



LIFE+



Environment Policy & Governance

Projects 2009



EUROPEAN
COMMISSION



environment

LIFE+ Environment Policy & Governance 2009: Commission funds 116 innovation projects in 17 countries with €120 million

The European Commission has approved funding for 116 new environmental innovation projects in 17 countries under the LIFE+ Environment Policy & Governance programme 2009. These projects will demonstrate new methods and techniques for dealing with a wide diversity of Europe's environmental problems. The projects are led by 'beneficiaries', or project promoters, based in Austria, Belgium, Cyprus, Denmark, Estonia, Finland, France, Germany, Greece, Italy, Luxembourg, the Netherlands, Portugal, Romania, Spain, Sweden and the United Kingdom. They represent a total investment of €278 million, of which the EU will provide some €120 million.

LIFE+ Environment Policy & Governance in 2009

The Environment Policy & Governance strand of LIFE+ supports pilot projects that contribute to the development of innovative policy ideas, technologies, methods and instruments. Of the 308 proposals received, the Commission selected 116 projects for funding from a wide range of public and private sector organisations, a higher percentage than ever before. The winning projects, situated in 17 Member States, represent a total investment of €278 million of which the EU will provide €120 million.

Projects targeting innovation account for the largest share of EU funding (some €20.9 million for 17 projects). The most targeted area in terms of number of projects is waste and natural resources (20 projects supported by €19.3 million), followed by water and innovation (17 projects each). The remaining 63 projects cover various topics including air, chemicals, climate change, energy, environment and health, forests, noise, soil protection, strategic approaches, and the urban environment.

Background

LIFE is the EU's financial instrument supporting environmental and nature conservation projects throughout the EU and in certain non-EU countries. Since 1992, LIFE has co-financed a total of 3 314 projects,

contributing approximately €2.45 billion to the protection of the environment. LIFE+ is the new European financial instrument for the environment with a total budget of €2 143 billion for the period 2007-2013. During this period, the Commission will launch one call for LIFE+ project proposals per year.

LIFE+ Environment Policy & Governance is one of three thematic components under the LIFE programme. The other two components, LIFE+ Nature & Biodiversity and LIFE+ Information & Communication, focus respectively on improving the conservation status of endangered species and habitats; and on disseminating information and raising the profile of environmental issues or providing training and awareness-raising for the prevention of forest fires.

More information on each LIFE+ project is available at: <http://ec.europa.eu/environment/life/project/Projects/index.cfm?fuseaction=home.home&cfid=656029&cftoken=cab1cf8091752717-4430206A-E1CB-E45B-8C0A15178EBFFE27>

It is also possible to contact the relevant national authorities:

<http://ec.europa.eu/environment/life/contact/nationalcontact/index.htm>

Index of Environment Policy & Governance projects selected in 2009

Location	Project number	Title of project
AUSTRIA	LIFE09 ENV/AT/000226 CEMOBIL	CO2-neutral E-mobility in European Cities to Reduce Air Pollutants (PM10, PM2.5, NO2) and Noise Demonstrated in Klagenfurt, Austria
BELGIUM	LIFE09 ENV/BE/000406 Renew4GPP	Enhancing Green Public Procurement using 100% annually renewable innovative resources in gardening products
	LIFE09 ENV/BE/000407 VOPAK-EXPERO3	Using ISCO with perozone for the remediation of a cocktail of organic contaminants at an EX-rated industrial site in operation
	LIFE09 ENV/BE/000409 ATMOSYS	Policy support system for atmospheric pollution hot spots
	LIFE09 ENV/BE/000410 DEMOCOPHESII	Demonstration of a study to coordinate and perform human biomonitoring on a European scale
CYPRUS	LIFE09 ENV/CY/000252 PM3	Particulates monitoring, modelling and management
DENMARK	LIFE09 ENV/DK/000366 Climate Partnerships	Carbon 20 - public private partnerships for climate solutions
	LIFE09 ENV/DK/000367 Composites Waste	Demonstration of a new composites waste recycling process and of the use of the recycled materials in various industries
	LIFE09 ENV/DK/000368 NorthPestClean	Demonstration of alkaline hydrolysis as a new technology for remediation of pesticide contaminated soil and groundwater
ESTONIA	LIFE09 ENV/EE/000227 OSAMAT	Management of environmentally sound recycling of oil-shale ashes into road construction products. Demonstration in Estonia
FINLAND	LIFE09 ENV/FI/000568 VOCless waste water	Abatement of VOC load from waste water treatment in mechanical pulping
	LIFE09 ENV/FI/000569 GISBLOOM	Participatory monitoring, forecasting, control and socio-economic impacts of eutrophication and algal blooms in river basins districts
	LIFE09 ENV/FI/000570 LCA IN LANDSCAPING	Application of LCA for sustainable green cover management using waste derived materials
	LIFE09 ENV/FI/000571 Climforisk	Climate change induced drought effects on forest growth and vulnerability
	LIFE09 ENV/FI/000572 MACEB	Mitigation of Arctic warming by controlling European black carbon emissions
	LIFE09 ENV/FI/000573 INSULATE	Improving energy efficiency of housing stock: impacts on indoor environmental quality and public health in Europe
	LIFE09 ENV/FI/000575 ABSOILS	Sustainable methods and processes to convert abandoned low-quality soils into construction materials
	LIFE09 ENV/FI/000579 REDUST	Best winter maintenance practices to reduce respirable street dust in urban areas - demonstration of best practices, strategy development and implementation
FRANCE	LIFE09 ENV/FR/000591 ECOTRANSFLUX	Transverse Flux Induction Strip Heating Demonstrator, a technology limiting CO ₂ emissions & acid wastes in Steel Industry

