

## Your Cooperation Partner in Engineering and Project Management

### Introduction

With more than 70 years of experience in main technical subjects necessary for working with SmartGrids, Balslev Consulting Engineers is the right partner to choose for a SmartGrid project.

### Fields of Expertise

Balslev has expertise in electrical installations from high voltage to low voltage, lighting, emergency supply, automation and EMC. We also offer expertise in security installation, heating, air conditioning, ventilation and instrumentation. Project management is another expertise.

Distributed generation installation is a well-known task for Balslev. During the last 25 years, we have been involved in projects concerning power generation plants. In Denmark, focus is typically on emergency power and UPS installations with batteries or flywheels. The generation plants we engineer are connected parallel to the grid or island operated, as often is the case in the developing countries.

Further more, we conduct net quality harmonic distortion analyses to increase the reliability of the net.

Another key competence is planning and detailed design of electrical wind turbine installations, both internally in wind turbines and externally, i.e. cabling between wind turbines and offshore transformer platforms.

Our engineers also perform simulations for electrical installations, e.g. short circuit calculations with subsequent selectivity analysis and relay settings. Simulations are also performed of normal operation and fault conditions to verify the compliance with the national grid code.

Within the area of Automation and Communication (PLC and SCADA), we design and implement intelligent building installations within the public as well as the private sectors. Examples include buildings such as hospitals, airports, industrial buildings and corporate headquarters, e.g. Copenhagen Airport and Widex (a major manufacturer of hearing aids).

### Cooperation

Balslev cooperates with both Distribution System Operators (DSO) and Transmission System Operators (TSO), e.g. Dong Energy and Energinet.dk. Furthermore, we undertake planning and engineering of numerous projects for institutions and private industries



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