



European Regional Development Fund
European Territorial Cooperation 2007 - 2013

CCI 2007 CB 163 PO 037

OP Italia-Malta 2007-2013

Application Form

June 2011

A.1 - PROJECT PROPOSAL FORM

1. PROJECT TITLE	DEMONSTRATING HOW TO MAKE PORTS MORE ENERGY EFFICIENT AS WELL AS DEMONSTRATING THE USE OF ELECTRIC MOBILITY IN PORTS AND PORT AREAS					
2. PROJECT ACRONYM	Port PVEV					
3. PRIORITY AXIS	AXIS II - ENVIRONMENT, ENERGY and					
4. BUDGET	2,500,000					
5. LEAD PARTNER	Transport Malta					
6. ENVIRONMENTAL IMPACT	positive impact Adoption of the BATin enviromental project					
7. IMPACT ON EQUAL OPPORTUNITY POLICIES	neutral impact select					
8. PROJECT DURATION	START	August 2012	END	November 2014	TOTAL Months n.	27 months

FOR JTS ONLY

Project Proposal Number

Operation Unique Code

Expenses Categories of the Operation

Acceptance Result

Evaluation Result

A.2 – REFERENTIAL ELIGIBLE ACTIONS

9. ELIGIBLE ACTIONS

The project tackles the renewable energy theme by planning to install solar power generation systems at port administration buildings and within port areas. The pilot actions aim to realize joint innovative interventions to guarantee reducing energy consumption into the ports and their public facilities. The project allows an Italian-Maltese exchange of solutions to increase the eco-efficiency of the ports with the diffusion of sustainable and energy-saving practices for sea transport. In particular, following are the operative actions:

- Identification of physical interventions to be implemented in respective port areas and a high level strategic environmental assessment to evaluate ex-ante the actual and future environmental efficiency in the ports & hinterlands.
- Feasibility study on the provision of renewable energy to power berthing vessels to include drafting of local port plans to identify the best location for a shore supply pilot targeting heavily polluting ships in harbor.
- Installation of PV panels on identified buildings in respective port areas

- Pilot – Purchase of equipment – Photo Voltaic (PV) installations on rooftops in identified port areas, installation of vehicles fast charging infrastructure & launch of electric vehicles/ specialized vehicles at ports & hinterlands to study the extent to which ports can be carbon neutral.
- Publicity and promotional material to disseminate results

10. COHERENCE WITH THE ELIGIBLE ACTION

The main objective of this project is to demonstrate how to make ports & port areas as carbon neutral as possible. Moreover it will demonstrate how ports can contribute to the respective national air quality targets as well as to the climate change and energy national targets namely the reduction of CO2 emissions as well as the use of renewable energy sources. The project also demonstrates how solar energy can target these purposes to different modes of transport as well as port infrastructure.

This will be done through the deployment of 2nd generation electric vehicles (FEVs) & complementary fast charging points in order to reduce carbon emissions at port areas emanating from combustion engine vehicles. FEVs will be demonstrated as an alternative to more polluting internal combustion engine vehicles with the aim of encouraging the use of such vehicles as much as possible and which will result in the general improvement of air quality.

This project also aims to contribute towards the decoupling of economic growth from the demand on fossil fuels & resources. This will be done in two ways.

Firstly, PV installed at port-administration buildings will help in the reduction of port operations' dependability on fossil fuels by generating renewable energy sources locally & feeding it into the national grid as well as studying ways how to use this energy to power electric vehicles used within port areas.

Promotional & publicity material will ensure that the activities implemented and results achieved are disseminated as widely as possible to encourage further take up of said activities and widen the scope of this project to other sectors & geographical areas. Activities done in this project will enable the Mediterranean ports participating in this project to promote themselves as Green Ports.

		11. BUDGET ALLOCATION AMONG MEMBER STATES			
		Total (A=B+C+D)	ERDF (B)	National Co-financing (C)	Additional Financing (D)
12. ITALIAN PARTNERS N.	2	925,000	786,250	138,750	0
13. MALTESE PARTNERS N.	2	1,575,000	1,338,750	236,250	0
14. TOTAL PARTNERS N	4	2,500,000	2,125,000	375,000	0

15. PROJECT FUNDING PER PARTNER AND SOURCE							
Project Partner	Partner Name	Beneficiary category	Percentage %	Total (A)	ERDF (B)	National Co-financing (C)	Additional Financing (D)
LP	Transport Malta	Central Administrations	33	825,000	701,250	123,750	0
PP 2	Catania Port Authority	Port and maritime authorities	20	500,000	425,000	75,000	0
PP 3	Ministry for Resources and Rural Affairs	Central and local governments	30	750,000	637,500	112,500	0
PP 4	Province of Caltanissetta	Central and local governments	17	425,000	361,250	63,750	0
PP 5		selezione					
PP 6		selezione					
PP 7		selezione					
PP 8		selezione					
TOTAL	4		100	2,500,000	2,125,000	375,000	0

A.3 – PROJECT DESCRIPTION

16. SHORT PROJECT SHORT DESCRIPTION (IT)

Il progetto contribuisce al miglioramento dell'efficienza energetica nei porti e alla riduzione delle emissioni di CO2 nelle relative aree. Il progetto prevede l'installazione di infrastrutture fotovoltaiche nei porti di La Valletta, Catania e Gela, nonché una serie di azioni volte a implementare, sperimentare, valutare e diffondere l'elettromobilità dentro e in prossimità dei porti e delle rispettive aree operative.

I partner redigeranno inoltre Piani locali della portualità sostenibile per suggerire le politiche future per implementare le energie rinnovabili nei porti coinvolti e per decarbonizzare ulteriori aree anche dopo la conclusione del progetto. Le azioni aggiuntive suggerite serviranno quindi a sviluppare ulteriormente i risultati raggiunti in questo progetto. La redazione di questi piani terrà conto dei risultati da ottenere attraverso azioni pilota, alcune delle quali sono da realizzare nell'ambito del presente progetto. Come parte di questi piani, il progetto prevede anche uno studio per determinare la fattibilità e la sostenibilità di impianti di approvvigionamento per fornire da terra alle navi attraccate nei porti energia verde al posto del l'olio combustibile pesante. Tali impianti, una volta collegati alla rete elettrica nazionale (o eventualmente anche agli impianti fotovoltaici), oltre alle navi possono fornire anche l'energia ai macchinari elettrici per la movimentazione delle merci in banchina nonché servire il fabbisogno energetico delle navi in fase di stazionamento (per es. alloggi passeggeri e dell'equipaggio). Con questo sistema i generatori di energia a bordo potrebbero quindi essere spenti pur mantenendo operativa la nave attraccata

Il progetto prevede infine l'acquisto di veicoli elettrici che, attraverso l'installazione di infrastrutture fotovoltaiche, forniranno i primi servizi di trasporto a emissioni zero nelle aree portuali. Inoltre nei parcheggi di pertinenza dei porti coinvolti verranno installate delle stazioni di ricarica per i veicoli elettrici.

Questo progetto aiuterà anche a Malta e in Sicilia a dare attuazione pratica al miglioramento delle loro rispettive qualità dell'aria, la riduzione delle emissioni di carbonio e l'uso di obiettivi di energia rinnovabile, ma anche di suggerire politiche che potrebbero essere attuate in futuro per realizzare ulteriori obiettivi fissati nella Cambiamenti climatici e il pacchetto energetico e quelli nell'ambito della direttiva quadro sulla qualità dell'aria e inquinamento acustico nelle Porte.

17. SHORT PROJECT DESCRIPTION (EN)

The project will demonstrate and contribute towards making port areas as carbon neutral as possible. Through the project, Photovoltaic Infrastructure (PV) will be installed in designated locations within the ports of Valletta, Catania and Gela as well as demonstrate, test, evaluate and disseminate a number of actions with respect to the achievement of electromobility in and around the proximity of the respective ports.

Local green plans for ports and port areas will be compiled to suggest future policies for implementation of green energy actions to further decarbonise port areas in each of the partner port areas as a second stage to this project. The suggested actions will serve as a continuation to the results achieved in this project. The compilation of these plans will take into account the results obtained through the pilot actions, some of which are to be implemented as part of this project. As part of these plans, the project also foresees a study to determine the feasibility and sustainability of shore supply installations for the provision of electrical shore sourced power to ships when berthing in ports rather than using heavy fuel oil, by connecting to the national electricity grid to provide ships with the necessary energy to power on board facilities such as cargo handling machinery and hospitality needs for both crew and passengers on board ships.

Through this project a number of full electric vehicles will be purchased which through the installation of PV Infrastructure, will provide the first carbon neutral transportation in port areas. In addition a number of PV- electric car charging stations will be deployed in public car parking spaces. In and around port areas.

This project will also help Malta & Sicily to implement in practice the improvement of their respective air quality, reduction in carbon emission & the use of renewable energy targets, while also suggest policies that could be implemented in the future to further fulfil objectives set in the Climate Change and Energy Package and those within the Air Quality Framework Directive & Noise Pollution in Ports.

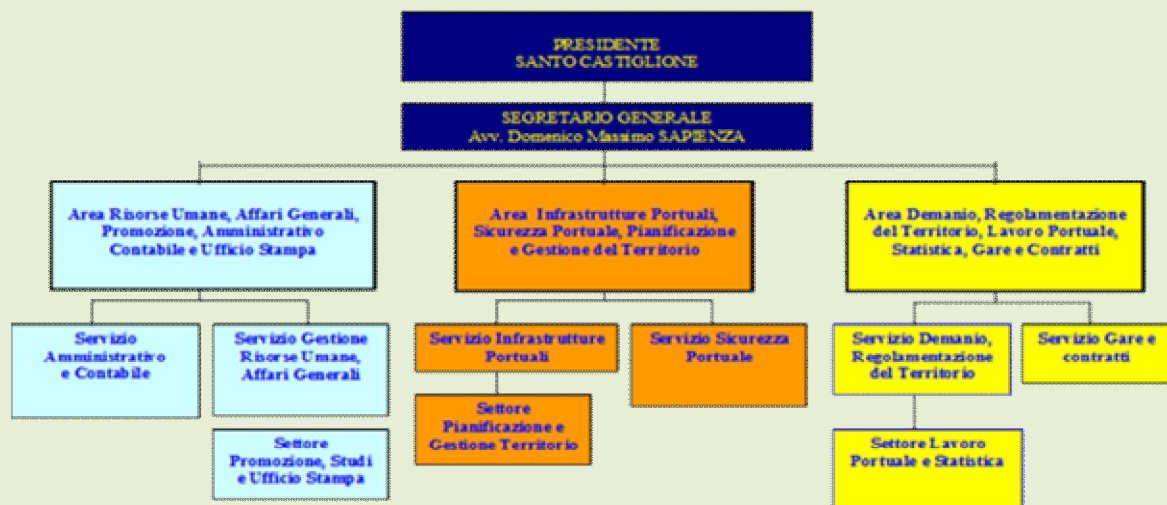
SECTION 1

PART B (Identification and quality of the partners)

