Project Data Sheet



BASIC PROJECT DATA							
Full project title:	LNG Power Train for	Danube Inland Navig	gation				
Short project title: (acronym)	LDS	Project logo:	-				
Project website:	_	Project ID:	PA1A069				
Need and added value for Danube Region Strategy:	Contribution to the implementation of usage of alternative fuels in Danube navigation with highly positive economical and ecological impact.						
Objective(s) of project:	The project constituted of a feasibility study on the sustainable reduction of CO2 emissions as well as particle and NO2 emissions by using LNG (liquefied methane and bio methane) for Danube navigation. The study served as preliminary planning for an experimental development project for a retrofit solution, contributing to the short- and medium-term achievement of the Austrian climate targets.						
Project activities:	 Modelling and calculation of the potential for improvement of the climate- relevant CO2 emissions and trace substances (NOx and particulate matter) of Danube navigation 						
		ustainable retrofitting of n a methane pilot ignitior	diesel engines of typical Danube n engine				
	Evaluation of the ex	pected emission levels					
		tion of a concept of an natural gas and bio meth	LNG tank technology for inland ane)				
		concept for LNG refuellind for the supply on their	ng infrastructure for the Danube r typical routes				
		of liquid methane and	changes to the legal regulations bio-methane in inland waterway				
	 Cost analysis relate measures 	d to the developed retro	fitting methods and infrastructure				
	• Presentation and discussion of the results in a final symposium with policy makers and international experts						
Transboundary impact:	The solutions are applicable to all Danube countries.						
Project beneficiaries / target groups:	Shipping companies						
	Shipyards	Shipyards					
		TIME FRAME					
Current project phase: (please tick a box)	 Definition (e.g. project idea, abstract) Preparation (e.g. project proposal, feasibility study) Implementation Completion 						
Start date:	01.01.2010 End date: 31.05.2011						





Notes:		-			
PROJECT TEAM					
Project leader:	Vienr	/ienna University of Technology / Austria			
Project partner(s):				che Wasserstraßen-Gesellschaft mbH Verkehr und Telekommunikation	
Contact person:	Name:		-		
	Organisation:		Vienna University of Technology, Institute for Power Trains and Automotive Technology		
Addr		ess: Gusshausst		raße 27-29,1040 Vienna, Austria	
	Phor	e:	-		
	E-Ma	il:	-		
	Web	site:	http://info.tu	wien.ac.at/epucher	
FINANCING					
Available: (please tick a box)		Yes Partly No			
Total budget:		121,418 E	UR		
Source(s) and amount (potential sources for project ideas): (please tick a box and provide further info)		X National/regional funds:		72,139 EUR (Climate and Energy Fund) funded by the Austrian Research Promotion Agency (FFG); project number 825471; 3rd call on New Energies 2020, 3.4. energy-efficient vehicle components and systems	
		EU funds:			
		IFI loans:			
		X Private funds:		49,279 EUR (budget of project partners)	
		Other	r:		
PROJECT ENVIRONMENT					
Project cross-refere	ence:	_			
Cross-reference ID(s):	-			
Strategic reference:		Introduction of alternative fuels to inland waterway transport.			
Relevant legislation	:	-			
Other:		-			

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Relation to other Priority Areas of the Danube Region Strategy:	 PA1b: To improve mobility and multimodality – Road, rail and air links PA02: To encourage more sustainable energy PA03: To promote culture and tourism, people and people contacts PA04: To restore and maintain the quality of waters PA05: To manage environmental risks PA06: To preserve biodiversity, landscapes and the quality of air and soils PA07: To develop the knowledge society through research, education and information technologies PA08: To support the competitiveness of enterprises, including cluster development PA09: To invest in people and skills PA10: To step up institutional capacity and cooperation 				
	PA11: To work together to promote security and tackle organised and serious crime				
	EUSDR COMPLIANCE				
Compliance with targets of the Danube Region Strategy:	 Increase the cargo transport on the river by 20% by 2020 compared to 2010. Solve obstacles to navigability, taking into account the specific characteristics of each section of the Danube and its navigable tributaries and establish effective waterway infrastructure management by 2015. Develop efficient multimodal terminals at river ports along the Danube and its navigable tributaries to connect inland waterways with rail and road transport by 2020. Implement harmonised River Information Services (RIS) on the Danube and its navigable tributaries and ensure the international exchange of RIS data preferably by 2015. Solve the shortage of qualified personnel and harmonize education standards in inland navigation in the Danube region by 2020, taking duly into account the social dimension of the respective measures. 				
Compliance with actions of the Danube Region Strategy:	 To complete the implementation of TEN-T Priority Project 18 on time and in an environmentally sustainable way. To invest in waterway infrastructure of Danube and its tributaries and develop the interconnections. To modernise the Danube fleet in order to improve environmental and economic performance. To coordinate national transport policies in the field of navigation in the Danube basin. To support Danube Commission in finalising the process of reviewing the Belgrade Convention. 				

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	To develop ports in the Danube river basin into multimodal logistics centres.			
	To improve comprehensive waterway management of the Danube and its tributaries.			
	To promote sustainable freight transport in the Danube Region.			
	To implement harmonised River Information Services (RIS).			
	To invest in education and jobs in the Danube navigation sector.			
Affiliation to thematic working group of Priority Area 1a of the EUSDR:	Waterway infrastructure and management			
	Ports and sustainable freight transport			
	X Danube fleet			
	River Information Services			
	Education and jobs			
OTHER RELEVANT ISSUES				
Project requirements:	-			
Follow-up project:	Demonstration project recommended as outcome.			
Any other issues:	-			