

A high-speed photograph of a water splash, with a central crown-like shape and numerous droplets suspended in the air above it. The water surface below the splash shows iridescent colors.

climaatlantic

local and regional actions
for carbon footprint reduction

Final Results



ATLANTIC AREA Transnational Programme
ESPACIO ATLÁNTICO Programa Transnacional
ESPACE ATLANTIQUE Programme Transnational
ESPAÇO ATLÂNTICO Programa Transnacional



European Union

European Regional
Development Fund

Climatlantic is a project co-funded by **INTERREG IVB ATLANTIC AREA Programme**, aimed at developing an Atlantic Strategic Agenda for Sustainable Urban Development and the reduction of the Carbon Footprint covering four main pillars: mobility, energy, territorial management and social behavior.



General Information

To achieve the proposed objective, project partners and their experts in the four mentioned fields have worked for two years in the theory of the Strategy, validating the content through a set of common pilot projects and promoting results within regional and local authorities concerned.

As its main results, Climatlantic has achieved:

- **1 Common Atlantic Strategy** for Sustainable Urban Development and the Reduction of Carbon Footprint.
- **1 Think Tank of experts** covering the four key fields: mobility, energy, territorial management and social behavior.
- **Link the Common Strategy** produced to the current **debate on an Atlantic Strategy** for the EU, involving cities and regions in the debate.

More information:
www.climatlanticproject.eu

CLIMATLANTIC IN FIGURES

5	Countries involved
7	Partners
1,165,175.90	Euros (ERDF funds)
26	Months of work
22	High-level experts involved
1	Common Strategy designed
4	Key fields covered
12	Pilot projects to validate the strategy developed



Partners



1-2	Spain Portugal	Eixo Atlantico do Noroeste Peninsular www.eixoatlantico.com	 EIXO ATLÁNTICO DO NOROESTE PENINSULAR
3	Spain	Xunta de Galicia www.xunta.es	 XUNTA DE GALICIA
4	Spain	Deputación de Ourense www.depourense.es	 DEPUTACIÓN OURENSE
5	France	Quimper Communauté www.quimper-communaute.fr	QUIMPER  COMMUNAUTÉ
6	France	Grand Angoulême www.angouleme-development.com	 Grand Angoulême
7	Ireland	South East Regional Authority www.sera.ie	 South-East Regional Authority Udarás Reigiúnach an Oir-Dheiscirt
8	United Kingdom	Merseytravel www.merseytravel.gov.uk	 Merseytravel

Common Atlantic Strategy for sustainable urban development and the reduction of carbon footprint

In May 2012, after two years of hard work, the think tank of the CLIMATLANTIC project finished their work and produced: a **Common Atlantic Strategy for Sustainable Urban Development and Reduction of Carbon Footprint**.

This document aims to settle the guidelines to reduce carbon footprint in the Atlantic regions and, at the same time, increase competitiveness of the productive sectors in them, **contributing to economic growth and employment**.

The strategy to reduce the carbon footprint in the Atlantic regions has to be seen as an opportunity **to transform the regions into a competitive growth area**, enhancing the socio-economic value of relevant indigenous resources and building a new development trajectory.

Derived from the analysis performed by the CLIMATLANTIC think-tank and in line with the EU 2020 Strategy, the Strategy identifies **seven priorities**:

1. To increase the use of **renewable energy** and promote **energy efficiency**;
2. To improve **mobility** patterns within the Atlantic Area;
3. To control **urban and rural sprawl**;
4. To enhance the role of the Atlantic Façade to **reduce greenhouse gas emissions** at the EU level;
5. To develop **education and communication** campaigns in order to disseminate the carbon footprint reduction approach of the Atlantic Regions;
6. To foster **research and development** in order to generate the scientific and technological foundations needed for carbon footprint reduction;
7. To include carbon-footprint-reduction-based projects as a **new priority axis** in transnational, interregional and cross-border cooperation programmes.



