

*Independent Safety Assessment/Common Safety Methods / Notified Body:
Danish Electrification Program*

Customer: Banedanmark
Place of execution: Esbjerg – Lunderskov/Køge Nord
– Næstved/Copenhagen – Ringsted/Fredericia -
Aarhus (Denmark)
Project duration : 2014– 2021
Team: 1 Project Manager, 2 Lead assessor, 5 Experts
including 1 local Expert



PROJECT'S DESCRIPTION:

The mission consists in the assessment of EP project i.e. the electrification of several railway sections in Denmark.

The aim of EP is to allow the electric trains operating on most of the Danish railway network. The system that will be provided should be a well-proven system already approved according to the TSI with some minor modifications to fit the Danish infrastructure.

The electrification system consists in Catenary system, Power Supply system with an interface with the Electrical Remote Center.

EP includes 7 project phases:

- 1-Tendering
- 2- Generic Design
- 3- Section Allocation Design
- 4- Section Construction and Installation
- 5- Section testing and commissioning
- 6- Section Handover/Acceptance
- 7- Section Warranty Period

SCOPE OF WORK:

In order to success the mission, Certifer is working closely with Banedanmark to perform ISA mission according to CSM regulation 402/2013 and NoBo mission according to TSI Energy 2014 as followed:

ISA mission

- o Assessment of the electrification system itself including checking the right coverage of some risks by the other subsystems (Infrastructure, CCS, Rolling Stock...)
- o Assessment of the acceptability of exported requirements from the adjusted or new system to the electrification system
- o Assessment of the interfaces with other subsystems

NoBo mission

- o Assessment of the electrification system according to TSI Energy for Energy subsystem. Assessment regarding to other TSIs is considered being performed by the other NoBo.