

NAME : Ann-Sofie Bonde Mortensen
COUNTRY : Denmark
REGISTRATION NUMBER: 5179

GROUP REF.: B3
PREF. SUBJECT: PS1
QUESTION N°: 1.4

SC B3: Substations and electrical Installations

PS1: Increased impact of clean energy transition on Substation Design

Question 4: To what degree are the new environmental directives impacting on the industry's ability to respond and deliver the substation infrastructure necessary to facilitate NetZero?

A long with the high demand from the society, to have a CO2 neutral future, we see a fast-growing market asking for more energy and green energy. The offshore wind market has been developing with a fast pace. Moving from 33 kV to 66 kV, and soon 132 kV in the offshore wind turbines, and the size of the turbines developing as well. The technology and voltage level are under development all the time, to optimize and deliver energy to the society in the most environmental way. The offshore wind business has been asking for a more environmental GIS for the offshore wind turbine for many years. There are many aspects to why the offshore wind business is asking for SF6 free GIS, where we can mention the handling will become easier, it is safer to work with and healthier for the environment. An important aspect to consider is that the GIS will be placed offshore. It needs to be compact, fulfil offshore requirements and at the same time contribute to a sustainable future.