

Blankett för projektförslag till OffshoreVäst. Fyll i blankettens *kursiva text*.
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ORCA – Oil Recovery in Arctic Conditions, Prestudy

Short description

With increasing maritime activity in Arctic regions through new sea-routes, e.g. the north-east passage, as well as increased oil and gas exploration, the risk of a major oil spill in this sensitive environment is significantly increased. In such case, it is crucial that appropriate resources are available to quickly recover the spilled oil and minimize the environmental impact. In this region however, infrastructure is scarce and available resources are spread far. Furthermore, the harsh environment pose great challenges to human presence and puts high stresses on both ships and their manning, but also has highly sensitive ecosystems. Potentially, an oil spill in this area will have an enormous impact since no plan exists on how to remediate it and no technique is readily available to recover oil spilled in ice covered waters. All in all, this calls for an action plan to be devised before an accident occurs in the arctic.

This includes physical equipment for remediation of oil mixed with ice as well as carriers of this equipment that are highly mobile in Arctic environment, i.e. ice covered waters. It also includes a ready action plan and coordination of these resources, oceanographic predictions of the spread of the oil slick and the potential impact on the ecological systems in the area.

The first step in this project, to which the current application is directed, is to make an inventory of the state-of-the-art techniques including, but not limited to:

- Equipment for oil remediation in thick level ice
- Design of a carrier and platform for this equipment, e.g. a ship
- Operational plan for the response team
- Oceanographic models for how an oil slick is spreading below an ice cover as well as in open water
- Studies on the effect of the arctic marine environment in order to be able to focus remediation efforts on the most sensitive areas

This inventory includes identifying relevant cooperation partners within each field and will serve as a background in writing an application for the Horizon 2020 call [Blue Growth: Unlocking the potential of Seas and Oceans, topic: Response capabilities to oil spill and marine pollutions](#)

Goal of the project

To make a pre-study and write an application for Horizon 2020 on an operative action plan in order to recover a major oil spill in arctic conditions. In connection with this, establish a consortium with partners for the project.

PROJEKTFÖRSLAG

Project time

Start: 2014-06-01

Slut: 2015-06-01

Budget

Manning costs				
	Time cost	No of hours	Total	
Ida-Maja Hassellöv	752	75	56431,47	
Per Hogström	698	75	52387,32	
Malin Johansson	548	75	41063,7	
			149882,5	SEK

In addition for the 75 hours each for these three persons applied from Offshore Väst, Chalmers University of Technology will contribute 40 hours of in-kind time for the project.

Cost for arranging workshop with consortium partners: 50 000 SEK

Total Budget: 199 882 SEK

Organization behind application

Chalmers University of Technology