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Workshop

COST ANALYSIS FOR OFFSHORE WINDFARM DECOMMISSIONING PROJECTS

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In the past two decades, the offshore wind power technology has witnessed a significant growth thanks to the recent improvements in constructional costs and installation techniques. As the expected design life for an Offshore Wind Farm (OWF) is estimated to be between 20 and 25 years, the number of OWFs approaching or entering decommissioning will be dramatically increased in the next decades. The windfarm layouts, water depths and site specific quantities of each OWF field are unique, and although it is feasible to have a list of expected requirements, it is not feasible to have a single decommissioning execution plan. Therefore, new efficient cost models with site specific strategies and information are needed to estimate the OWF decommissioning costs more accurately.

OWF decommissioning is still quite new with limited data or experience available, which can lead to many uncertainties, increased assumptions and thus, less accurate estimates. This workshop will try to provide a cost analysis of OWF decommissioning projects by covering following topics:

- Introduction to the OWF decommissioning
- An overview of available experience in OWF decommissioning
- Removal scenarios for different components of OWFs, including wind turbines, offshore substations, meteorological mast and, intra and export cables.
- Available vessels for offshore removal operations
- Cost modelling of removal operations
- Future challenges in OWF decommissioning