The document, as well as its
Executive Summary, can be
downloaded from:
www.climatlanticproject.eu

Pilot Projects

In parallel to the development of the common strategy, partners worked on a set of pilot projects aimed to prove the workability of the theories outlined in the strategy and the benefits of implementing actions in line with the goal of carbon footprint reduction.

The implemented pilot projects are contextualized in the four main pillars of the common strategy:

1. Mobility
2. Energy
3. Territorial Management
4. Social Behaviour



All the projects are concluded now and they have proved to be a very good way to involve people and main stakeholders who operate on the ground in this area.

For more information,
 please visit:
www.climatlanticproject.eu

climatlantic

www.climatlantic.co.uk is a fun and easy to use website for Primary and Secondary schoolchildren, school teachers, parents, and carers in europe, the UK and Europe. The website and interactive games, commissioned by Moxeytravel and designed by local agency Sponner Design is for people who want to find out more about the environment and smarter travel choices like using public transport, cycling and walking.

GO ON THE WEBSITE NOW
www.climatlantic.co.uk

PILOT PROJECT DESCRIPTION

M O B I L I T Y

Project Title:

A Quimper Communauté Survey To Gage The Appeal Of Park And Ride

Location:

QUIMPER CITY

1. Objectives of the Project

- To reduce and regulate the parking supply in town center proximity.
- To carry out a survey to gauge the concept's appeal among population.
- Organize a shared and sustainable mobility and aim for a better balance between travelling modes.
- Favor another mode of transportation than car
- Reduce the number of car journeys in the built up part of Quimper
- Discern the expectations and the brakes on potential users
- Protect accessibility for visitors and commuters.

2. What are the obtained results?

- An adapted user profile.
- An appealing concept.
- An estimation of prices.

3. To what extent is your pilot action transferrable to other regions?

High intensity of transferability. After the pilot action other partners could easily implement it in their regions, even without any indication from the lead partner of the pilot action.

PILOT PROJECT DESCRIPTION

Project Title:
**Mobilipro – Creation Of A Decision-Aid Tool To Design
Action Plans For Professional Movings**

Location:
GREATER ANGOULÊME, POITOU CHARENTES, FRANCE

1. Objectives of the Project

- Create software designed for professional moving and a user guide presenting how to implement more than 25 actions. Software is totally free of use.
- Define a list of possible actions regarding their economic, environmental and social impacts in order to mitigate greenhouse gases emissions.
- Include professional mobility actions in mobility plans (until now more focused on house/work displacements)

2. What are the obtained results?

- Realization of the decision-aid tool
- First validation of 7 action plans by the pilot partners
- Identification of actions to be implemented jointly by the pilot partners

3. To what extent is your pilot action transferrable to other regions?

Medium intensity of transferability. After the pilot action, other partners/regions could implement it in their regions

PILOT PROJECT DESCRIPTION

Project Title:

Development Of Electromobility In Greater Angoulême: Car-Sharing And Implementation Of Recharging Infrastructures

Location:

GREATER ANGOULÊME

1. Objectives of the Project

- Implementation of recharging infrastructures in the parkings of Angoulême
- Develop car-sharing with the use of electric cars
- Develop a sustainable alternative way of moving based on the involvement of local and regional industries and companies for the service management, furniture of recharging infrastructures and electric cars
- Develop a fleet for alternative uses
- Define combined tariffs for the use of all alternative ways of moving (buses, car-sharing...)

2. What are the obtained results?

- Implementation of 26 recharging infrastructures by end of 2012 in parkings
- Launch of a service of car-sharing with 6 stations, equipped with electric cars. There is two cars at every station and for every station, two others recharging infrastructures for private owners of electric cars

3. To what extent is your pilot action transferrable to other regions?

Medium intensity of transferability. After the pilot action, other partners/regions could implement it in their regions.