Location	Project number	Title of project
FRANCE	LIFE09 ENV/FR/000593 WaterRtoM	Water Research to Market - to speed-up the transfer of water related research outputs to better implement the Water directives
	LIFE09 ENV/FR/000594 IRIS	Demonstration of the industrial viability of a new chemistry to produce eco-friendly solvents from nylon chain wastes
	LIFE09 ENV/FR/000595 AETHER	Demonstration of the reduction of CO ₂ emissions from the production of an innovative class of cements
	LIFE09 ENV/FR/000598 CLIMATE	Changing Living Modes: Acting in our Territory for the Environment
	LIFE09 ENV/FR/000600 GREEN TESTING	Make your Non Destructive Testing greener by new eco-friendly practices and technologies
	LIFE09 ENV/FR/000601 C.C.H.P ENVIR CHALLENGES	Environmental challenges for a rural territory
	LIFE09 ENV/FR/000602 GREENCITY	Green public building platform for the promotion of a Green City
	LIFE09 ENV/FR/000603 Green Waste Plast	Recycling plastics packaging waste excluding bottle
GERMANY	LIFE09 ENV/DE/000011 MY FAVOURITE RIVER	Sustainable use of and identification with the River Neckar in co-operative governance (national, municipal and regional level)
GREECE	LIFE09 ENV/GR/000289 ACCEPT-AIR	Development of A Cost Efficient Policy Tool for reduction of Particulate Matter in AIR
	LIFE09 ENV/GR/000291 PROTEAS	REACH Protocol for Emissions and Accident Scenarios in Supply and Distribution of Fuels and Petrochemical products
	LIFE09 ENV/GR/000294 WASTE-C-CONTROL	Waste management options for greenhouse gas emissions control
	LIFE09 ENV/GR/000296 Adapt2Change	Adapt agricultural production to climate change and limited water supply
	LIFE09 ENV/GR/000297 CARBONTOUR	Strategic Planning Towards Carbon Neutrality in Tourism Accommodation Sector
	LIFE09 ENV/GR/000299 SOL-BRINE	Development of an advanced innovative energy autonomous system for the treatment of brine from sea-water desalination plants
	LIFE09 ENV/GR/000300 eSYMBIOSIS	Development of knowledge-based web services to promote and advance Industrial Symbiosis in Europe
	LIFE09 ENV/GR/000302 SAGE10	Establishment of Impact Assessment Procedure as a tool for the sustainability of agroecosystem: the case of mediterranean olives
	LIFE09 ENV/GR/000304 ROADTIRE	Integration of end-of-life tires in the life cycle of road construction
	LIFE09 ENV/GR/000307 ENERGY-WASTE	Energy exploitation of non-recyclable urban waste in a sustainable waste-to-energy market
ITALY	LIFE09 ENV/IT/000056 WIZ	WaterIze spatial planning: encompass future drinking water management conditions to adapt to climate change
	LIFE09 ENV/IT/000061 P.R.I.M.E.	Posidonia Residues Integrated Management for Eco-sustainability
	LIFE09 ENV/IT/000063 I.MO.S.M.I.D.	Integrated MOdel for Sustainable Management of Mobility in Industrial Districts

