Project ID	DIP014	DIP014			
Long Title	Coupling Renewable, Storage and ICTs, for Low carbon Intelligent Energy management at district level				
Short Title	RESILIENT	RESILIENT			
Keywords	Bioenergy; CHP; Th	Site; Town; Non-domestic; Electricity; Heat; Solar PV; Bioenergy; CHP; Thermal Storage; Smart Grids; Microgrids; District Heating; Social Impacts;			
Location (Town, Region, Country)	Ebbw Vale	Blaenau	Gwent	Wales	
Latitude and Longitude	51.78N	51.78N 3.20W		V	
OSGB code	SO 170 093	SO 170 093			
Status	Complete	Complete			
Start Date	2012	2012			
End Date	2016	2016			
Description	assess the energy integrated conceptions and other neapproach will comincluding smart ICT and storage technologies.	The RESILIENT project aims to design, develop, install and assess the energy and environmental benefits of a new integrated concept of interconnectivity between buildings, DER, grids and other networks at a district level. The RESILIENT approach will combine different innovative technologies including smart ICT components, optimized energy generation and storage technologies, also for RES, integrated to provide real time accounts of energy demand and supply at a district level and assist in decision-making process.			
	The project strategy relies on a comprehensive R&D and demonstration approach. The proposed integrated concept will be first modelled and simulated for different typologies of buildings and different climates and then installed, monitored and evaluated in three pilot projects (including residential and non residential buildings) in the UK, Belgium and Italy. These demonstrators will be used to assess the energy and environmental benefits of the new integrated concept and also to validate models and technologies in order for the concept to be easily replicable throughout different climatic areas.  The Ebbw Vale site (UK), known as "The Works" combines				
	multiple newly corvarying sectors (edhectare site that worked in 1982. Deenabled the site to attached to the Dissince the beginnin and two 17,500l that out at EbbW Vale I Energy Manageme	nstructed buildidication, commers formerly occurs formerly occurs for suitable for strict CHP network of RESILIENT, permal storage feat output of Ear Photovoltaic Pilot site in the ent Strategy was	ngs that ercial and cupied by mediation develop ork coming two 490 tanks have energy Cemodules Learning salso int	operate within d leisure) on a 78- y a steelworks, which on work subsequently ment, with buildings ng on stream in 2012. kW biomass boilers ye been installed with entre to 7780kW. has been also carried zone. A new Building	

	real time losses resulting in closer to 100% of generated heat	
	being retained.	
Sectors	Non-domestic	
Funding Sources	FP7 Energy	
Budget £	€1.17 million (UK element)	
Partners	Cardiff University, BRE, Blaenau Gwent County Borough Council	
Energy vectors	Electricity, Heat	
Scale (lab/site/	Site	
small/community/region/national)		
,, ,		
Technologies demonstrated	Smart controls, thermal storage, solar PV, microgrids, CHP,	
	biomass boiler, building management system	
Economic models demonstrated	Private wire microgrid	
Other concepts demonstrated		
Industry engagement		
Consumer engagement		
Project Reports (incl. links)	https://cordis.europa.eu/result/rcn/192602_en.html	
Datasets (incl. links)		
Website/social media	Broken link to project website.	
Information sources	https://cordis.europa.eu/project/rcn/104392_en.html	