18. LEAD PARTNER		MEMBER STATE		IT <input type="checkbox"/>	MT <input checked="" type="checkbox"/>
LEGAL NAME	Transport Malta				
NATIONAL INSURANCE NUMBER	N/A				
VAT ELIGIBLE	<input checked="" type="checkbox"/>	YES	<input type="checkbox"/>	NO	
WEBSITE:	www.transportmalta.gov.mt				
LEGAL REPRESENTATIVE	NAME:	Stanley			
	SURNAME:	Portelli			
	POSITION :	Chief Executive Officer			
	ADDRESS:	Malta Transport Centre, Xatt I-Ghassara, Marsa MRS 1917			
	PHONE NUMBER:	++356 2291 4501	FAX:	++356 2124 8911	
	E-MAIL:	stainley.portelli@transport.gov.mt			
CONTACT PERSON	NAME:	Peter Paul			
	SURNAME:	Barbara			
	POSITION :	Manager EU Affairs			
	ADDRESS:	Transport Malta, Sa Maison rd. FRN 1612			
	PHONE NUMBER:	++356 2560 8208	FAX:	++356 2124 8911	
	E-MAIL:	peter.p.barbara@transport.gov.mt			
DESCRIPTION OF EXPERIENCES AND PROFILE OF INSTITUTION (follow the instructions of the guideline for applicants) TM is the national authority responsible for transport in Malta. It standardizes and regulates all modes of transport & is responsible for the public transport system, policies and road and port safety & the construction & maintenance of all public transport infrastructure. TM regulates the registration of ships and aircraft under the Malta Flag and administers ports and yachting marinas. To effectively tackle co-modality, TM has amalgamated the previous Land, Civil Aviation and Maritime Transport Authority as from January 2010. TM's financial capacity falls under the 4 units of the Corporate Directorate directed by the Financial Controller who reports to the Chief Operations Officer. Accounts and Billing Units will be directly responsible for handling the project's finances. In order to ensure a clear audit trail, a separate account shall be opened to handle this project. previous EU funded projects handled by the previous three authorities include: Land projects; 2 Transition Facilities at 712, 500 Euro & 137, 500 Euro on CPC training; TEN-T 2004-2007 on upgrading works at 314,185 Euro; Interreg 3B-2004-2006 - CYRONMED at 95, 550 Euro; ERDF 16 2004-2006 Reconstruction of Hal Far Road at 5,521,553 Euro, ERDF 39 2004-2006 upgrading and rehabilitation of Regional Road Bridge at 4,314,024 Euro; Cohesion Fund- 2004-2010 upgrading of TEN-T at 11,086,000; ERDF 48 2007-2010 road network upgrading at 18,051, 408; Maritime projects: ERDF 18 2004-2006 ports Digital Security infrastructure: ERDF 17 2004-2008 Coastal VTS Equipment: Interreg 3A 2004-2008 CAVALAGO: 6 Transition Facility 2002-2007 Capacity Building at Maritime Authority, port safety, vessel traffic management: TEN-T 2006-2008 Surveys and Geo-technical facilities and marine facilities: Horizontal projects: Interreg DOLCETTA 2008-2009. ERDF: 2011-2015 MODUS- deployment of an ITMS system in Malta at Eur 10,000,000. Life+: 2011 - 2015 DemoEV Demonstration of Electric vehicles & charging points at Eur 1,300,000.					

19. PROJECT PARTNER 2				MEMBER STATE		IT <input checked="" type="checkbox"/>	MT <input type="checkbox"/>
LEGAL NAME	Catana Port Authority						
BENEFICIARY CATEGORY	Port and maritime authorities			LEGAL STATUS	public equivalent body		
NATIONAL INSURANCE NUMBER	93057770872						
VAT ELIGIBLE	<input checked="" type="checkbox"/>	SI	<input type="checkbox"/>	NO			
WEBSITE:	www.porto.catania.it						
LEGAL REPRESENTATIVE	NAME:	Santo					
	SURNAME:	Castiglione					
	POSITION :	President					
	ADDRESS:	via Cardinale Dusmet 2p Circum - 95131 - Catania					
	PHONE NUMBER:	+39 095.534115		FAX:	+39 095.536031		
	E-MAIL:	presidente@porto.catania.it					
CONTACT PERSON	NAME:	Domenico Massimo					
	SURNAME:	Sapienza					
	POSITION :	General Secretary					
	ADDRESS:	via Cardinale Dusmet 2p Circum - 95131 - Catania					
	PHONE NUMBER:	+39 095.535888		FAX:	+39 095.536031		
	E-MAIL:	segretariogenerale@porto.catania.it					
<p>DESCRIPTION OF EXPERIENCES AND PROFILE OF INSTITUTION <i>(follow the instructions of the guideline for applicants)</i></p> <p>In accordance with Law 84/94, Catania Port Authority is a public corporation with the tasks of allocating, spatial planning, programming, coordination, promotion and control of port operations and other commercial and industrial activities carried out in its port. The Port Authority is also responsible for maintenance of common port areas and for the provision of general services in the harbour.</p> <p>Other objective of the Port Authority is the national and international promotion of the harbour's activities, so that actions are always to support the internationalization of the port and its enterprises by entering into European circuits</p> <p>To develop the project, three persons will be dedicated to the project together, with external consultancy for the technical support in the project management and coordination with Lead partner.</p> <p>The average annual total budget of Catania Port Authority is € 84,5 million. Separate accounts of project costs will be provided by internal staff. The Authority employs 7 Full timers and a number of external expert and project contracts upon needs.</p> <p>Catania Port Authority was Lead Partner in CAVALGO project, funded by ITALIA-MALTA Interreg IIIA Programme, that aims to improve sea transport between Catania and Valletta. Project duration of 18 months.</p> <p>Port Authority has also participated as an implementing body for SECURMED and CAPITAL BLEU projects, funded by Medocc Interreg IIIB Programme, that aim to improve maritime security and tourism in Euromediterranean ports.</p> <p>At the moment Port Authority is partner in the PORTA project, funded by OP MED 2007/13, that tackles the theme of accessibility to and from the node port regions and inland areas. The same project develops new integrated regional planning models in the port, urban and transport fields.</p>							

Below is the chart of the organization.



20. PROJECT PARTNER 3				MEMBER STATE		IT <input type="checkbox"/>	MT <input checked="" type="checkbox"/>
LEGAL NAME	Ministry for Resources and Rural Affairs						
BENEFICIARY CATEGORY	Central and local governments			LEGAL STATUS	public organization		
NATIONAL INSURANCE NUMBER	N/A						
VAT ELIGIBLE	<input checked="" type="checkbox"/>	SI	<input type="checkbox"/>	NO			
WEBSITE:	www.mrra.gov.mt						
LEGAL REPRESENTATIVE	NAME:	Christopher					
	SURNAME:	Ciantar					
	POSITION :	Permanent Secretary					
	ADDRESS:	Triq Francesco Buonamici Floriana FRN 1700					
	PHONE NUMBER:	(+356) 22952222		FAX:	(+356) 22952212		
	E-MAIL:	christopher.ciantar@gov.mt					
CONTACT PERSON	NAME:	Stefan					
	SURNAME:	Cachia					
	POSITION :	Director EU Affairs					
	ADDRESS:	Triq Francesco Buonamici Floriana FRN 1700					
	PHONE NUMBER:	(+356) 22957211		FAX:	(+356) 21232035		
	E-MAIL:	Stefan.v.cachia@gov.mt					
<p>DESCRIPTION OF EXPERIENCES AND PROFILE OF INSTITUTION <i>(follow the instructions of the guideline for applicants)</i></p> <p>The Ministry for Resources and Rural Affairs (MRRA) is responsible for the climate change Mitigation and adaptation strategy in Malta, in addition to the other tasks related to the promotion of the environment, agriculture, natural resources and energy matters in Malta. Amongst others, it is the central governing body responsible for the:</p> <ul style="list-style-type: none"> - Management of resources, including energy and water; - Rural development and environmental management; - Design and implementation of infrastructure works and projects; - integrated coordination of agricultural and fisheries production; - Research and innovation within the areas included in the Ministry's portfolio. <p>With regards to Climate Change, the Ministry is responsible for the implementation of a number of climate change measures in Malta emerging from the EU's environmental <i>acquis</i> and the corresponding international obligations resulting from the United Nations Framework Convention on Climate Change. In particular it is in charge of the implementation of the climate change policy, reducing CO₂ emissions, developing alternative sources of energy as well as fostering a conservation culture.</p> <p>In a small island, where the sustainable management of our resources is crucial, where rural areas enhance the characteristic beauty of the Maltese landscape, where the sea is an intrinsic part of life, the integrated coordination of agricultural and fisheries production, resources management, and the respect towards the environment are a tremendous responsibility. This is even more so in the context of European Union and other international obligations. This Ministry is an important stakeholder in guaranteeing a better quality of life for today's and future generations.</p>							

21. PROJECT PARTNER 4				MEMBER STATE		IT <input checked="" type="checkbox"/>	MT <input type="checkbox"/>
LEGAL NAME	Provincia Regionale of Caltanissetta						
BENEFICIARY CATEGORY	Central and local governments			LEGAL STATUS	public organization		
NATIONAL INSURANCE NUMBER	00115070856						
VAT ELIGIBLE	<input checked="" type="checkbox"/>	SI	<input type="checkbox"/>	NO			
WEBSITE:	www.provincia.caltanissetta.it						
LEGAL REPRESENTATIVE	NAME:	Calogero					
	SURNAME:	Salvaggio					
	POSITION :	Vice Presidente					
	ADDRESS:	Viale Regina Margherita 28 – 93100 Caltanissetta (Italy)					
	PHONE NUMBER:	+39 0934 534111		FAX:	+39 0934 575045		
	E-MAIL:	presidenza@provincia.caltanissetta.it					
CONTACT PERSON	NAME:	Sergio					
	SURNAME:	Scarciotta					
	POSITION :	Responsabile Ufficio Europa					
	ADDRESS:	Via N. Martogliop 1 – 93100 Caltanissetta (Italy)					
	PHONE NUMBER:	+39 0934 534620		FAX:	+39 0934 598344		
	E-MAIL:	s.scarciotta@provincia.caltanissetta.it					
<p>DESCRIPTION OF EXPERIENCES AND PROFILE OF INSTITUTION <i>(follow the instructions of the guideline for applicants)</i></p> <p>The Regional Province of Caltanissetta is one of the nine provinces of the Sicilian Region. Within the provincial territory there are 22 municipalities and a population of 250.00 inhabitants. The Regional Province of Caltanissetta has about 400 employees and its main duties are:</p> <ul style="list-style-type: none"> building and maintaining of state secondary schools; building and maintaining of provincial streets; environmental protection; promoting of the local development: agriculture, handicraft, tourism, industry, trade and professional training; promoting of the politics for development, cohesion and regional, national and community agreement; enhancing social and cultural politics. <p>Its organization is branched into 13 sectors headed by an executive. The act of coordination is due to a Chief Executive officer.</p> <p>The President of the Province is elected every 5 years directly by the citizens, electors of the province. At the same time it is held the election of 25 city councilmen, who made up the provincial council. The President of the Province appoints 8 town councillors (each of them deals with departmental basic themes) choosing them among councillors or external staff.</p> <p><u>Previous Experience in project with EU fund:</u></p> <p>Community initiative program "Leader II" Project name: Sviluppo Valle dell'Himera (SVH)</p>							

Financed amount: 3.663.932,20 euros

Project's start date: 1/7/1999

Project's conclusion date: 31/12/2001

Partners: Provincia Regionale di Caltanissetta, Comuni di Caltanissetta, Barrafranca, Pietraperzia e Mazzarino

Objectives: Rural development through the support to the small and medium enterprises

Community initiative program "IANUS"

Project name: Indicator system to assess new urban services

Financed amount: 415.500 euros

Project's start date: 1/2/2000

Project's conclusion date: 30/9/2002

Partners: Provincia Regionale di Caltanissetta, Diputacio de Barcelona – Spagna; Institut de Programmation en Architecture et Aménagement – Francia, Deutsches Institut für Urbanistik – Germania, Ambiente Italia Istituto di Ricerche – Italia, Institut Ildefons Cerdà – Spagna, University of the West of England – Bristol – Inghilterra, Università degli Studi di Firenze – Italia

Interreg II B Medocc

Project name: Isolatino

Financed amount: 1.913.251,40 euros

Project's start date: 18/12/2002

Project's conclusion date: 31/10/2004

Partners: Province Regionali di Caltanissetta, Catania, Enna, Ragusa e Trapani, Province di Cagliari e Nuoro, Isole Baleari (Consejería de hacienda y presupuestos del goobern de las Illes Balears) e Corsica (Collectivité territoriale de Corse)