Location	Project number	Title of project
ITALY	LIFE09 ENV/IT/000067 SUMFLOWER	Sustainable Management of FLORiculture in WEstern Riviera
	LIFE09 ENV/IT/000068 WASTE-LESS in CHIANTI	Waste Prevention and Reduction in the Chianti Territory
	LIFE09 ENV/IT/000070 N.O.WA.S.T.E.	New Organic Waste Sustainable Treatment Engine: Implementation and Promotion of a System for the household organic waste treatment and domestic composting
	LIFE09 ENV/IT/000074 GAIA	Green Areas Inner-city Agreement "GAIA"
	LIFE09 ENV/IT/000075 AQUA	AQUA. Adoption of Quality water Use in Agro-industry sector
	LIFE09 ENV/IT/000078 ManFor C.BD.	Managing forests for multiple purposes: carbon, biodiversity and socio-economic wellbeing
	LIFE09 ENV/IT/000082 EXPAH	Population Exposure to PAH
	LIFE09 ENV/IT/000087 P.Pro.SPO.T.	Policy and Protection of Sporadic tree species in Tuscany forest
	LIFE09 ENV/IT/000092 OPERA	An integrated assessment methodology to plan local cost-effective air quality policies harmonised with national and European actions
	LIFE09 ENV/IT/000101 Bio.Lea.R.	Full scale use of liquid injection, for innovative control of waste moisture to enhance biogas production in pre-treated waste landfill
	LIFE09 ENV/IT/000102 NADIA	Noise Abatement Demonstrative and Innovative Actions and information to the public
	LIFE09 ENV/IT/000105 ETA-BETA	Environmental Technologies Adopted by small Businesses operating in Entrepreneurial Territorial Areas
	LIFE09 ENV/IT/000107 EFRUD	Emissions Free Refrigerated Urban Distribution
	LIFE09 ENV/IT/000108 EnerGeo	Insulating high strength-controlled porosity geopolymers floor tiles for the mitigation of global warming
	LIFE09 ENV/IT/000111 ELBA	ELBA - Integrated Eco-friendly Mobility Services for People and Goods in Small Islands
	LIFE09 ENV/IT/000115 SUN EAGLE	Endorsement actions for Governance of local environment
	LIFE09 ENV/IT/000117 GREEN INNOVATION	Industrial pilot project for lean integrated process cycle for eco-sustainable production of high performing magnesium components
	LIFE09 ENV/IT/000124 ET IDEA	Environmental TRY for Innovative Dynamic Environmental and energetic Analyses
	LIFE09 ENV/IT/000125 E.N.A.	Eco-Design for the Nautical Sector
	LIFE09 ENV/IT/000136 PALM	Pump And Leakage Management
LIFE09 ENV/IT/000146 T.A.SM.A.C.	Tourism Accessibility in Small Attractive Cities	
LIFE09 ENV/IT/000158 SEDI.PORT.SIL	Recovery of dredged SEDiments of the PORT of Ravenna and SILicon extraction	
LIFE09 ENV/IT/000174 Ultra Crash Treatment	New decisive and clean technology for the long storage of the metallic wires	

Location	Project number	Title of project
ITALY	LIFE09 ENV/IT/000185 MDPATC	New eco-process of superficial treatment of the metal wire products
	LIFE09 ENV/IT/000186 Sludge's Wealth	Ennobling of sludge for energy use and industrial
	LIFE09 ENV/IT/000188 ECO-CLUSTER	Environmental COoperation model for Cluster
	LIFE09 ENV/IT/000200 LAIKA	Local Authorities Improving Kyoto Actions
	LIFE09 ENV/IT/000208 AQUA	Achieving good water QUality status in intensive Ani-mal production areas
	LIFE09 ENV/IT/000214 GAS-OFF	Integrated Strategies for GHG Mitigation in dairy farms
	LIFE09 ENV/IT/000216 H2POWER	H2POWER_Hydrogen in fuel gas
LUXEMBOURG	LIFE09 ENV/LU/000390 ECO2 Tyre Tech	Development and validation of ecologically sustainable tyres through life cycle enhancing technologies
THE NETHERLANDS	LIFE09 ENV/NL/000423 QSIDE	The positive effects of quiet facades and quiet urban areas on traffic noise annoyance and sleep distur-bance
	LIFE09 ENV/NL/000424 ADIOS	Asbestos denaturing with innovative oven systems
	LIFE09 ENV/NL/000426 BLUETEC	Demonstration of the technological, economic and en-vironmental sustainability of a full-scale tidal energy device in an offshore environment
	LIFE09 ENV/NL/000427 SEWEEEX	Sewage energy exchange
PORTUGAL	LIFE09 ENV/PT/000050 Building-SPP	Capacity Building in Sustainable Public Procurement
ROMANIA	LIFE09 ENV/RO/000612 CLEANWATER	Integrated system for protecting and analysing the statu-s and trends of water threatened by nitrogen pollu-tion
SPAIN	LIFE09 ENV/ES/000431 CREAMAgua	Creation and restoration of aquatic ecosystems for im-provement of water quality and biodiversity in agricul-tural basins
	LIFE09 ENV/ES/000433 CITROFUEL	Demonstration project on a new process for second-generation bio fuel production: bio ethanol from citrus flesh
	LIFE09 ENV/ES/000435 LASERFIRING	Climate Change Adaptation of the Structural Ceramics Industry by Decreasing the Firing Temperature Using Laser Technology
	LIFE09 ENV/ES/000437 Soria CO2Cero	Urban Environmental Corridor CO2Zero, territorial axis for a sustainable culture in the city of Soria
	LIFE09 ENV/ES/000439 MIPOLARE	Post-mined polluted landscapes reclamation by means of valorization of different residues
	LIFE09 ENV/ES/000441 ACCIÓN AGROCLIMÁTICA	Combating climate change through farming: applica-tion of a common evaluation system in the 4 largest agricultural economies of the EU
	LIFE09 ENV/ES/000447 The Green Deserts	The Green Deserts: new planting techniques for tree cultivation in desertified environments to face Climate Change

