



Project Summary

Standardization of Ice Forces on Offshore Structures Design

STANDICE

Action Line: Cost-effective supply of renewable energies
Contract Type: Specific support actions
Activity area: Wind Energy

Coordinator:

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Project details

Reference:	Wind/503721/2003	Start Date:	1/06/2004
Status:	Execution	End Date:	1/06/2007
Project Cost (€):	243.400	Duration (months):	36
Project Funding (€):	243.400		

Summary

During the past six years two RTD-projects have been performed by a consortium of seven European partners to investigate ice forces on marine structures. The aim of this work has been to establish new methods for ice load predictions. The work has been supported by the EC under the projects LOLEIF and STRICE. The data compiled by these projects are of great importance for the future development of offshore wind energy converters, OWECS, in the ice-covered seas of Europe. Because the ice forces on marine structures are internationally heavily disputed the present design codes for OWECS as well as for all marine structures in ice-infested waters are not been considered reliable. Therefore, the main objective of this project is to contribute to the development of an international standard for the design of marine structures such as OWECS against ice loads with special emphasis on European sub-arctic ice conditions. To achieve this objective, the project will take advantage of an international standardisation effort. A year ago the International Standard Organisation, ISO, established a working group "ISO TC67 SC7 WG 8: Arctic Offshore Structures Standard". This activity is supported by CEN, the European Code Organisation. Three experts of this proposal, who have been working in the LOLEIF and STRICE projects, were appointed by ISO to participate in the new working group. They intend to take care of the European interest in this activity. The proposed SSA-project STANDICE will re-assess the results of the previous projects and then derive a draft for a sub-arctic ice load design code as a supplement to the Arctic Code. By this project results of past and present EU-programmes would be especially exploited by the development of international standards, which is above normal exploitation activities.



Partners

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2	Helsinki University of Technology	FI
3	VTT Technical Research Centre of Finland	FI
4	Hamburgische Schiffbau - Versuchsanstalt GmbH	DE