Objectives: Territorial marketing of the Mediterranean islands

Interreg III A Italia - Malta

Project name: METIC - Mediterranean Trading and Innovation Centre

Financed amount: 1.000.000,00 euros

Project's start date: 15/2/2006

Project's conclusion date: 15/8/2007

Partners: Provincia Regionale di Caltanissetta, Università di Palermo - Polo didattico di Trapani, Confindustria Sicilia, Provincia Regionale di Trapani, Consorzio Med Europe Export, Società consortile Ass.For.SEO, University of Malta (Malta), Malta Federation of Industry (Malta), Consorzio Universitario Provincia di Trapani

Objectives: Scientific research for the enterprises' benefit

Interreg III B Medocc

Project name: "Emergence 2010 – Etudes en Méditerranée pour des Energies Renouvelables Garantissant l'Electrification de Noyaux de Croissance Ecologique en 2010"

Financed amount: 1.210.000,00 euros

Project's start date: 1/7/2006

Project's conclusion date: 30/9/2008

Partners: Région Provence-Alpes-Côte d'Azur, Préfecture du Dodécanèse (Région Sud Egée, Grèce), Conselleria de Comercio, Industria i Energia (Région Iles Baléares, Espagne), Cres Centre des Energies Renouvelables (Grèce), Provincia Regionale di Caltanissetta, Provincia di Cagliari

Objectives: Promotion of energy from renewable sources in decentralised places

22. PROJECT PARTNER 5				MEMBER STATE		IT <input type="checkbox"/>	MT <input type="checkbox"/>
LEGAL NAME	<input type="text"/>						
BENEFICIARY CATEGORY	selezione			LEGAL STATUS	select		
NATIONAL INSURANCE NUMBER	<input type="text"/>						
VAT ELIGIBLE	<input type="checkbox"/>	SI	<input type="checkbox"/>	NO			
WEBSITE:	<input type="text"/>						
LEGAL REPRESENTATIVE	NAME:	<input type="text"/>					
	SURNAME:	<input type="text"/>					
	POSITION :	<input type="text"/>					
	ADDRESS:	<input type="text"/>					
	PHONE NUMBER:	<input type="text"/>	FAX:	<input type="text"/>			
	E-MAIL:	<input type="text"/>					
CONTACT PERSON	NAME:	<input type="text"/>					
	SURNAME:	<input type="text"/>					
	POSITION :	<input type="text"/>					
	ADDRESS:	<input type="text"/>					
	PHONE NUMBER:	<input type="text"/>	FAX:	<input type="text"/>			
	E-MAIL:	<input type="text"/>					
DESCRIPTION OF EXPERIENCES AND PROFILE OF INSTITUTION <i>(follow the instructions of the guideline for applicants)</i> N/A							

23. PROJECT PARTNER 6				MEMBER STATE		IT <input type="checkbox"/>	MT <input type="checkbox"/>
LEGAL NAME	<input type="text"/>						
BENEFICIARY CATEGORY	selezione			LEGAL STATUS	select		
NATIONAL INSURANCE NUMBER	<input type="text"/>						
VAT ELIGIBLE	<input type="checkbox"/>	SI	<input type="checkbox"/>	NO			
WEBSITE:	<input type="text"/>						
LEGAL REPRESENTATIVE	NAME:	<input type="text"/>					
	SURNAME:	<input type="text"/>					
	POSITION :	<input type="text"/>					
	ADDRESS:	<input type="text"/>					
	PHONE NUMBER:	<input type="text"/>	FAX:	<input type="text"/>			
	E-MAIL:	<input type="text"/>					
CONTACT PERSON	NAME:	<input type="text"/>					
	SURNAME:	<input type="text"/>					
	POSITION :	<input type="text"/>					
	ADDRESS:	<input type="text"/>					
	PHONE NUMBER:	<input type="text"/>	FAX:	<input type="text"/>			
	E-MAIL:	<input type="text"/>					
DESCRIPTION OF EXPERIENCES AND PROFILE OF INSTITUTION <i>(follow the instructions of the guideline for applicants)</i> N/A							

24. PROJECT PARTNER 7				MEMBER STATE		IT <input type="checkbox"/>	MT <input type="checkbox"/>
LEGAL NAME	<input type="text"/>						
BENEFICIARY CATEGORY	selezione			LEGAL STATUS	select		
NATIONAL INSURANCE NUMBER	<input type="text"/>						
VAT ELIGIBLE	<input type="checkbox"/>	SI	<input type="checkbox"/>	NO			
WEBSITE:	<input type="text"/>						
LEGAL REPRESENTATIVE	NAME:	<input type="text"/>					
	SURNAME:	<input type="text"/>					
	POSITION :	<input type="text"/>					
	ADDRESS:	<input type="text"/>					
	PHONE NUMBER:	<input type="text"/>	FAX:	<input type="text"/>			
	E-MAIL:	<input type="text"/>					
CONTACT PERSON	NAME:	<input type="text"/>					
	SURNAME:	<input type="text"/>					
	POSITION :	<input type="text"/>					
	ADDRESS:	<input type="text"/>					
	PHONE NUMBER:	<input type="text"/>	FAX:	<input type="text"/>			
	E-MAIL:	<input type="text"/>					
DESCRIPTION OF EXPERIENCES AND PROFILE OF INSTITUTION <i>(follow the instructions of the guideline for applicants)</i> N/A							

25. PROJECT PARTNER 8				MEMBER STATE		IT	MT
						<input type="checkbox"/>	<input type="checkbox"/>
LEGAL NAME	<input type="text"/>						
BENEFICIARY CATEGORY	selezione			LEGAL STATUS	select		
NATIONAL INSURANCE NUMBER	<input type="text"/>						
VAT ELIGIBLE	<input type="checkbox"/>	SI	<input type="checkbox"/>	NO			
WEBSITE:	<input type="text"/>						
LEGAL REPRESENTATIVE	NAME:	<input type="text"/>					
	SURNAME:	<input type="text"/>					
	POSITION :	<input type="text"/>					
	ADDRESS:	<input type="text"/>					
	PHONE NUMBER:	<input type="text"/>	FAX:	<input type="text"/>			
	E-MAIL:	<input type="text"/>					
CONTACT PERSON	NAME:	<input type="text"/>					
	SURNAME:	<input type="text"/>					
	POSITION :	<input type="text"/>					
	ADDRESS:	<input type="text"/>					
	PHONE NUMBER:	<input type="text"/>	FAX:	<input type="text"/>			
	E-MAIL:	<input type="text"/>					
DESCRIPTION OF EXPERIENCES AND PROFILE OF INSTITUTION <i>(follow the instructions of the guideline for applicants)</i> N/A							

26. CROSS BORDER CHARACTER OF THE PROJECT

This project will allow Malta & Sicily to demonstrate best practices of how to improve the air quality levels of their port areas by implementing sustainable measures that do not pollute at source. In addition the project will assist in the attainment of Malta & Sicily's targets to reduce the industry's dependability on fossil fuels by installing PV infrastructures to feed energy into the national grid and study ways of how to power vehicles using solar energy generated locally. These measures will contribute to both countries' efforts to decouple economic growth from non-renewable energy resources & reach EU Climate Change, Air Quality & Noise pollution targets.

In 2009, 3,585,299tn of goods was shipped between Malta, Catania & Gela and 91,325 passengers embarked from Valletta to Sicily. In 2009, a total of 181,851 passengers traveled between Malta and Sicily. This shows the heavy transport between the two islands; transport that completely depends on fossil fuels.


The level of cooperation between the partners in this project includes joint design of measures, joint implementation of activities & joint dissemination of results through joint financing between the partners to encourage a wider take up of the positive results expected from this project.

The main stakeholders to the activities to be implemented include port and transport authorities, local authorities & energy authorities. All are these stakeholders are the main beneficiaries to this project.

TERMS OF CO-OPERATION

27. TYPOLOGY	28. METHOD OF DEVELOPMENT
<input checked="" type="checkbox"/> Joint development	The pilots to be implemented have been drawn up through discussions, exchange and development of ideas between all partners. The common problems faced by Valletta, Catania and Gela have been exploited to form a joint project to be implemented within the port and the port areas as identified on the respective national territories.
<input checked="" type="checkbox"/> Joint implementation	Implementation shall take simultaneously so that the similarity of the pilots can be compared on the one hand and exploited on the other through the exchange of good practice and ideas. Co-ordination shall be overseen by the lead partner thus ensuring the parallel nature of the deployment and implementation of the project.
<input checked="" type="checkbox"/> Joint staffing	Joint staffing will take place through the setting up of an evaluation and control committee system intended for the monitoring and the implementation of the project through the set up of a steering committee where all the respective partners will be represented.
<input type="checkbox"/> Joint financing	

A.2 – ACTIVITIES LOCALISATION

29. NUTS III PROXIMITY AREAS		30. ADJACENT NUTS III	31. EXTERNAL ZONE
<input type="checkbox"/> Province of Siracusa	<input checked="" type="checkbox"/> Malta	<input checked="" type="checkbox"/> Province of Catania	<input type="checkbox"/> 
<input type="checkbox"/> Province of Ragusa	<input checked="" type="checkbox"/> Gozo	<input type="checkbox"/> Province of Palermo	
<input checked="" type="checkbox"/> Province of Caltanissetta	<input type="checkbox"/> Comino		
<input type="checkbox"/> Province of Agrigento			
<input type="checkbox"/> Province of Trapani			

32. ADDED VALUE OF THE INVOLVEMENT OF EXTERNAL PARTERS TO THE CBC AREA (to be completed only if section 31 is applicable)

Transport Malta (TM) is the Authority for Transport in Malta regulating all modes of transport (land/sea/air). As the "National Maritime and Port Authority" TM ensures the preservation of good order in territorial & internal waters. As National Authority TM will be responsible for the implementation of the project in the Valletta Grand Harbour. As LP, TM will allow direct cooperation within the partnership, beyond other national and regional bodies from Italy.

MRRA is the Ministry responsible for resources including energy, climate change, and rural affairs. Ministerial input would ensure the Maltese Government's commitment to this project during its lifetime & ensures continuity & sustainability including the possible expansion of results after project ends.

The Catania Port Authority is a public corporation established by Italian Law n. 84/1994 to allocate, plan, promote & control port operations & other commercial activities taking place in the port. The Port Authority is responsible for maintenance of common port areas & provision of general services in the harbour. Catania Port Authority will implement the pilot actions directly in its port areas & at the same time cooperates directly with regional and local stakeholders from Sicily.

The Province of Caltanissetta is a local government with an important regional port Gela-an industrial port for the transport of crude oil. The Province is experienced in cooperation programmes & can implement actions related to this project into the inner areas of their territory in order to improve the air quality and climate change.

33. BUDGET ALLOCATED TO PROGRAMME ELIGIBLE AREA

Project Partner		PP 1	PP 2	PP 3	PP 4	PP 5	PP 6	PP 7	PP 8	%	Total
NUTS III PROXIMITY AREAS	Province of Siracusa										
	Province of Ragusa										
	Province of Caltanissetta				425,000					17	425,000
	Province of Agrigento										
	Province of Trapani										
	Malta	825,000		750,000						63	1,575,000
	Gozo										
	Comino										
NUTS III ADJACENT AREAS	Province of Palermo										
	Province of Catania		500,000							20	500,000
EXTERIOR AREAS											
Total		825,000	500,000	750,000	425,000					100	2,500,000

34. IMPACT OF THE CBC TERRITORY (socio-economic and institutional)

Common problems experienced by both Malta & Sicily include the negative effects of double insularity; the fact that both are small island economies, together with the problem that the respective industries are highly dependent on conventional fossil fuels, causing environmental degradation as well as pose a strain on resources.

This project will target these problems as follows:

A port area is the window on the entire country. Improving air quality within port areas will improve the quality of the tourists' stay and will thus help encourage the tourism industry by enticing them to venture further inland. Implementing activities that improve air quality in Valletta & Catania will help encourage tourism in both islands – boosting the economy as a result & reduce the effects of double insularity.

Double insularity will also be targeted since the activities of this project will assist Malta & Sicily to decouple economic growth from non-renewable sources of energy thus reducing the strain on the economy & resources.