Location	Project number	Title of project
SPAIN	LIFE09 ENV/ES/000450 BIOENERGY & FIRE PREV.	Contribution of forest biomass generated in the prevention of forest fires in the EU energy strategy
	LIFE09 ENV/ES/000451 VALUVOIL	Demonstration of zero waste cycle by the complete valorization of residues from refining of used vegetal oils
	LIFE09 ENV/ES/000453 MANEV	Evaluation of manure management and treatment technology for environmental protection and sustainable livestock farming in Europe
	LIFE09 ENV/ES/000454 WOODRUB	Utilisation of recovered wood and rubber for alternative composite products
	LIFE09 ENV/ES/000456 AG_UAS	Sustainable water management at regional scale through Airborne Remote Sensing based on Unmanned Aerial Systems (UAS)
	LIFE09 ENV/ES/000457 GREENING BOOKS	Improving the environmental performance of publications from design to lecture!
	LIFE09 ENV/ES/000459 ECOREGA	Green (environmentally friendly) management of cattle farm waste and its repercussion on the GHG emissions
	LIFE09 ENV/ES/000460 ELVISUSTECH	End life vehicles: innovative and sustainable technology for achieving European Directive targets
	LIFE09 ENV/ES/000461 NOISEFREETEX	Demonstrative solutions to reduce noise pollution in industrial areas, using finishing technologies in textile materials
	LIFE09 ENV/ES/000466 EDEA-RENOV	Development of Energy Efficiency in Architecture: Energy Renovation, Innovation and ICTs
	LIFE09 ENV/ES/000467 UFTEC	Substitution of conventional treatment of raw river water by ultrafiltration membrane technology
	LIFE09 ENV/ES/000469 ATLANTIC VINEYARDS	Development & demonstration of a complete system to reduce the use of chemical products in the D.O. RIAS BAIXAS
	LIFE09 ENV/ES/000472 LOS TOLLOS	Project for the comprehensive restoration of the endorheic basin of Los Tollos (El Cuervo and Jerez de la Frontera, Sevilla and Cadiz respectively)
	LIFE09 ENV/ES/000473 CLEANFEED	Prevention of vegetable waste generation and reuse for animal feed in the Autonomous Community of the Basque Country (ACBC)
	LIFE09 ENV/ES/000484 DEMONSTRATION OF KDV TECH	First Implementation Of A New Waste Recovery Technology Converting The Msw From A Representative Urban Region Into Synthetic Diesel Fuel
	LIFE09 ENV/ES/000493 DOMOTIC	Demonstration Of Models for Optimisation of Technologies for Intelligent Construction
	LIFE09 ENV/ES/000499 SustainGraph	Development of Life-Cycle e-Tools for improving the environmental performance of European Graphic SMEs
LIFE09 ENV/ES/000501 RECYCLED-PVB	Design and development of a demonstrative pilot plant for the recycling of polyvinyl butyral (PVB)	
LIFE09 ENV/ES/000505 Radio-electric Governance	Radio-electric Governance: environment and electronic communication policies for deployment of radiocom infrastructures	
LIFE09 ENV/ES/000507 CONNECT	Creation Of A New Network for Electric Cars Technology	

