation in Oslo, Norway. The contract is worth NOK 385M, about SEK 380M, which will be ...

Jun 19, 2025&ensp;&#0183;&ensp;The Scheme, if consented, could deliver approximately 500 megawatts (MW) of homegrown, renewable energy through ground-mounted solar photovoltaic (PV) panels. This ...

Nov 17, 2025&ensp;&#0183;&ensp;Fences can be omitted, which simplifies permitting, while enhancing the substation's aesthetic appearance. The customized and compact solutions have a small ...

Apr 15, 2016&ensp;&#0183;&ensp;The connection codes specify functional requirements for generators (RfG), demand connections (DCC) and HVDC connections, ...

Norway's floating offshore wind tender for Utsira Nord requires substation developers to lock in 30-year PPAs before construction, enabling financiers to model revenue streams with  $\leq 5\%$  ...

Kontrolmatik manufactures turnkey Prefabricated / Container E-House from engineering, production of the entire system, equipment supply, system ...

Ehouse and kiosk substations Brunstock is proud to offer modular substations that are no bigger than a standard shipping container. ...

2 days ago&ensp;&#0183;&ensp;Siemens Energy prefabricated power solutions are customized, prefabricated



# Oslo PV container substation consultation

high-voltage substations that help save time and money both in temporary and permanent ...

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