Port areas are also generally densely populated. In Malta, the Valletta port area (including the southern port region), encompasses 19% of the population as of 2010. Therefore an improvement in the air quality will also mean an improvement in the quality of life of these residents.

The main focus of this project is the improvement of air quality & mitigation of the effects of climate change as well as making use of renewable sources of energy. By implementing such measures at both sides of the channel simultaneously, this project is thus also contributing to reach pan-European energy targets (20% renewable energy target by 2020).

35. SPECIFY THE ENVIRONMENTAL IMPACTS (refer to point 6)

The project will have a positive environmental impact on involved areas since the partners adopt Best Available Technologies (BATs) and transport systems with low environmental impact in the port areas.

Generally, the port is an infrastructure generating air pollution. Thus the project will develop environmental actions towards two issues:

1. Adopting Best Available Technologies in the field of green energy.

PV infrastructures will be installed in the port areas to serve renewable energy to the port facilities and buildings.

In addition shore sourced power will be connected to national energy network and to PV infrastructures to serve the moored ships.

2. Adopting Transport systems with low environmental impact.

Partners will purchase Electric Vehicles for carbon neutral transport. These EVs will operate within the ports and will be connected to PV infrastructures installed in parking areas. It allows to reduce air pollution into the port.

In the case of pilot actions and their implementation in the Maltese scenario, that is, the deployment of FEVs and installation of PV technology the net carbon footprint will result in a sink of 1237 tonnes of CO₂.

36. PREVIOUS EXISTENCE OF THE PROPOSED PARTNERSHIP IN THE FRAMEWORK OF THE EU FUNDS

Transport Malta and MRRA have previously worked together on other EU projects aiming to tackle air quality and climate change.

Transport Malta and the Province of Caltanissetta have also previously worked together on an ERDF Malta-Italia project application in 2010. However, the application was not successful in the adjudication.

Catania Port Authority was lead partner in CAVALGO project for Interreg III C Italia-Malta, regarding the connections between Catania, Valletta and Gozo. In the same project Maltese partner was Malta Maritime Authority, that recently was absorbed by Malta Transport. Thus the partnership between Catania Port Authority and Transport Malta follows the old relationship implemented since 2004.

PROJECT LOGICAL FRAMEWORK

37. BACKGROUND ANALYSIS

The port area is usually the first location that tourists see when arriving to Malta/Sicily by sea. In Malta, the cruise liner business is developing rapidly such that in October of 2011 alone, 77,112 cruise passengers visited Malta. According to the NSO Transport Statistics, in 2011 between January and October, a total of 493,838 passengers passed through the Valletta Grand Harbour. The number of passengers who arrived in Malta on board cruise liners increased to 67,982, 16,828 more than the first nine months of 2010. Therefore improving air quality in port areas will also contribute to the tourist industry and the economy in-general while also reducing the negative effects of double insularity of both islands by boosting the tourist industry.

Previous national efforts include abolishment of leaded petrol in Malta by 2003 & the introduction of bio-diesel. While there were slight improvements in air quality exceedences in the limit set on Malta by the Air Quality Package Directive, exceedences are still being measured in the Floriana area, where NO₂ limit value went up to 98.40µg/m³ in 2007.

Solar power is given priority in Malta. A scheme introduced in 2010 encourages households to install PV panels. MRRA pays €0.28 for each unit of electricity produced by the household as opposed to €0.16 for each unit consumed.

In Malta there is no need for permit application for the installation of PV panels on roof tops at Port Authority Buildings. Similarly, following the recent legislative changes, in Italy a permit is not necessary, except for some urban restrictions to be observed in special cases which will be considered and tackled during the detailed design phase. The project intends to tackle the heavy dependence on fossil fuels in the respective port areas by introducing and encouraging electric mobility in ports & hinterlands & demonstrate ways how to power berthing ships using renewable energy - contributing to carbon neutrality in ports.

Since physical interventions will be implemented in 3 different ports with such heavy traffic between them the results will be visible & felt by all commuters travelling between the two islands thus maximising the possibility of further widening of the results after project finalisation. Contribution to this project's targets will continue in the future with the implementation of the Local Green Energy Plans that will be created as part of this project to focus on Catania and Caltanissetta; and the feasibility study on shore-side energy supply to focus on the ports of Valletta, Mgarr (Gozo) and Cirkewwa.

38. PROJECT DESCRIPTION

General Objective:

This project will start a process by which ports, port areas & their hinterlands become carbon neutral in order to decouple economic growth from non-renewable sources of energy

Specific Objectives:

Reduction in port operations' dependability on non-renewable sources of energy through:

- i. Use of solar energy to partly power port the respective administrative buildings and reduce port areas' dependence on non-renewable sources of energy and thus reducing Greenhouse Gas Emissions
- ii. Deployment of solar electric car-charging stations in public car parking infrastructure to contribute towards the achievement of carbon neutral transport. This will replace the use of carbon-based fuels by clean solar energy.
- iii. Launch electro mobility in Catania, Gela and Valletta harbours to partly substitute combustion engine vehicles used to service port operations with clean energy vehicles. This deployment will carry on to actually replace all carbon fuel

propelled vehicles in the future in port areas, which are operated by the respective port authorities and project partners.

iv. Study options for future policy implementation to further decarbonise port areas including a study on supplying power to berthing vessels using electric power instead of heavy fuel oil, as well as additional initiatives and measures which will be suggested from the respective studies. *How different phases of the project are expected to achieve the objective* All of the phases of the project will be contributing to decarbonise the ports and port areas participating in this project for the benefit of residents, the economy and the environment.

The phases of the project are therefore expected to achieve the following results:

Phase 1 of this project will compile action plans to be followed during the implementation of the technical work packages to this project. Phase 2 of this project will be based on the guidelines provided in phase 1 (WP2). Phase 2 (WP3), will see the implementation of the actions of this project including deployment of full electric vehicles, solar infrastructure on buildings and solar charging stations for electric vehicles.

Phase 3 (WP 2) will develop strategic local plans to guide policy makers on the possible future implementation of proposed actions to further decarbonise port areas. Moreover, the data and analysis reports to be produced after the completion of the pilot actions in Phase 2 (WP 3) and will be disseminated (WP4) in order to maximize the results achieved by this project. Policy makers will therefore be able to base future strategic projects on the results and assessments made by this project.

After the completion of this project, the respective port Authorities will start to implement the measures suggested in the green port plans in different phases and timelines. These policies and following phases will contribute towards the decarbonisation of ports and port areas with the ultimate objective to make them Green Mediterranean Ports.

39. SCHEDULED ACTIVITIES

WP1: Management and Coordination

1.1: Contract & start up

Start/End: Jul2012-Aug2012

Location: Valletta; Catania; Caltanissetta

Description: Negotiation of Grant Agreement between LP and MA. Signing of Grant Agreement. Discussion and negotiation on Partnership Agreements between LP and all PP. Appointment of staff to work on the project to include recruitment of project leader made by the LP and official appointment of internal staff to handle the project activities.

Coordinating PP: Transport Malta; engagement of Project Manager, leading negotiation of agreements

Involved PP: All partners; officially appoint internal staff, negotiate and sign Partnership Agreements

Budget: € 9,000

Results: Efficient implementation of project activities with good relations and lines of communication between partners.

1.2: Daily Project Management

Start/End: Aug2012- Nov2014

Location: Valletta; Catania; Caltanissetta, Gela

Description: Management and coordination of project activities to ensure the proper implementation and deployment of the project. In order to ensure proper implementation of the project LP will lead the communication across the consortium. This will take place through 6 monthly steering committee meetings to be hosted by each of the partners. LP will also organize site visits to each of the partners to monitor progress of implementation.

Coordinating PP: Transport Malta will be responsible for leading the daily management of the project

Involved PP: all partners will be required to attend Steering Committee meetings, host missions and meetings when necessary.

Budget: € 102,781

Results: Efficient implementation of project with successful attainment of project objectives

1.3: Reporting

Start/End: Dec2012-Oct2014

Location: Valletta; Catania; Caltanissetta

Description: Each partner will compile quarterly progress reports to be collected by LP to be used to draw up 3 monthly Monitoring Reports to be sent to MA.

Coordinating partner: Transport Malta will request progress updates from all partners and be responsible for drawing up quarterly monitoring reports to be sent to MA.

Involved partners: All partners to report to LP as requested.

Budget: € 31,000

Results: Proper project reporting and documentation in line with programme rules.

1.4: First Level Control

Start/End: Dec2012-Oct2014

Location: Valletta; Catania; Caltanissetta

Description: Contracting by each partner of external auditing services; quarterly financial claims and certification of claims to be made to LP. LP to request payments from MA every 4 months.

Coordinating partner: Transport Malta

Involved partners: All partners

Budget: € 31,000

Results: Efficient disbursement of project funds following programme rules

Work Package 2 – Cross-border Joint Energy Action Plan for the involved ports

2.1: Cross Border Action Plan

Start/End: Sept2012-Mar2013

Location: Valletta Grand Harbour inner and outer area, Cirkewwa and Mgarr Ports; Catania Port; Gela Port;

Description: Coordinated strategic cross border plan will be compiled to be used as guidelines for the PP during the implementation of the technical WPs to this project.

Coordinating PP: Catania Port Authority

Involved partners: All partners to assist in the creation of action plans involving their planned technical activities

Budget: € 26,638

Results: Efficient implementation of technical WPs

2.2: Local Green Plans

Start/End: Sept2012-Aug2014

Location: Catania Port; Gela Port;

Description: Local green port plans will be created to plan & suggest the implementation of green energy actions to further decarbonise each of the involved port areas based on the results achieved in the pilot actions to be implemented through this project.

Coordinating PP: Catania Port Authority

Involved partners: All partners to assist in the creation of local plans involving their respective ports

Budget: € 72,000

Results: Masterplans to locate energetic infrastructures and implement green policies to further decarbonise port areas as phase 2 to this project.

2.3: Strategic Environmental Overview

Start/End: Sept2012-April2013

Location: Catania, Gela Port

Description: A Strategic Environmental Overview will be compiled to evaluate ex-ante the actual and future environmental efficiency in the ports and port areas.

Coordinating partner: Catania Port Authority

Budget: € 41,500

Results: An SEO based on the actions to be undertaken in the Catania port area

2.4: Study on shore side energy supply for vessels berthing in ports.

Star/End: Sept 2012 – Aug 2014

Location: Valletta, Mgarr, Cirkewwa

Description: A study on the feasibility of implementing shore-side energy supply for vessels berthing in the port of Valletta, outlining the number of such berths, their optimal locations as well as gauging the feasibility of such a system.

Budget: € 44,989

Results: A feasibility study enabling policy makers to plan the future implementation of a shore-side energy supply in the Valletta Grand Harbour to reduce on-site carbon emissions and noise pollution

Work Package 3 – Pilot - Greening Port Areas

3.1: Purchase and Installation of Equipment and Infrastructure

Start/End: Nov2012-Jun2013

Location: Valletta Grand Harbour; Catania Port; Gela Port

Description: Following official procurement rules PV panels will be purchased and installed at port management areas in Valletta and Catania. Following official procurement rules electric car charging infrastructure will be purchased and installed at all 3 participating port areas to be used by the full electric vehicles (FEV) also to be purchased following official procurement rules.

Coordinating PP: Transport Malta to coordinate the activity

Involved PP: all partners to be responsible to procure & install the equipment & infrastructure necessary to implement their actions.

Budget: € 1,092,612

Results: All preparations necessary to be undertaken to ensure smooth launch and execution of pilot action

3.2: Purchase and Installation of solar car charging infrastructure

Start/End: Nov2012-Jun2013

Location: Valletta Grand Harbour; Catania Port

Description: Following official procurement rules solar panel car charging stations will be purchased and installed at public car parking sites in and around port areas in Catania and Valletta to be used by the full electric vehicles (FEV) also to be purchased as part of Action 3.1.

