

RESUME

Name : Bjørn Sanden
Date of birth : May 15th, 1968
Nationality : Norwegian
Languages : Norwegian, English
Company : Cable Consulting AS
Current position : Managing Director and Senior Adviser
of Cable Consulting AS



Summary:

With over 30 years of experience in the high voltage cable industry, I have gathered a wide perspective of the industry working in R&D, cable manufacture and installation, project development and project execution both as a contractor (Nexans) and as client (TSO). I have held managerial positions on multiple levels, including top management. I have also been project manager for cable and installation on the client side for a major interconnector project.

I am very passionate about the cable industry and the pivotal role the industry is playing for the energy transition of the world. Through my career the main topic has been technology and importance of technology for supporting the energy transition.

POSITIONS AND KEY EXPERIENCE

07.2024 – present **Cable Consulting AS**
Managing Director and Senior Adviser

Established new consulting company to support the different stakeholders on all aspects of high voltage AC and DC cable systems. The primary offer from the company is resource for hire. With my diverse background this may be management roles, project manager, package lead or technical expert during the different phases of a project from development, procurement, execution and in service. Additional services provided are advice on the cable market, any aspect of technology, recommended testing practises, risk assessments, audits and so forth. The company can also offer training in high voltage AC and DC cables.

11.2023 – 06.2024 **Nexans, Generation and Transmission Business Group**
Chief Technology Officer

Developed a new position in the G&T business, Chief Technology Officer (CTO). The G&T business is growing in size and complexity and the creation of the CTO role is to strength technology leadership in the BG, with particular focus on R&D, tendering and project execution. The CTO is key in defining and driving the technology strategy and technology development in alignment with the business goals of the BG. The CTO is the ultimate technical authority in the BG. Member of the management committee of G&T business group (approx. 2700 employees with turnover of around EUR 1bn)

03.2023 – 10.2023 **Nexans, Generation and Transmission Business Group**
Vice President Engineering and R&D

Only change of title, same scope as previously.

11.2022 – 02.2023 **Nexans, Generation and Transmission Business Group**
Director Engineering and R&D

Led the process to create a new section, Engineering and R&D, in the Generation and Transmission (G&T) business group. The new section unites Technical and Project Engineering into one common engineering and R&D organisation to better meet the future requirements by strengthening competence, increase organisational flexibility and being

one united engineering team. The Engineering and R&D section has the overall product and system responsibility and is the technical authority in the G&T BG. The section is responsible for early client engagement, tender engineering, project engineering, standardisation and R&D, and shall ensure that the BG has the required competence and document best practices for designing subsea and land cables and accessories. Management of an international team of approx. 200 engineers in Norway, Germany, France and US. Member of the management committee of G&T business group (approx. 2700 employees with turnover of around EUR 1bn)

08.2018 – 11.2022 **Nexans, Subsea & Land Systems Business Group**
Technical Director

Technical director for the business area Subsea & Land Systems (SLS) involved having the ultimate technical responsibility of all technical aspects within the business area. Management of an international team of approx. 120 engineers based in Norway, Germany, France, Belgium and US. Member of management group of the SLS business group (approx. 2200 employees with turnover of around EUR 700m).

09.2013 – 07.2018 **Unitech Power Systems AS**
Senior Adviser & Head of HV cable transmission systems in Unitech

05.2015 – 06.2018 *Senior project manager cables, North Sea Link project. Client: Statnett SF.*

Responsible for the cable package of the North Sea Link interconnector project (1440 km of mass-impregnated HVDC cable rated at 525 kV). Management of cable contacts, interface management, stakeholder management internally and externally.

04.2014 – 04.2015 *Project engineer, North Sea Link project. Client: Statnett SF*

Project development, technical and commercial tender evaluation and negotiations of cable contacts for the North Sea Link interconnector project (interconnector between Norway and UK).

01.2014 – 10.2014 *Project manager for Ivar Aasen electrical studies. Client: Wood Group Mustang (Det norske oljeselskap asa)*

Project to investigate and predict the performance of the Ivar Aasen Platform's electrical power distribution system by conducting different electrical studies:

02.2013 – 08.2013 **Statnett SF**
Project Director NORD.LINK/NorGer

Project Director for the development phase of NORD.LINK/NorGer cable project between Norway and Germany. NORD.LINK/NorGer is an international project with TenneT (Netherlands and Germany), KfW (German bank) and Statnett as partners. Important aspects of the position were: management and development of project team (>20 team members for the Norwegian part of the project), international cooperation, technical and commercial development of the project, licencing processes in Norway and Germany, development and release of cable tender for project (1150 km of 525 kV mass-impregnated DC cable).