Location	Project number	Title of project
SWEDEN	LIFE09 ENV/SE/000346 GREECIT	Green citizens of Europe - Innovative tools and methods for interactive and co-creative citizens
	LIFE09 ENV/SE/000347 CLIRE	Climate friendly health and care
	LIFE09 ENV/SE/000348 BIOGASSYS	Biogas Skåne – an energy system creating sustainable development by combating climate change
	LIFE09 ENV/SE/000350 CLICC	Climate Living in Cities Concept
	LIFE09 ENV/SE/000351 Mare Purum	Mare Purum - Prevention of Marine Fouling on Commercial Shipping and Leisure Boats with a Non Toxic Method
	LIFE09 ENV/SE/000352 Pure Energy Separator	Pure Energy Separator – Innovative Centrifugal Separator Technology for Energy Recovery and Oily Waste Volume Reduction
	LIFE09 ENV/SE/000355 DYEMOND SOLAR	DYEMOND SOLAR – Innovative Technology for Low Cost Production of Energy Efficient Dye-Sensitized Solar Cells
UNITED KINGDOM	LIFE09 ENV/UK/000021 SSCM4ECAP	Implementing ECAP through a Sustainable Supply Chain Management (SSCM) led approach to Green Public Procurement
	LIFE09 ENV/UK/000023 EDOC	Electronic Duty of Care
	LIFE09 ENV/UK/000024 iGREEN	Improving Guidance on Regulations for Enterprise and the Environment
	LIFE09 ENV/UK/000026 Hydro4LIFE	Hydropower Sustainability Assessment Protocol: EU Assessments, Monitoring, Capacity Development and Outreach

Adapt agricultural production to climate change and limited water supply

Project background

Water shortages and water pollution constitute major environmental threats in the EU that pose a threat to agriculture in particular. Several northern EU Member States face water and soil pollution. Southern Member States are more susceptible to drought and soil degradation. Climate change is only expected to intensify these natural threats.

The agricultural sector will be greatly affected by the imminent decrease in water quantity and quality, but is also one of the major contributors to the problem. Modern-day agriculture accounts for around 70% of global water use. In Greece and Cyprus, up to 85% of total water use is dedicated to agriculture.

The extensive and intensive agricultural use of chemical pesticides and fertilisers is arguably the most important cause of water and soil pollution. Furthermore, current unsustainable agricultural practices are considered to be one of the major driving forces of climate change. Greenhouse gases (GHG) are emitted directly through conventional energy consumption and livestock breeding, and indirectly through land-use effects (such as deforestation).

Project objectives

The overall objective of the project is to demonstrate adaptation of agricultural production to climate change and limited water supply. Specifically, it aims to minimise agricultural water use by introducing a water-recycling method in a closed, fully automated, hydroponic greenhouse system.

The beneficiary will define the scientific and functional parameters of the new system's components: a shallow geothermal power component; a water-recycling unit (concentrator); and a greenhouse. Four prototypes will be constructed in Greece and Cyprus and the system tested for its technical and financial viability. The innovative system will be monitored by remote control.

The aim is to fully recycle the water and also reduce GHG emissions by using the renewable energy source. It also aims to: comply with the requirements of the reformed Common Agricultural Policy (CAP); and minimise water pollution and other environmental effects of agriculture.

LIFE09 ENV/GR/000296
Adapt2Change



Beneficiary:

Type of beneficiary

University

Name of beneficiary

Technological Education Institute (TEI) of Larissa
- Greece

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Name of contact person

Alexandros PAPACHATZIS

Duration of project:

48 months (01/09/2010 - 31/08/2014)

Total budget in euro:

2,576,548.00

EC contribution in euro with %:

1,288,274.00 (50.00 %)

Generic theme:

Water supply – Water quality – Ground water protection

Practical guides will be produced to encourage use of the innovative system in a wide range of environmental conditions. The guides will cover: design and implementation of water recycling systems in greenhouses; the use of shallow geothermal energy in greenhouse agriculture; environmentally friendly agricultural practices and sustainable water use; greenhouse automation and remote control support (RCS); and compliance with the CAP.

Expected results

- Four replicable, prototype horticulture greenhouse systems in Greece and Cyprus;
- Fully recycling and re-using water in the greenhouse system;
- Reduced GHG emissions; and
- The publication of practical guides to designing and implementing the system.