Coordinating PP: MRRA

Involved PP: Catania Port Authority

Budget: € 861,372

Results: All preparations necessary to be undertaken to ensure smooth launch and execution of pilot action

3.3: Pilot – Greening Port Areas

Start/End: Jul2013-Jun2014

Location: Valletta Grand Harbour; Catania Port; Gela Port

Description: The pilot action will be implemented over a twelve-month period to study whether the amount of power generated by solar panels on site is enough to offset the power utilized by electric vehicles used within port areas and to assess whether electric vehicles are suitable vehicles to be used in port operations. Qualitative and quantitative data will be collected throughout the pilot. A final report will be compiled to assess the results gained from the pilot.

Coordinating Partner: Transport Malta

Involved partners: All partnership to implement and lead the pilot actions taking place in their area of responsibility.

Budget: € 72,767

Results: Contributing towards making port areas carbon neutral

Work Package 4 - Information, Advertisement and Capitalization

4.1: Communication Plan

Start/End: Sept2012-Oct2012

Location of Activity: Valletta Grand Harbour; Catania Port; Gela Port

Description: A Communications Plan will be created in the first quarter of project implementation to create the guidelines to be followed in the promotion and dissemination of this project.

Coordinating Partner: Province of Caltanissetta

Involved Partners: all partners will assist in the compilation of the plan

Budget: € 5000

Results: Effective dissemination and promotion of project activities and results

4.2: Communication

Start/End: Aug2012 – Ongoing

Location: Malta, Gozo, Sicily

Description: Project communication will take place in Malta and Sicily aimed at informing the general public of the EU funds attained, the activities they will be spent on and progress updates on the implementation. This will be done **through the creation and upkeep of a website and press releases.**

Coordinating PP: Province of Caltanissetta will coordinate the release of information in Sicily & the contracting of external services to create & maintain the website

Involved PP: all partners will assist in the creation of the website, Transport Malta will be responsible for releasing press updates in Malta

Budget: € 34,000

Results: Effective communication of project activities while reaching as wide an audience as possible

4.3: Promotion

Start/End: Nov2012 – Oct 2014

Location: Malta, Gozo, Sicily

Description: Promotional material will be designed and erected at locations where the pilot is being implemented. All equipment will be marked with the Project logos and statements stating the name and details of the programme of funding.

Coordinating PP: Province of Caltanissetta will coordinate the contracting of external expertise to design the promotional material

Involved PP: all partners will be responsible to implement the promotional material in their respective areas

Budget: € 67,127

Results: Activities implemented through this project will be promoted to as wide a target group as possible

4.4: Dissemination of Results

Start/End: Jul2014-Sept 2014

Location: Malta, Gozo, Sicily

Description: Results gathered during the pilot action will be disseminated to stakeholders and the general public. This will be done through the publication and dissemination of a brochure that will compile within it all the results attained and the organization of a final conference to which all stakeholders will be invited to. Project results will also be published on the project website.

Coordinating PP: Province of Caltanissetta will coordinate the contracting of the external expertise necessary to design and publish the brochure and organize the final conference

Involved PP: all partners will assist CP as necessary

Budget: € 8,214

Results: Stakeholders will be informed of the results of this project in order to encourage further take-up of similar actions in other EU Ports

40. OUTPUT AND EXPECTED RESULTS

WP1 Management and Coordination

Activity 1.1: Contracting

Output: Negotiation and signature of Grant Agreement between LP and MA. Negotiation of Partnership Agreements between LP and PP.

Indicators: 1 Grant Agreement with Managing Authority; 3 Partnership Agreements; staff time sheets

Activity 1.2: Daily Project Management

Output: A well managed project reaching its objectives, without serious conflict between the partners and with no irregularities

Indicators: recruitment of 1 Project Manager; 8 progress reports; 4 mission reports; minutes from 5 steering committees meetings, staff time sheets

Activity 1.3: Reporting

Output: Proper reporting and documentation of project activities

Indicator: 8 Monitoring Reports, staff time sheets

Activity 1.4: First Level Control

Output: Smooth financial management and proper disbursement of funds following program rules

Indicators: 6 independent audit certificates per partner; 6 Request for Payments by LP to MA on behalf of all PP; staff time sheets

WP2 Cross Border Local Energy Action Plans

Activity 2.1: Cross Border Action Plan

Output: A joint cross border action plan providing guidelines to be followed by partners during technical implementation

Indicator: 1 Action Plan

Activity 2.2: Local Plans

Output: A strategic local plans for the implementation of further policies to de-carbonise port areas in the future

Indicator: 2 strategic local plans, staff time sheets

Target Groups: Local Governments and Port Authorities

Activity 2.3: Strategic Environmental Overview

Output: An ex-ante assessment of the actual and future environmental efficiency at Catania port and proximities

Indicator: 2 SEO reports

Activity 2.4: Study on shore side energy supply for vessels berthing in ports

Output: Feasibility study to allow policy makers to assess and plan the future implementation of a shore-side energy supply system

Indicator: 1 feasibility study; staff timesheets; 5 progress reports; external service provider contract; external service provider invoices; meeting minutes with stakeholders

WP 3 Pilot – Greening Port Areas

Activity 3.1: Purchase and Installation of equipment and infrastructure

Output: Procurement and installation of equipment and infrastructure in preparation for launch of pilot actions

Indicator: Transport Malta to cover a surface area of 1,460 sq/m with PV panels; Deployment of 8 FEVs in Malta; 3 FEVs in Catania; 4 FEVs in Caltanissetta; installation of 2 fast charging points in Malta; 1 fast charging point in Catania; 3 charging points in Caltanissetta. 20Kw/h solar power charging station in port of Catania.

Activity 3.2: Purchase and Installation of solar car charging and infrastructure

Output: Procurement and installation of solar car charging stations in preparation for launch of pilot actions

Indicator: Deployment and installation of 3 solar power charging stations in the Port of Valletta; installation of 20Kw/h solar power charging station in port of Catania.

Activity 3.3: Pilot – greening port areas

Output: A strategic assessment on whether solar power produced locally is sufficient to offset the energy necessary to

power electric vehicles used to service port operations with the aim of maximizing results achieved through this pilot.
Indicators: 4 periodic data reports from electricity power supplier; 4 periodical technical data reports; 3 waves of surveys from EV users at the beginning of the pilot, after the first six months and at the conclusion of the pilot;
Assessment of Data and final report by August 2014
Target Groups: Port Authorities; Local Governments; Residents in port areas

WP 4 Information, Advertisement and Capitalization

Activity 5.1: Communication Plan

Output: Communication plan to be used as a guide for the promotion of project material and dissemination of project results

Indicators: 1 Communication Plan , 1 progress report to indicate the advancement of the action plan, staff time sheets

Activity 4.2: Communication

Output: Continuous communication and updates on project progress throughout implementation to maximize the reach on dissemination of results

Indicators: 3 Press Releases; creation and upkeep of 1 website to update the public on project implementation

Target Groups: General public

Activity 4.3: Promotion

Output: Promotional material to be set up at areas of implementation

Indicators: Design of promotional material to be used in the dissemination to be complete by February 2013; Set up of bill boards and posters within project implementation areas by July 2013

Target Groups: General public

Activity 4.4: Dissemination of Results

Output: Final Press Conference and publication of brochure

Indicators: staff time sheets, agenda, invitations and minutes from 1 final conference, publication of 1 brochure

Target Groups: Port Authorities; general public; local governments; residents at port areas

41. LOGICAL FRAMEWORK

	Logic of Intervention	Indicators	Sources of verification	Assumptions
Overall Objective	Contributing towards making port areas & their hinterlands carbon neutral to decouple economic growth from non-renewable sources of energy	Take up and implementation of energy efficiency schemes to green ports and their hinterlands by 2020	Number of green policies implemented; amount of power generated through renewable sources of energy; number of clean energy vehicles deployed	National and local governments must be favorable to the green policies suggested and be in a position to implement the suggested policies considering available funds and stakeholders' perceptions
Specific Objective	Reduction of port operations' dependence on non-renewable sources of energy by introducing clean sources of energy to power areas in ports	<p>Compilation of local plans for each partner port area to be suggested as policy guidelines or further implementation of green policies within port areas</p> <p>Physical interventions within port areas to effectively reduce the dependence of port operations on non-renewable sources of energy</p>	<p>2 local plans to be created</p> <p>1 Feasibility study on shore-side power supply to berthing vessels</p> <p>1 solar power system to be implemented at TM administration building</p> <p>3 solar power charging stations to be installed in Valletta port area</p> <p>1 solar power charging station to be installed in Catania port area</p>	It is assumed that this project is the implementation of the first stage in a series of green initiative to help the decoupling of economic growth from carbon emissions; this project will therefore demonstrate the effects that different policies will have on the carbon footprint of a given port and suggest ways how to add to the policies being implemented through this project to achieve the overall objective as successfully as possible.

				Deployment of electromobility in Valletta, Catania and Gela – 15 Full electric vehicles to be deployed and used for port operations	
Expected Results	<p>Generation of solar energy to partly power port operations</p> <p>Deployment of electro mobility in Catania, Gela and Valletta harbor areas to partly substitute combustion engine vehicles used to service port operations</p>	<p>3,000MWh per annum are expected to be generated through renewable sources of energy as part of this project</p> <p>15 full electric vehicles are expected to be deployed through this project – a minimum of 13,700 litres of fuel are expected to be replaced by renewable sources of energy</p>	<p>Baseline data to be gathered from Port Authorities' annual electrical bills this data will be compared to data gathered from electricity supplier periodically during pilot action</p> <p>Baseline data to be collected from Port Authorities' logs on their current vehicle fleet, miles travelled, type of journeys made.</p>	<p>Government policies regarding green mobility and renewable power sources remain the same – To ensure full support from the Government to this project, the Ministry for Resources and Rural Affairs has been made partner to this project</p>	

	Generation of solar energy to charge Full Electric Vehicles.	In the case of pilot actions and their implementation in the Maltese scenario, that is, the deployment of FEVs and installation of PV technology the net carbon footprint will result in a sink of 1237 tonnes of CO ₂ .	<p>Same data will be gathered during the pilot implementation and allocated to FEVs.</p> <p>Data gathered before pilot and during pilot will be assessed to gauge FEV's feasibility to service port operations.</p>	
WP	Activities	Means	Costs	Assumptions
WP 1	<p>Activity 1.1: Contractualisation and start up</p> <p>Subsidy contract negotiated and signed between LP and MA; Partnership Agreements between LP and PP; Appointment of staff to work on the project to include recruitment of project leaders and official appointment of internal staff to handle the project activities</p>	<p>Recruitment of Project Manager through a public call for applications by LP</p> <p>Secondment of internal staff by each PP to be working on the</p>	<p>Sources of verification:</p> <p>Project reporting, staff time sheets, signed Partnership Agreements and Grant Agreement; steering committee meeting minutes; mission reports</p>	<p>Project is approved for funding</p> <p>Partners' internal organizational structures remain stable and able to support project</p>

	<p>Activity 1.2: Project Management and Coordination</p> <p>Daily project management led by LP in coordination with all PP</p> <p>Activity 1.3: Reporting</p> <p>Compilation and delivery of Monitoring Reports to MA</p> <p>Activity 1.4: First Level control</p> <p>Compilation of financial claims by each PP; Compilation of financial requests by LP; certification of payments</p>	<p>implementation of this project</p> <p>6 monthly steering committee meetings hosted within every project implementation area</p> <p>6 monthly spot checks done by LP within the area of implementation of each partner</p> <p>3 monthly progress reporting from all partners to LP to be used by LP to compile quarterly Monitoring Report</p> <p>Contracting of external auditing services by all PP</p> <p>4 monthly financial reporting and certification of payments by all PP</p>	<p>Cost: € 9000</p> <p>Sources of verification:</p> <p>Project reporting, staff time sheets; steering committee meeting minutes; mission reports; travel costs</p> <p>Cost: € 102,781</p> <p>Sources of verification:</p> <p>Project reports; staff time sheets</p> <p>Cost: € 31,000</p> <p>Sources of verification:</p> <p>External Auditing to be verified through certified payments and invoices from external service auditor to each PP; financial claims and financial requests to MA</p> <p>Cost: € 31,000</p>	implementation
WP2	<p>Activity 2.1: Cross Border Action Plan</p> <p>Coordinated strategic Cross Border Action Plan to guide PP in the implementation of technical WPs</p>	<p>Catania Port Authority to coordinate the activities under WP2</p> <p>Internal and external expertise;</p>	<p>Sources of Verification:</p> <p>Contracts with external experts; complete Cross Border Action Plan; staff time sheets</p>	

