

To The Danish Energy Agency (DEA)

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Horns Rev 3 and Kriegers Flak Offshore Wind Farms – Questions related to Geo Investigations (UXO, geophysical, geological, geotechnical)

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SBM

Energinet.dk has been requested by the Danish Energy Agency (DEA) to conduct geophysical and geotechnical surveys in the pre-investigations areas for the two coming offshore wind farm sites at Horns Rev 3 and Kriegers Flak.

According to the instructions from DEA the overall objectives of the preliminary geo investigations of the offshore wind farm (OWF) areas are to gather data, information and knowledge in order for the interested parties, including the potential OWF builders, to be able to:

- Delineate the areas for the areas for development of the OWFs (preliminary site selection and decision making)
- Conduct environmental impact assessment (EIA), including marine archaeological conditions.
- Preliminary plan the structures (including substations, wind turbines and cables)
- Assess the general feasibility of the use of jack-up platforms and anchor based vessels during the investigation and construction phases.
- Preliminary plan and determine general requirements for foundation concepts, design and construction

Desk studies regarding geological and geotechnical conditions in the two areas in 2012 in order to plan the following geophysical and geotechnical surveys in 2012 and 2013 respectively, and UXO desk studies were also carried out for both areas.

Dialogue with potential bidders has been initiated by DEA in February 2013 where results from the geophysical surveys in 2012 and the UXO desk studies were presented at a meeting held the 27th of February 2013. At the same meeting plans and suggestions for the geotechnical pre-investigations were also presented.

During March 2013 input to the planned geotechnical surveys has been received.

The appendix to this note summarizes the comments in anonymous form, including answers or responses to the input.

DEA and Energinet.dk highly appreciates the incoming inputs and recommendations, as these will ensure that the geophysical and geotechnical surveys can be targeted as much as possible, in order to satisfy the needs for future potential developers.

Inputs and recommendations suggested from more than one potential bidder have been weighted high when evaluating revisions in the planned program.

In summary, the following suggestions have been included in the program.

- More CPT
- Pressuremeter tests
- Dynamic laboratory tests

Acoustic Corer will not be part of the program.

Further a list of dates for expected publishing of the different reports has been included.