PILOT PROJECT DESCRIPTION

Project Title:

Carbon footprint reduction in sportive public installations using renewable energy

Location:

OURENSE, SPAIN

1. Objectives of the Project

- Optimizing the use of energy (energy-efficient consumption)
- Promotion of energy efficiency
- Reduction of CO2 emissions to the atmosphere
- Minimization of environmental impacts
- Promotion of renewable energies

2. What are the obtained results?

- Save energy, using it efficiently and wisely, to do more with less
- Using renewable energy provided by nature
- Adopting simple behaviour patterns, every single citizen can contribute to reduce substantially our energy consumption without compromising on comfort

3. To what extent is your pilot action transferrable to other regions?

High intensity of transferability. After the pilot action other partners could easily implement it in their regions.

E
N
E
R
G
Y



PILOT PROJECT DESCRIPTION

Project Title:

Assessment And Demonstration Of Measures To Reduce Electricity Consumption By Local Authorities

Location:

SOUTH EAST REGION. IRELAND

1. Objectives of the Project

The aim of this pilot project was to identify and demonstrate best in class energy efficiency measures, in each of Carlow County Council's main internal electricity-consuming activities: water supply (4 project elements), wastewater (2 project elements) and buildings (3 project elements).

2. What are the obtained results?

Initiative Name	Expected Energy Savings	Actual Energy Savings & Comments
Server Room Cooling – virtual server with new air-conditioning unit	50%	New air-conditioning unit was undersized & further monitoring required
Efficient Lighting Retrofit (T8 to T5 Fluorescent Tubes)	31%	48% or 10,000kWh
Zero Client Computers	96%	95% or 10,875kWh
Wastewater Treatment / Aeration Comparisons	40%	86% difference between best and worst practice.
Automatic Pumping Control - Installation of MultiSmart Pump Station Manager (MPSM)	15%	MPSM not functioning properly & further monitoring required
Pump Replacement & Controls	60%	43% or 29,476kWhs
Dehumidification in Water Treatment Plants – Dehumidifiers vs Storage Heaters	60%	39% or 72,275kWhs
Water Pumping – Speed Control in a Reservoir System using Variable Speed Drives (VSDs)	16%	VSDs did not reduce energy consumption & further monitoring required
Water Pumping – Night Time Pressure Reduction	15%	8% or 15,768kWhs

As part of the pilot initiatives, energy efficiency training was also provided to caretakers of water treatment and wastewater treatment plants and this will ensure that energy monitoring and verification will continue into the future.

3. To what extent is your pilot action transferrable to other regions?

High intensity of transferability. After the pilot action other partners could easily implement it in their regions.

PILOT PROJECT DESCRIPTION

Project Title:
An Energy Reduction Competition: Trak'o'watt
Location:
QUIMPER COMMUNAUTÉ. FRANCE

1. Objectives of the Project

To encourage local citizens in a battle against electricity consumption

2. What are the obtained results?

- The families were accompanied by advisers during the experiment. Through the implementation of actions and the use of small efficient equipments. The results showed a significant decrease in consumption in some positions: lighting, multimedia, and wash.
- 16% savings of electricity on average for families is 436 kwh/year or 52€ savings on the invoice

3. To what extent is your pilot action transferrable to other regions?

Medium intensity of transferability. After the pilot action, other partners/regions could implement it in their regions.

T E R R I T O R I A L M A N A G E M E N T

PILOT PROJECT DESCRIPTION

Project Title:
**Indicators For Planning New Developments With Less
Carbon Footprint**

Location:
VILA REAL. PORTUGAL

1. Objectives of the Project

- Design of one synthetic territorial indicator from several basic indicators for local planning design related to good practices in carbon footprint reduction.
- Application of the indicators to the place studied and other locations in partners' countries.

2. What are the obtained results?

- A methodology for the design of territorial indicators
- A proved indicator for testing the planning of new developments in terms of carbon footprint.
- Map of suitable urban growth places related to carbon footprint in Vila Real (Portugal)
- Test of this indicator in at least a second territory. Preferably in a different country. Probably in Vilagarcia de Arousa (Galicia – Spain). It would be interested its test also in an Irish location.

