iberapa
people on power solutions

Cátedra SMART ENERGY

WEBINAR

"Technical Asset Management and Grid Resilience"

Prof. Dr. Robert Ross

TU Delft & IWO (Institute for Science and Development, Ede, NL)

PRESENTIAL & ONLINE

ONLINE INSCRIPTION

FECHA IMPARTICIÓN: 24 DE SEPTIEMBRE de 2021
HORARIO: 09:30 a 11:00
LUGAR: Salón de Actos de la ETSII, edificio 5F de la Universidad Politécncia de Valencia

Contents of the webinar

The focus is on reliability of materials, components and systems. The approach is a combination of material science, diagnostics, statistics, system configuration and asset management.

The elements in the webinar comprise:

- A short introduction on the background of asset management in Europe
- Three Maintenance Actions and Main Maintenance Styles – why and when to use which (what would you do at home?)
- Reliability Centred Maintenance – how to live up to expectations
- Four levels of quality control in the grid – assets, systems, mitigation, information systems
- Impact of trends and transitions – what influences our way of work
- Early failures due to deviations and emergency decision-making – what if it goes wrong

Examples are discussed that are deduced from actual failures in the electric power supply.

Short Biography Robert Ross

Rob Ross worked on the electrical energy sector for over 35 years. He worked at Utrecht University, KEMA, National Institute of Materials & Chemical Research (Tsukuba, Japan), Institute for Science & Development (IWO), Netherlands Defence Academy (NLDA), TenneT TSO, HAN University of Applied Sciences and TU Delft. IWO, TUD and TenneT are active affiliations.

He conducted projects in Europe, Asia, Africa and USA. One of his most successful project was the ITM-project that investigated the aspects sustainability, reliability and socio-economy of large-scale smart charging of electric vehicles. This project gave an important impulse to the Dutch electricity sector in the field of electric vehicles.

The spectrum of subjects comprises: reliability and availability of electrical energy and components; applied superconductivity; forensic investigations after failure; decision-making based on small data sets; diagnostic techniques; sustainable energy. His work led to 4 patent applications on materials or superconductivity. A book on Reliability Analysis is published with Wiley/IEEE (ISBN 9781119125174).

He received the 2004 SenterNovem Annual Award for Best invention in the category Energy & Environment (NL) and was nominated by the World Technology Network (USA) in the category Best Researcher Energy in 2006. He has built up a network in the electricity sector and the maritime sector through Cigré, IEC, IEE, IEEE, ENTSOe, Maritime Knowledge Centre and the IWO Foundation.