	<p>Activity 2.2: Local Energy Plans</p> <p>Compilation of local plans for the 3 areas of implementation (Valletta, Catania, Valletta port areas) for future implementation of green energy actions to de-carbonise port areas</p> <p>Activity 2.3: SEO</p> <p>Compilation of strategic environmental overview for the port of Catania to evaluate ex-ante the actual and future environmental efficiency in the port areas</p> <p>Activity 2.4: Study on shore side energy supply for vessels berthing in ports</p> <p>A study on the feasibility of implementing shore-side energy supply for vessels berthing in the port of Valletta, outlining the number of such berths, their optimal locations as well as gauging the feasibility of such a system.</p>	<p>market research; meetings between partners</p> <p>Internal and external expertise; meetings between partners; qualitative on site data collection; consultations with stakeholders;</p> <p>Internal and external expertise; meetings between partners; qualitative on site data collection;</p> <p>The study will be completed through external expertise; tender will be issued following official procurement rules; TM will provide any requested data as well as facilitate consultation with stakeholders.</p>	<p>Cost: € 26,638</p> <p>Sources of Verification:</p> <p>Contracts with external experts; complete Local Energy Plans; staff time sheets; project reporting; meeting minutes</p> <p>Cost: € 72,000</p> <p>Sources of Verification:</p> <p>Contracts with external experts; complete SEO; staff time sheets; project reporting; meeting minutes</p> <p>Cost: € 41,500</p> <p>Sources of Verification:</p> <p>1 feasibility study; staff timesheets; 5 progress reports; external service provider contract; external service provider invoices; meeting minutes with stakeholders</p> <p>Cost: € 44,989</p>	<p>Project leader will have been recruited before the initiation of this activity and each PP would have appointed internal staff and experts to work.</p> <p>External experts respond to the call for applications to be made in order to contract the consultation service required in time for this activity to start on time – some buffer time has been allocated in the project planning to allow for the full procurement process to take place and take into account possibility of appeals.</p>

WP3	<p>Activity 3.1: Purchase and Installation of Equipment and Infrastructure</p> <p>i. Purchase and installation of photovoltaic panels and related infrastructure at buildings used for port management in Malta</p> <p>ii. Installation and deployment of electric vehicle fast-charging infrastructure in ports and port proximities</p> <p>iii. Purchase and deployment of second generation electric vehicles of various classes to be used for servicing port operations.</p> <p>Activity 3.2: Purchase and Installation of solar power charging stations</p> <p>Following official procurement rules solar panel car charging stations will be purchased and installed at public car parking sites in and around port areas in Catania and Valletta to be used by the full electric vehicles (FEV) also to be purchased as part of Action 3.1.</p>	<p>LP to coordinate implementation of WP3:</p> <p>Official national procurement rules will be followed in the procurement process for the PV panels, full electric vehicles and charging infrastructure.</p> <p>All equipment purchased will be installed before the start date of the pilot action.</p> <p>All equipment purchased will be labeled to show it is EU funded; labeling of FEVs will double as promotion for clean energy vehicles</p> <p>MRRA to coordinate the implantation of this action.</p> <p>Official national procurement rules will be followed in the procurement process for the solar power charging stations.</p> <p>All infrastructure installed will be duly publicized and promoted giving proper recognition to the EU programme funding their purchase.</p> <p>The infrastructure will be fully operational before the launch of the pilot action.</p>	<p>Sources of Verification:</p> <p>Transport Malta to cover a surface area of 1,460 sq/m with PV panels; Deployment of 15 FEVs; installation of 6 charging points; project reporting; staff time sheets; supply contracts</p> <p>Cost: € 1,092,612</p> <p>Sources of Verification:</p> <p>installation of 4 solar power charging stations; project reporting; staff time sheets; supply contracts; KW of power generated</p> <p>Cost: € 861,372</p>	<p>Market prices would not have varied exuberantly from current prices – some contingency has been done in the budget planning to cater for such changes</p> <p>Suppliers respond to the call for applications to be made in order to contract the consultation service required in time for this activity to start on time – some buffer time has been allocated in the project planning to allow for the full procurement process to take place and take into account possibility of appeals.</p> <p>Government policies regarding green mobility and renewable power sources remain the same – To ensure full support from the Government to this project, the Ministry for Resources and Rural Affairs has been made partner to this project</p>

	<p>Activity 3.3: Pilot – Greening Port Areas</p> <p>A pilot to study whether the amount of power generated by solar panels on site is enough to offset the power utilized by electric vehicles used within port areas and to assess whether electric vehicles are suitable vehicles to be used in port operations</p>	<p>The pilot will be implemented over a 12 month period; Data will be collected through internal staff and external expertise; qualitative data will be collected through surveys made to users of the FEVs to gauge their perception of the vehicle and the perceived efficiency; quantitative data will be collected from electricity service provider; a final report will be compiled to assess the results gained from the pilot</p>	<p>Sources of verification:</p> <p>Staff time sheets; project reporting;</p> <p>Quarterly data reports; final result assessment report</p> <p>Cost: € 72,767</p>	
WP4	<p>Activity 4.1: Communication, Dissemination and Promotion Plan</p> <p>A communication plan is to be drawn up to be followed as guidelines by all the partners in the implementation of the communication and promotion activities</p> <p>Activity 4.2: Communication</p> <p>Project communication in Malta and Sicily aimed at informing the general public of the EU funds</p>	<p>Province of Caltanissetta to coordinate implementation of WP5</p> <p>The CDP plan is to be decided and drawn up between the partners</p> <p>Press release at the inception of the project; a press release before the inception of the pilot; a press release at the end of the pilot implementation</p>	<p>Staff timesheets; meeting minutes travel costs; finalized plan</p> <p>Cost: € 5,000</p> <p>Copy of press releases; complete and updated website</p>	

	<p>attained, the activities they will be spent on and progress update on the implementation</p> <p>Activity 4.3: Promotion</p> <p>The activities to be implemented through this project will be promoted to as wide a target group as possible</p>	<p>period</p> <p>Creation of website through external expertise to be maintained throughout the project</p> <p>Bill boards and posters will be erected at areas where the project will be implemented and will clearly state the name and logo of the programme funding the activities; all equipment will be labeled clearly to show the EU programme funding that equipment; labeling of FEVs will double as promotion for clean energy vehicles</p>	<p>Cost: € 34,000</p> <p>Promotional material in place before the launch of the pilot action</p> <p>Cost: € 67,127</p>	
	<p>Activity 4.4: Dissemination of results</p> <p>Results gathered during the pilot action will be disseminated to stakeholders and the general public</p>	<p>Final conference will be held targeted to all stakeholders in order to disseminate the results achieved through the project; a brochure will be published and distributed to explain the activities undertaken and the</p>	<p>Agenda, invitations and minutes from final conference; travel costs; staff timesheets; published brochure</p> <p>Costs: € 8,214</p>	

			results achieved			
						<p>Overall pre-conditions</p> <p>Conditions within the internal organizations of participating partners remain in a position to support the implementation of this project.</p> <p>Government policies towards greening of transport and port areas remain favourable</p>

42. DESCRIPTION OF WORK PACKAGES

WP N.	WORK PACKAGE TITLE	Responsible Partner	Involved Partners	COST €
WP 1	Management and coordination	Transport Malta	All	173,781
WP 2	Cross-border Joint Energy Action Plan	Port of Catania	All	185,127
WP 3	Pilot - Greening Port Areas	Transport Malta	All	2,026,751
WP 4	Communication, Capitalisation and Publicity	Province of Caltanissetta	All	114,341

WORK PLAN

43. ACTION PLAN

Work-Package n.	Activities	Start (mm/yy)	End (mm/yy)	Description of Activities	Responsible Partner	Involved Partners	Localization of the activities	Outputs	Costs €
WP 1	1.1	July 2012	August 2012	Signing of subsidy contract with Managing Authority; Negotiation and signing of Partnership agreement	LP	All	Valletta	1 Grant Agreement with Managing Authority; 3 Partnership Agreements between LP and each of the PP	9,000
	1.2	August 2012	November 2014	6 monthly steering committee meetings, missions, quarterly progress reporting from all partners	LP	All	Valletta, Caltanissetta, Catania	6 SC meeting minutes; 6 mission reports; staff time sheets	102,781
	1.3	Dec 2012	October 2014	Delivery of Progress reports to MA; Delivery of Financial reports to MA	LP	All	Valletta, Caltanissetta, Catania	8 Monitoring reports	31,000
	1.4	August 2012	October 2014	Contracting of independent auditor; payment certification; compilation of payment claims by all PP, compilation of request for payments by LP	LP	All	Valletta, Caltanissetta, Catania	6 financial requests	31,000
WP 2	2.1	Sep 2012	March 2013	Coordinated strategic cross-border plan to implement the technical WPs to this project	PP2	LP, PP4	Valletta, Caltanissetta, Catania, Gozo	1 joint cross border action plan providing guidelines to be followed by partners during technical implementation	26,638
	2.2	Sept 2012	August 2014	Creation of local plans for future implementation of green energy actions to de-carbonise port areas	PP2	All	Caltanissetta, Catania	2 strategic local plans for the implementation of further policies to de-carbonise port areas in	72,000

								the future	
	2.3	Sept 2012	March 2013	Strategic Environmental Overview to evaluate ex-ante the actual and future environmental efficiency in the ports and port areas	PP2	N/A	Catania, Caltanissetta	2 SEO Report	41,500
	2.4	Sept 2012	Aug 2014	A study on the feasibility of implementing shore-side energy supply for vessels berthing in the port of Valletta, outlining the number of such berths, their optimal locations as well as gauging the feasibility of such a system.	LP	MRRA	Valletta, Gozo	1 Feasibility study to allow policy makers to assess and plan the future implementation of a shore-side energy supply system	44,989
WP 3	3.1	Nov 2012	June 2013	Purchase and installation of PV panels, charging infrastructure, and full electric vehicles	LP	All	Valletta Grand Harbour; Gela Harbour	Transport Malta to cover a surface area of 1,460 sq/m with PV panels; Deployment of 15 FEVs; installation of 6 charging points; installation of 4 solar power charging stations; project reporting; staff time sheets; supply contracts	1,092,612
	3.2	Nov 2012	June 2013	Purchase of solar car-charging infrastructure to be used by full electric vehicles	PP3	PP2	Valletta Grand Harbour; Catania harbour	MRRA and Port of Catanta to install 4 solar power charging stations; project reporting; staff time sheets; supply contracts	861,372
	3.3	July 2013	June 2014	The pilot action will be implemented over a twelve-month period to study whether the amount of power generated by solar panels on site is enough to offset the power utilized by electric vehicles used within port areas and to assess whether electric vehicles are suitable vehicles to be used in port operations. Qualitative and quantitative data will be collected throughout the pilot. A final report	LP	PP2, PP3	Valletta, Gela, Catania	1 strategic assessment on whether solar power produced locally is sufficient to offset the energy necessary to power electric vehicles used to service port operations with the aim of maximizing results	72,767

				will be compiled to assess the results gained from the pilot.				achieved through this pilot.	
WP 4	4.1	Sept 2012	October 2012	Creation of Communication plan to be followed by all partners as a guide to the result dissemination and promotion of project activities during project implementation	PP4	All	Valletta, Gela, Catania, Gozo	1 Communication plan to be complete by October 2012	5000
	4.2	Nov 2012	Ongoing	Creation of project Website to be set up and maintained throughout the project and after project end; Press releases to inform the general public on progress of project implementation	PP4	All	Valletta, Gela, Catania, Gozo	1 project website; 3 press release in Malta; 3 press release in Sicily	34,000
	4.3	Nov 2012	October 2014	Design, procurement and dissemination of promotional material	PP4	All	Valletta, Gela, Catania, Gozo	Promotional material to be set up at areas of implementation	67,127
	4.4	July 2014	September 2014	Results gathered during the pilot action will be disseminated to stakeholders and the general public. This will be done through the publication and dissemination of a brochure that will compile within it all the results attained and the organization of a final conference to which all stakeholders will be invited to. Project results will also be published on the project website.	PP4	All	Valletta, Gela, Catania, Gozo	1 Final Press Conference and publication of 1 brochure	8,214