3. To what extent is your pilot action transferrable to other regions?

Medium intensity of transferability. After the pilot action, other partners/regions could implement it in their regions.

S O C I A L B E H A V I O U R



PILOT PROJECT DESCRIPTION

Project Title:
**Sustainable Development And Climate Change
Awareness In Schools**

Location:
GALICIA, SPAIN

1. Objectives of the Project

- Raise awareness on Climate Change
- Open School to environment
- Strengthen teamwork in pupils
- Promote pro-activeness

2. What are the obtained results?

- Change – oriented actions promoted by students, with impact on their close environment. 50 primary and secondary schools participated in the program.
- Teachers able to create a proactive and environmental sensible dynamic among students. More than 500 teachers participated in training courses and developed their own classroom activities.
- Platform with infographic elements able for training teachers and students from the different members countries

(www.cmati.xunta.es/axenda21/ and www.climantica.org)

3. To what extent is your pilot action transferrable to other regions?

Medium Intensity of Transferability. After the pilot action, other partners/regions could implement it in their regions.

PILOT PROJECT DESCRIPTION

Project Title:
Climatlantic Digital Resource

Location:
MERSYSIDE, UK

1. Objectives of the Project

- Develop an educational resource – website, chat and interactive games that show projects by and for young people from the UE and Europe (5-16 years old) to promote climate change, sustainable transport and environmental education awareness.
- To incentivize children and young people to visit the site with fun and interesting activities such as games or other interactives.
- To promote and disseminate information/learning resources on Climatatlantic and other best practice projects for schools and specialist practitioners.

2. What are the obtained results?

- January- September 2012: hits on the website: 26,682
- 5,089 visitors to the website
- Average pages visited: 3.48

3. To what extent is your pilot action transferrable to other regions?

High intensity of transferability. After the pilot action other partners could easily implement it in their regions.



Climatlantic

www.climatlantic.co.uk is a fun and easy to use website for Primary and Secondary schoolchildren, school teachers, parents and carers in Merseyside, the UK and Europe. The website and interactive games, commissioned by Merseytravel and designed by local agency Splitter Design is for people who want to find out more about the environment and smarter travel choices like using public transport, cycling and walking.

Climatlantic is a partnership of European countries (Ireland, UK, Portugal, Spain and France) located along the Atlantic coastline that are working and learning from each other to reduce their collective carbon footprint.

The website details Merseytravel's partners' projects that Regenerate in France and how they are using electric cars in the town to reduce the amount of fuel consumption.

Examples from other countries are incorporated into the games, quizzes, books and lesson activities. The aim is to help children share their ideas and activities with classmates locally and abroad.

The site's content for children and young people includes the games called Green Cycle, Clean Cars and Eco-Engine that address important issues.

GO ON THE WEBSITE NOW
www.climatlantic.co.uk

climatatlantic
local and regional actions
for carbon footprint reduction

European Union
European Regional
Development Fund

PILOT PROJECT DESCRIPTION

**Project Title:
Eco Cruise**

**Location:
LIVERPOOL, MERSEYSIDE**

1. Objectives of the Project

- To raise awareness of wind and tidal energy.
- To encourage informed decisions of sustainable choices of energy sources in the future.
- To encourage informed decisions of transport choices in the future.

2. What are the obtained results?

- 250 schoolchildren from 15 Merseyside primary and secondary schools attended the 3 hour cruise, they were provided with workbooks and learned about a variety of subjects in relation to sustainable development.
- Due to the success of the EcoCruise, the target market will be widened to members of the public in 2013.
- The EcoCruise is an action which can be shared with and mimicked by Climatatlantic partners (where practicable).

3. To what extent is your pilot action transferrable to other regions?

Medium Intensity of Transferability. After the pilot action, other partners/regions could implement it in their regions but they will need some help.

