

Projet FP7 – KITVES



Nom du projet	Airfoil-based solution for vessel on-board energy production destined to traction and auxiliary services – KITVES
Call	SST-2007-1.1-02 / SST-2007-5.1-01
Type de projet	Small or medium-scale focused research project
Rôle de la HES-SO	Participant
Chercheur impliqué	Valérie Briquez (HE-ARC)
Participants	Sequoia Automation srl (Italy) – coordinateur ; Fundacion Tecnalía research & innovation (Spain) ; TEKS sarl (France) ; Modelway s.r.l. (Italy) ; CE.s.i. Centro studi industriali di taddei Simona Maria ec sas (Italy) ; SVMTEC gmbh (Germany) ; Bergische Universitaet Wuppertal (Germany) ; Katholieke Universiteit Leuven (Belgium) ; University of Sheffield (United Kingdom) ; Haute Ecole Spécialisée de Suisse occidentale (Switzerland) (PIC HE ARC).
Budget global	4.25 millions euro / financement UE : 2.96 millions euro
Durée	36 mois, début le 1.10.2008
Résumé	<p>The problem that will be the object of the project is the generation of electric energy on vessels. In the troposphere, the wind increases its velocity with the altitude and this velocity is also more constant. KiteVes solution is based on the on-board realisation of a wind-powered generator, capable to harvest the altitude wind and to efficiently convert wind power into electrical power. The kites will be equipped with sensors. The sensors will identify position, orientation and acceleration of each kite. The data will be transmitted to a control unit (placed on the vessel) which pilot motors (also placed on the vessel).</p> <p>Through a cinematic chain and the two cables, connected to the kites, the motors control the fly of the kites. The motors are equipped with double effect drives, this way the same motors act as power generators. The main concept that lies behind this project is the application of emerging technologies in the field of energy production to the field of surface transport, with the main objective of performing the greening of surface transport itself by the implementation of technologies for an optimal use of energy. The main objective of the KiteVes Project is to provide an innovative solution to the electric energy supplying aboard vessels, available for the following purposes: 1. supplying energy to on board services and auxiliaries; 2. supplying energy for traction purposes on electric motors-powered vessels.</p>

Lien <http://www.kitves.com>

Hes·SO

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