44. OUTPUTS PER PARTNER

Partn er n.	Partner 's Name	Work packag e n.	Activity n.	Output	Start	End	Cost €
LP	Transport Malta	WP1	1.1	Signature of Grant Agreement between with MA; Signature of Partnership Agreements between LP and all PP.	July 2012	August 2012	3,000
			1.2	Meeting minutes from 2 SC; Attendance sheets from 4 SC; Reports from 6 missions	August 2012	November 2014	29,417
			1.3	8 Monitoring reports to MA	December 2012	October 2014	8,000
			1.4	6 payment certifications; 6 payment claims; 6 payment requests	December 2012	October 2014	8,000
		WP2	2.1	Contribution towards compilation of 1 cross border Action Plan	Sept 2012	March 2013	12,138
			2.4	1 Feasibility Study to focus on the ports of Valletta, Cirkewwa and Mgarr (Gozo)	September 2012	August 2014	44,989
		WP3	3.1	to cover a surface area of 1,460 sq/m with PV panels; Deployment of 8 FEVs; installation of 2 charging points	November 2012	June 2013	664,812
			3.3	4 periodic data; 3 waves of surveys from EV users; final report by August 2014	July 2013	June 2014	35,467
		WP4	4.1	Assistance in the creation of a Communication Plan; staff time sheets	September 2012	October 2012	1,000
			4.2	3 Press release; continuous input in website	August 2012	Ongoing	2,000
			4.3	Deployment of Promotional material; logos to be put on all equipment and infrastructure	November 2012	October 2014	14,177
			4.4	Attendance at final conference; input in brochure	July 2014	September 2014	2,000
PP 2	Port of Catania	WP1	1.1	Signing of Partnership agreement	July 2012	August 2012	4,000
			1.2	Attendance sheets from 4 SC meetings; Meeting minutes from 2 SC meetings; staff time sheets	August 2012	November 2014	36,000
			1.3	8 progress reports to LP	December 2012	October 2014	12,000
			1.4	6 certifications and request for payments to LP	December 2012	October 2014	9,000
		WP2	2.1	A joint cross border action plan providing guidelines to	Sept 2012	March 2013	4,500

PP3	MRRA			during technical implementation			
			2.2	Catania Local Action Plan	September 2012	August 2014	36,000
			2.3	An ex-ante assessment of the actual and future environmental efficiency at Catania port and proximities	September 2012	April 2013	25,500
		WP3	3.1	Deployment of 3 FEVs; Installation of 1 solar charging station; installation of 1 fast charging point	November 2012	June 2013	171,200
			3.2	Installation of 1 solar power charging station	November 2012	June 2013	174,400
			3.3	4 Progress reports	July 2013	June 2014	9,300
		WP4	4.1	Assistance in the creation of a Communication Plan; staff time sheets	September 2012	October 2012	1,000
			4.2	continuous input in website	August 2012	Ongoing	2,000
			4.3	Deployment of Promotional material; logos to be put on all equipment and infrastructure	November 2012	October 2014	13,600
			4.4	Attendance at final conference; input in brochure	July 2014	September 2014	1,500
		WP1	1.1	Signing of Partnership agreement	July 2012	August 2012	1,000
			1.2	Attendance sheets from 6 SC meetings; staff time sheets	August 2012	November 2014	10,384
			1.3	8 progress reports to LP	December 2012	October 2014	3,000
			1.4	6 certifications and request for payments to LP	December 2012	October 2014	7,000
		WP2	2.1	Contribution towards compilation of 1 cross border Action Plan	Sept 2012	March 2013	1,000
			2.4	Contribution towards 1 Feasibility Study	September 2012	August 2014	4,000
		WP3	3.2	Installation of 3 solar charging points	November 2012	June 2013	686,972
			3.3	4 Progress reports	July 2013	June 2014	18,000
		WP4	4.1	Assistance in the creation of a Communication Plan; staff time sheets	September 2012	October 2012	1,000
			4.2	continuous input in website	August 2012	Ongoing	7,000
			4.3	Deployment of Promotional material; logos to be put on all equipment and infrastructure	November 2012	October 2014	7,930
			4.4	Attendance at final conference; input in brochure	July 2014	September 2014	2,714
		WP1	1.1	Signing of Partnership agreement	July 2012	August 2012	1,000

	Province of Caltanissetta		1.2	Attendance sheets from 5 SC; Meeting minutes from 1 SC meeting; staff time sheets	August 2012	November 2014	26,980
			1.3	8 progress reports to LP	December 2012	October 2014	8,000
			1.4	6 certifications and request for payments to LP	December 2012	October 2014	7,000
		WP2	2.1	Contribution towards compilation of 1 cross border Action Plan	Sept 2012	March 2013	9,000
			2.2	Local Plan for Gela port area	September 2012	August 2014	32,000
			2.3	An ex-ante assessment of the actual and future environmental efficiency at Gela port and proximities	September 2012	April 2013	16,000
		WP3	3.1	Deployment of 4 FEVs; 3 charging points	November 2012	June 2013	256,600
			3.2	4 progress reports	July 2013	June 2014	10,000
		WP4	4.1	Communication plan to be used as a guide for the promotion of project material and dissemination of project results	September 2012	October 2012	2,000
			4.2	Creation and maintenance of 1 project website; 3 press release	August 2012	Ongoing	23,000
			4.3	Promotional material to be set up at areas of implementation; logos to be put on all equipment and infrastructure	November 2012	October 2014	31,420
			4.4	Final Press Conference and publication of brochure	July 2014	September 2014	2,000

45. TIMETABLE (GANTT CHART)

YEAR MONTHS	2012												2013												2014												
	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	
WORK PACKAGE																																					
Work Package 1																																					
Activity 1.1							X	X																													
Activity 1.2									X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
Activity 1.3												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
Activity 1.4												X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
Work Package 2																																					
Activity 2.1								X	X	X		X	X	X	X																						
Activity 2.2								X	X	X		X	X	X	X	X	X	X	X		X	X	X	X	X	X	X	X									
Activity 2.3								X	X	X		X	X	X	X																						
Work Package 3																																					
Activity 3.1											X	X	X		X	X	X	X																			
Activity 3.2											X	X	X		X	X	X	X																			
Activity 3.3																			X	X	X		X	X	X	X	X	X									
Work Package 4																																					
Activity 4.1										X																											
Activity 4.2								X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
Activity 4.3											X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X									
Activity 4.4																															X	X	X				

DEVELOPMENT METHOD

46. MANAGEMENT ORGANISATION

Lead Partner (LP) – Project Coordinator (PC) will be leading the administrative side of the project through the Integrated Transport Strategy Directorate (ITSD) within TM formed by Chief Officer, Senior Manager, Manager, Ass. Manager & secretarial staff. LP will be responsible for the coordination of actions within TM & between all partners. LP will ensure that implementation is done on time, serve as the main communicator between MA, Certifying Authority & Beneficiaries, collect & submit all procedural reports. Catania Port Authority shall lead implementation of actions in Sicily. Each partner will be responsible to draft tenders for actions to be implemented in the respective territories however the PC within TM will ensure that all official procedures are adhered to. PC will liaise with Finance Unit within TM too coordinate procedural financial tasks. A project Steering Committee will be created & chaired by the LP and periodic meetings will be held to monitor progress. Tele-conferences will be organised when matters need to be dealt with urgently.

47. ORGANISATION OF THE COMMUNICATION AND INFORMATION ACTIVITIES

The lead partner shall be responsible for the Information activities

Press release:

- first quarter of implementation to inform the general public of the EU funds, and the programme funding the grant. Activities & expected results will be communicated.
- end of project to mark the end of the project & results achieved

Conference: held during the final quarter of the project, the LP will be responsible for the organisation of the conference, stakeholders will be invited & results will be disseminated. Each partner will be responsible to present the activities implemented in their respective geographical area.

Visibility: a permanent plaque will be attached to all fixed equipment bought & installed through this project. The plaque will display the emblem of the EU and reference to the EU programme funding that equipment. Vehicles bought through this project will be wrapped with the ERDF Malta-Italia logo and a slogan saying that the vehicles run on electric power to maximise their demonstrative purpose.

Each partner will be responsible to set up the publicity on the equipment bought by the respective partner. The LP will be responsible to ensure uniformity and compliance. The design of the publicity material will be purchased through a tender.

Website: A website will be created within the first six months of the contracting stage in order to explain the EU funding programme, activities to this project & the results achieved. The website will be updated regularly throughout the project and maintained after its completion. The LP will lead the coordination of the website while every partner will be responsible to input their respective activities.

48. PROJECT FEASIBILITY

Transport Malta, Catania Port Authority and Province of Caltanissetta will ensure the continued operation of the equipment and infrastructure installed through this project within each respective areas of implementation.

Transport Malta and other Italian partners will keep the infrastructure and equipment installed and maintain them using own funds.

The partnership network created through this network will be kept with the LP seeking updates from the other partners to give an overview of the level of maintenance and continued operations of the project activities.

49. POTENTIAL FUTURE PROJECT DEVELOPMENT

Cross Border Energy Local Plans: Local plans to be created as part of this project as policy guidelines for future decarbonisation of port areas. Such plans will be gradually implemented depending on available resources.

Study on shore-side supply: If the results of the study prove to be sustainable, such technology will be deployed gradually in the future on the basis of the recommendations. Therefore, if the use of electricity is found to be more feasible than to leave the vessels powered up by the use of heavy fuel oil, a demonstration project will be implemented after the end of this project subject to future financial availability.

The electric vehicles and charging points purchased through this project will be maintained to operate in and around the port areas after the end of the project, thus maintaining the emissions-free land transportation introduced by this project. Similar infrastructure will be deployed in the future if these actions are found to be sustainable.

The results obtained after examining the efficiency of PV infrastructure will be used to justify such a policy, where permitted, to be adopted in port areas.

The effects of the demonstration of the electric vehicles as part of Action 4 will be felt after the results are disseminated at the end of this project. Therefore, further market take up of electric vehicles in port areas & hinterlands will be expected after project end.

50. COHERENCE WITH THE REGIONAL AND NATIONAL PLANNING (QSN AND NSRF)**QSN 2007/13:**

The project is coherent mainly with the Priority 3 "Energy and Environment: sustainable and efficient use of resources for development", and also affects transversely Priority 6 "Networks and mobility connections" and 2 "promotion, enhancement and dissemination of research and innovation for competitiveness "

NSRF:

Strategic Objective 2: Improving Malta's attractiveness and the quality of life

- Environment risk prevention
- Energy

51. COHERENCE OF THE PROPOSED OBJECTIVES WITH THE STRATEGY OF THE SICILIAN ERDF PROGRAMME, EAFRD PROGRAMME, ESF PROGRAMME AND THE MALTESE NSRF*PO FESR Sicilia 2007/13*

The project is complementary mainly with the axis 2 "Efficient use of natural resources", and with its specific objective 2.1 "To promote the use of renewable sources and encourage the rationalization of energy demand, adjust and monitor the production facilities and distribution networks ".

