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Case Study Template

Please fill in the form below. Do not exceed the length of 3 pages.

Project Details		
Project Name:	Opportunities for Community groups Through Energy Storage	
Acronym:	OCTES	
Preparatory Project Name (if applicable):		
Start Date:	15.03.2011	
End Date:	15.03.2013	
Priority and Objective (tick one priority and one objective):	<input type="checkbox"/>	Priority 1: Promoting innovation and competitiveness in remote and peripheral areas
	<input type="checkbox"/>	i. Innovation, networks and competitiveness
	<input type="checkbox"/>	ii. Accessibility
	<input checked="" type="checkbox"/>	Priority 2: Sustainable development of natural and community resources
	<input checked="" type="checkbox"/>	i. Environment as an asset in the periphery
	<input type="checkbox"/>	ii. Urban-rural development and promotion of heritage
Total Budget:	€1,260.16	
Total NPP Funding:	€731,199.46	
Project website:	www.octesnpp.eu	
Lead Partner		
Title of Institution in English:	University of the Highland and Islands-Lewis Castle College	
Address/P.O. Box:	Castle Grounds	
Postcode:	HS2 0XR	
Town:	Stornoway, Isle of Lewis	
Country:	Scotland	
Contact Person		
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Partnership	Title of Institution in English	Country
Partner 2	Oulu University of Applied Science (OUAS)	Finland
Partner 3	National Energy Authority (NEA)	Iceland
Partner 4	University of Ulster (UoU)	Northern Ireland
Partner 5	International Resource and Recycling Institute (IRRI)	Scotland
Partner 6	University of Iceland (UoI)	Iceland
Partner 7		
Partner 8		
Partner 9		
Partner 10		
Project Description		

Synopsis:	<p>OCTES (Opportunities for Communities Through Energy Storage) aims to provide a new service which accelerates the uptake of renewable energy as a practical and financial viable choice. This will be achieved through the innovative use of smart meters.</p> <p>There is great potential for the development and uptake of Renewable Energy Options (REO) in the Northern Periphery due to the abundance of natural renewable energy generating resources. Unfortunately, many REO are intermittent and expensive as a result of high capital cost and constant variation in energy generation. In order to manage existing renewable energy (RE) installations and create other financially viable REO, it may be necessary to encourage behavioural change in the consumer.</p> <p>The introduction of smart meters facilitates the required transition to more efficient and economical energy use. They comprise of a basic meter which has a two-way flow of energy information and an in-home display which provides consumers with real-time information on their energy consumption between supplier and consumer. With real-time information, such as how much energy is being used, smart meters allow consumers and suppliers to engage in a dialogue concerning their energy consumption.</p> <p>The OCTES project is a suite of trials which aims to enable the uptake of efficient use of RE in rural and peripheral areas by encouraging behavioural change such that it becomes a supply driven energy usage facility . To do this, OCTES will employ smart meters programmed with real-time pricing tariffs that vary depending on the renewable energy supply or demand.</p> <p>Excess energy can be potentially stored but at present storage options for a small scale community energy renewable scheme are too expensive. By linking a variable pricing approach with energy availability and consumer patterns of usage it hopes to open a range of options that will make a small scale storage facility cost effective and available to rural communities.</p>
Aim and Objectives:	<p>The overall objective of OCTES is to increase the viability of renewable energy solutions in the NPP region, by influencing consumer behaviour. This new approach can lead to long term efficient sustainable management and utilisation of resources at a transnational level.</p>
Expected Outcomes (please mention products/services):	<p>The expected outcome of OCTES' Integrated renewable energy management service is to enable new and existing advisory services to offer solutions to community renewable energy groups involved with RE developments with particular focus on micro generation. This will permit community groups and/or individual house holders to plan and design their system to function with new smart grid technology developments that are tailored to individual needs.</p>
Outcomes Achieved:	<p>Outcomes achieved in the last 6 month include; completion of trial participant selection and phased installation of trial equipment to the participants premises.</p> <p>Further development of the consumer interface including consumer interaction with the trial android tablet in relation to energy use. Implementation of market pricing connections to WP4 and trial homes. Continuous development and testing of system operations including monitoring performance and maintenance.</p> <p>Continuous development of the service aspect of the OCTES project in conjunction with the Scottish Energy Saving Trust.</p>
Information & Communication	
Project Message:	
Project Publications (brochures, presentations, etc.):	<ul style="list-style-type: none"> ▪ Arctic Frontier conference presentation ▪ PowerPoint Presentation Scottish Regional NPP meeting ▪ Partner presentations to regional stakeholders

These documents can be submitted both electronically and in paper. They should also be uploaded to the website.	
Date Submitted:	dd.mm.yyyy

Please note that you are also expected to complete and update your online project profile on www.northernperiphery.eu, once it becomes available.

Kind regards,

Northern Periphery Programme Secretariat