10.2010 – 01.2013 **Statnett SF**
Head of cable technology

Management of cable technology department in Statnett. Responsibilities: member of management group of the Projects division (approx. 180 employees), management and development of department (13 employees), recruitment, technical responsibility for high voltage cable projects in Statnett, Project Owner for several high voltage cable projects, including the Outer Oslo Fjord cable project (> 1 mrd NOK).

04.2008 – 09.2010 **Nexans Norway AS, Energy division**
R&D Manager

Responsible for R&D activities and intellectual property within business areas of the Energy division; submarine HV cables design, manufacturing and installation, and umbilicals. Manager of Competence Centre for submarine HV cables and umbilicals in the Nexans group. Member of management group of the Technical department in Nexans (approx. 100 employees). Built up a dedicated department of R&D personnel. Participated in several international R&D projects.

- 10.2007 – Hafslund Infratek**
03.2008 *Discipline leader Technical Quality*
- Technical support and follow up of technical quality in commercial offers and delivery projects within business areas regional and transmission grid. Member of the division management group.
- 01.2007 – Nexans Norway AS, Energy division**
09.2007 *Head of XLPE cables and accessories*
- Head of department (approx. 20 employees) and technical responsibility of submarine high voltage XLPE cables and accessories. Project manager of international development project in the Nexans group.
- 03.2006 – Nexans Norway AS, Energy division**
12.2006 *Senior Engineer / Project Manager*
- Project manager of international development project in the Nexans group. The project target was to develop extruded high voltage DC cables for land and submarine applications.
- 06.2003 – Nexans Norway AS, Telecom and Special cables division**
02.2006 *Head of engineering and project support*
- Head of department of engineering and project support within the business areas telecom and special cables (oil and gas segment). Responsible for employees, project manager of delivery projects, engineering manager in delivery projects, technical design and support, follow up of manufacturing.
- 08.2000 – Nexans Norway AS, Telecom and Special cables division**
05.2003 *Senior Engineer*
- Senior engineer within business area special cables (oil and gas segment), with focus on products for different types of umbilicals. Development of new products, engineering in delivery projects, offers, and R&D.
- 02.1998 – SINTEF Energy Research**
07.2000 *Scientific Adviser (20% position)*
- Scientific adviser within high voltage insulation systems in SINTEF projects, part time position.
- 01.1997 – The Norwegian University for Science and Technology**
07.2000 *Associate Professor*
- Teaching courses in high voltage insulation systems (both fundamentals and products, such as high voltage cables). Supervising Master students. R&D within high voltage insulation systems.
- 08.1992 – The Norwegian University for Science and Technology**
12.1996 *Scientific assistant (20% position)*
- Held a part time position as scientific assistant at the Department of Electrical Power Engineering during the Doktor ingeniør education.

EDUCATION

- 1992 – 1996** **Doktor ingeniør (PhD)**
The Norwegian University for Science and Technology, Dept. of Electrical Power Engineering
Thesis: *XLPE cable insulation subjected to HVDC stress – Space charge, conduction and breakdown strength*
- 1987 – 1991** **Bachelor of Engineering in Electrical and Electronic Engineering (with honours)**
University of Strathclyde, Scotland

ASSIGNMENTS/OTHER

- 2023 – 2024** Member of Board of Directors Nexans Norway AS
- 2023 – 2024** Member of management committee of the Generation and Transmission Business Group in Nexans (approx. 2700 employees).
- 2019 – 2022** Member of management committee of the Subsea & Land Systems Business Group in Nexans (approx. 2200 employees).
- 2010 – 2012** Member of management group of the Projects division (approx. 180 employees) in Statnett.
- 2009 – 2012** Convenor of Cigré working group B1.32: *Recommendations for testing HVDC extruded cable systems for power transmission at a rated voltage up to 500 kV*
- 2009 – 2010** Member of IEC TC20/WG16
- 2008 – 2010** Member of management group of the Technical department in Nexans (approx. 100 employees)
- 2006 – 2007** Member of Cigré working group B1.25: *Advance design of laminated metallic foils.*
- 2002 – 2012** Co-supervisor and examiner of several Master thesis at the Norwegian University of Science and Technology, Department of Electrical Power Engineering.
- 1999 – 2000** Team leader High Voltage Technology, Department of Electrical Power Engineering, Norwegian University of Science and Technology.
- 1999 – 2000** Member of board of department of Electrical Power Engineering, Norwegian University of Science and Technology.
- 1991 – 1992** Compulsory military service