Furthermore, the project is transversal to the axis 1 "Networks and mobility connections" and in particular with the operational objective 1.2.2 "To develop the regional port"

NSRF SO2:

Environment and risk prevention

Practices pertaining to sustainable development should be embedded in every policy formulated by Government. Air emissions and air quality are considered priority areas (p.81) whose improvement directly affects the quality of life of citizens – this will be tackled directly through this project.

Energy

With the main objective of minimising the dependability on fossil fuels and achieving carbon neutrality in port areas, this project is considered as a top priority in the NSRF; *The need to reduce the use of fossil fuels to mitigate the impact of their rising prices on the national economy and of the resultant emissions on climate change, is increasingly assuming the role of top national priority(p.83)*

Government will continue to lead by example through the adoption of energy efficient practices in the public sector (p.83) this project is one such initiative where TM and MRRA are leading the way with renewable energy vehicles and solar energy in port areas where air quality improvements will be felt by both residents and tourists thus positively affecting the quality of life and socio-economic growth.

Solar energy to be produced as a result of this project is recognised by the NSRF *as an effective contributor to security of supply and is regarded as a sound policy option towards promoting environment-friendly energy production (p.83)*

52. COHERENCE OF THE PROPOSED OBJECTIVES WITH LISBON STRATEGY

This project contributes towards the *EU's transition to the low-carbon, resource- and energy-efficient economy*, and the flagship initiative **Transition to a Resource Efficient Europe**. By using green vehicles at ports and studying ways how to operate the ports using renewable energy, this project is contributing *towards delivering a smooth & ambitious decoupling of carbon and resource use from economic growth*. In small island economies, ports are one of the major sources of economic generation, therefore by studying ways how to fuel port operations by using renewable energy this project is directly contributing towards the decoupling of economic growth from carbon and resource use.

This project also contributes towards developing & deploying **clean and energy-efficient vehicles** by introducing electro-mobility in ports areas. This pilot will have a two-tier effect. First there is the element of demonstrating the feasibility of EVs compared to their combustion engine counterparts with the aim of showing different uses that can be made with different classes of 2nd generation EVs – their efficiency, design, durability – in a bid to encourage wider use of electric mobility to improve air quality within ports.

Secondly, the project will test the extent to which vehicles can be charged directly through PV panels on location. If successful this will achieve carbon neutral road transport in ports as well as encourage the take up of solar powered transportation on a wider scale – this fits directly with Lisbon Strategy and EU policy and legislation.

Finally the project will compile energy plans for green actions to be implemented in the future to further maximize the results achieved through this project. These green plans will include a feasibility study to investigate whether shore-side energy supply for berthing vessels is feasible in order to have berthing vessels connecting to the national electricity grid instead of using heavy fuel oil in ports. Therefore, this project will also pave the way for further achievement of the above mentioned EU objectives.

53. COHERENCE WITH EQUAL OPPORTUNITY (reference point 7)

Project Results: The activities that this project will implement are aimed at improving quality of life of residents and visitors within port areas as well as boosting socio-economic growth by making port areas more attractive – this will be especially felt when considering that port areas, in themselves, are a tourist attraction (the Valletta Waterfront being a case in point). This means that equal opportunities will be targeted by improving the air quality and quality of life for citizens living in port areas.

Project Implementation: Official tendering procedures will be followed during the purchase of equipment and services needed to implement this project, hence all equal opportunity rules will be followed.

When preparing the publicity material for this project, the beneficiaries will ensure that such material is free from stereotypes that may be deemed discriminatory.

Any job opportunities that arise as part of this project will be treated on the grounds of merit thus emphasising that qualified personnel benefit, irrespective of their gender.

54. SYNERGIES WITH OTHER PROJECTS AND ACTIVITIES PLANNED IN ITALIA-MALTA 2007-2013 PROGRAMME AND/OR IN OTHER PROGRAMMES, IN PARTICULAR OTHER OBJECTIVE 3 TERRITORIAL COOPERATION PROGRAMMES

Program: Life+

Project: DemoEV

Duration: 2010 - 2014

Total Budget: 1,888,010

Partners: MRRA, TM, EneMalta, Ministry of Gozo

Connection: DemoEV is a demonstration project that introduces EVs in Malta to be used by households & carriage of goods for last mile deliveries within urban centres. The project demonstrates 2 vehicle types (B&C) for 12 months. The vehicles' feasibility, efficiency, charge range & design are demonstrated to the general public with the aim of widening the use of green transport. The project also introduces the concept of public charging points to be installed at different strategic points to be used by EV owners while at work/shopping etc.

Potential Synergies: While DemoEV demonstrates the general use of new generation electric vehicles, PortPVEV demonstrates a specific use of the vehicles for port operations. Combined together these two projects show different scenarios where EVs can be functional & help break current perceptions that EVs are inefficient and short ranged. While DemoEV demonstrates the feasibility of EVs for domestic and commercial uses, PORT PVEV demonstrates their use in industrial applications, while simultaneously studying the extent to which carbon neutral transport can be achieved.

Program: Interreg III B Medocc

Project : EMERGENCE 2010 – Etudes en Méditerranée pour des Energies Renouvelables Garantissant l'Electrification de Noyaux de Croissance Ecologique en 2010

Duration : 2007 – 2009

Total budget : 1.210.000,00

Partners : Région Provence-Alpes-Côte d'Azur, Préfecture du Dodécanèse (Région Sud Egée, Grèce), Conselleria de Comercio, Industria i Energia (Région Iles Baléares, Espagne), Cres Centre des Energies Renouvelables (Grèce), Province Régionale de Caltanissetta, Province de Cagliari

Object : Promotion of renewable energy in decentralized areas

For this section, you have to send to the MA the Excel files that are an integral part of the application form

55. SUPPLEMENTARY INFORMATION CONCERNING THE FINANCIAL ALLOCATION

Equipment and services: the cost budgeted for in this proposal for equipment and services to be purchased was calculated after quotations were gathered from suppliers and service providers, therefore the equipment cost is based on current market prices.

Staff costs: cost for staff costs were budgeted based on the actual salaries of the officers and experts to be working on this project and who are already employed by the beneficiaries. The cost budgeted for the project manager to be recruited to work on this project has been budgeted according to the official salary guidelines given by the Maltese Government for such expertise

Travel and subsistence: cost for traveling has been based on an average taken from actual cost of flights from Malta to Sicily. Subsistence allowance was calculated according to the list of subsistence allowance supplied by the EU Commission.

61. OUTPUT

Work package	Indicator	Unit of measurement	Target
WP 1 Management and Coordination	3 partner agreements	3	3
	5 steering committee meetings	5	5
	4 missions	4	4
	6 audit certificates	6	6
WP 2 Cross Border Joint Energy Action Plan	1 Cross border action plan	1	1
	3 Local Plans	3	3
	1 Strategic Environmental Overview	1	1
WP 3 Pilot – Greening Port Areas	1,460.76 m/sq PV infrastructure	1,460.76 m/sq	1,460.76 m/sq
	15 Full Electric Vehicles	15 vehicles	15 vehicles
	6 charging points	6 charging points	6 charging points
	4 solar charging stations	4 solar charging stations	4 solar charging stations
WP 4 Communication, Capitalisation and Dissemination	1 Communication Plan	1	1
	6 Press Release	6	6
	8 Bill Boards	8	8
	10 posters	10	10
	1 website	1	1
	1 Brochure	1	1
	1 Final Conference	1	1

62. RESULT INDICATORS (contribution to the Priority Axis)

Tick Box	Indicator	Unit of measurement	Target
<input type="checkbox"/>	R&ST actions that involve public entities, research institutions, Universities and enterprise organisations	Number of the involved organizations	

X	Actions of awareness even to SME's for the utilisation of eco-compatible models in the tourism sector, management and supply of natural resources	Number of the subjects (including SMEs) reached by the actions	494,546 (passenger traffic in the port of Valletta)
<input type="checkbox"/>	Actions of territorial marketing and joint promotion of tourism and cultural potential of the cross-border area	Number of countries/tour operators reached by the actions	
<input type="checkbox"/>	Actions aimed at the improvement of the coordination and accessibility of transportation systems in the programme area	Number of actions	
X	Actions of promotion in favour of the reconversion of the transport system respecting environmental sustainability and with particular reference to the reduction of greenhouse gas emissions	Number of promotion interventions	3
<input type="checkbox"/>	Actions aimed at the realisation and promotion of a brand of environmental sustainability even for the minor islands of the programme area	Number of users reached by the promotion actions	
X	Actions that promote the strengthening of the institutional partnership in the cross-border area	Number of involved bodies	4
<input type="checkbox"/>	Actions of management and prevention from natural and anthropic risks (including technological risks)	m ² of interested surface area	
<input type="checkbox"/>	Actions aimed at promoting the safeguarding of the environment of the cross-border area	m ² of area involved in the actions	
<input type="checkbox"/>	Actions aimed at promoting the management of parks and protected areas	m ² of area involved in the actions	
X	Actions relating to the improvement of the energy efficiency and the utilisation of sources of renewable Energy	Kw energy from sustainable sources	3 mio
<input type="checkbox"/>			
<input type="checkbox"/>			
<input type="checkbox"/>			

63. INDICATORS AT PROGRAMME LEVEL

Tick Box	Indicators	Unit of measurement	Target
<input type="checkbox"/>	The project promotes the use of common infrastructure		
X	The project develops partnerships in the public services sector	Number of public bodies involved	4
<input type="checkbox"/>	The project reduces insularity through better transport accessibility, ICT networks and services		
X	The project encourages and improves the protection and common management of the environment	Number of interventions in partner port areas	3

<input type="checkbox"/>	The project contributes to the management of natural and anthropic risks		
<input type="checkbox"/>	The project promotes R&ST and innovative networks		
<input type="checkbox"/>	The project jointly promotes tourism in the cross-border area		
X	Public institutions (regional, local) that cooperate on a cross-border level	Number of public bodies involved	4

64. PARTNER DECLARATION AND CONTRIBUTION STATEMENT

The lead partner of the project named DEMONSTRATING HOW TO MAKE PORTS MORE ENERGY EFFICIENT AS WELL AS DEMONSTRATING THE USE OF ELECTRIC MOBILITY IN PORTS AND PORT AREAS in the person of the legal representatives Stanley Portelli, on behalf of all partners and in accordance with the letters of intent subscribed by all partners involved in this project proposal:

REQUESTS

☒ to the Managing Authority a community contribution and the corresponding Italian national public co-financing estimated in the project financial plan;

AND DECLARES

under the effects of articles 46 and 47 of the D.P.R. 28.12.2000, n° 445

☒ that Maltese partners signed the declarations concerning the national co-financing envisaged in the project financial plan;

☐ that partners _____ undertake to finance the project with an additional financing equal to € _____ respectively per _____ partner _____;

☒ that no partner has received any aid or public contribution, in full or part, from the EU, the state or other public entities, for activities foreseen in this project proposal;

☒ that all the information listed in the Application Form corresponds to the truth;

☒ that the files contained in the CD-Rom sent jointly with the Application Form are true copy with the hard copy of the Application Form sent;

☒ that the project proposal does not duplicate (neither in part) existing projects financed in the frame of the cohesion policies tools foreseen for the programming periods 2000-2004 and 2007-2013;

☒ that any equipment listed under the line item "EQUIPMENT" has not been funded through other programmes and/or European funds;

☒ to be aware that any data included in the project proposal will be used, also through information systems, in the framework and for the purpose of public procedures, and in conformity to the national legal requirements and/or European Regulation Data management and thus do not require any authorisation from the interested party according to Art.18 of the D.Lgs. 196/2003;

AND ENSURES

☒ to fulfil the duties assigned to the Lead Partner as envisaged by the European Community framework and by the public notice regulations for the first call for proposal for ordinary projects under the OP Italy-Malta 2007-2013;

FOR THE LEAD PARTNER

Surname: Portelli

Stamp and signature

Name: Stanley

Legal representatives of: Transport Malta

Signature

Position : CEO

