

The Contribution of LIFE Projects to the Implementation of Water Policy in the EU

Introduction

This document outlines how the experience gained from LIFE projects can be used to provide practical help to experts and water managers, as well as to supplement the work of the Working Groups and Expert Advisory Fora instituted in the framework of the Implementation Strategy of the Water Framework Directive. The general aim is to contribute to the implementation of water policy and in particular the implementation of the Water Framework Directive.

The LIFE Instrument.

LIFE is the European Commission's financial instrument for the environment (**L'Instrument Financier pour l'Environnement**). Established in 1992, it co-finances environmental initiatives in three areas. [LIFE Nature](#) aims to conserve natural habitats and the wild fauna and flora of European Union interest. [LIFE-Environment](#) is targeted at promoting sustainable development in the EU and candidate countries through demonstration and development of new methods for the protection and the enhancement of the environment. [LIFE-Third Countries](#) encourages technical assistance activities for promoting sustainable development in third countries.

The total budget of LIFE Phase III, ending on 31 December 2004, is 640million €

One specific objective of LIFE is to promote the sustainable management of ground and surface water. Thus, out of all the 1855 LIFE projects, many directly concern water management while others incorporate *inter alia* action relating to the sustainable management of surface or groundwater.

Based on a sample of 75 LIFE-Environment projects addressing water management issues directly, 43% are concerned with management of river basins, 16% seek to protect groundwater, 16% are aimed at the treatment of wastewater, 16% focus on pollution prevention and reduction, and 9% deal with the planning and organisation of water management. Similarly, both LIFE-Nature and LIFE-Third Countries support projects which protect water resources and which develop means for their wise use.

The European Union's Sixth Environmental Action Programme gave a central role to integrated water management. Support to the implementation of the Water Framework Directive is pivotal to this objective. LIFE inputs to the Directive's implementation by funding projects which are not only concerned with the improvement of water management, but which also widely disseminate their results. This can initiate a multiplier effect and should facilitate the exchange of expertise between those players involved in research, implementation, and development.

Access to and benefits from LIFE projects and contribution to Water Policy Implementation

In order to provide the experience and results gained from LIFE projects to water experts, the LIFE website¹ provides a search facility² for its past and present projects. For each project, the database contains background information, objectives and contact details. However, the most relevant water-related projects will be categorised on the CIRCA³ electronic forum according to relevant water themes. There, you can find short project abstracts and contact details. This link might be the entering point for experts to get close information on the projects as well as contribute to interlink activities and knowledge.

A list of relevant LIFE projects, grouped by subject, can be found in the attached annex. It is not claimed that these are the most useful projects for a particular audience – they serve only to demonstrate the type of projects and outputs. The list will be updated on a yearly basis in order to include information available for all relevant water projects.

The LIFE Unit believes that putting water managers in contact with relevant grass roots projects in this way will help deliver useful information and tools for the implementation of the Water Framework Directive.

¹ <http://europa.eu.int/comm/environment/life/home.htm>

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<http://europa.eu.int/comm/environment/life/project/Projects/index.cfm?fuseaction=SEARCH.SEARCHPAGE&area=0>

³

http://forum.europa.eu.int/Public/irc/env/wfd/library?l=/framework_directive/implementation_candidate&vm=detailed&sb=Title

River Basin Management

LIFE03/ENV/RO/539 Development of an Integrated Basin Management System in order to correlate water quality and quantity analysis with socio-economical analysis, using Open-GIS technology. 1.12.03-1.12.06

Benefiting country/region: Romania

The project aims to develop an integrated information system for water management at the river basin scale - includes improving tools in order to monitor pollution, predicting ecosystem response and reducing uncertainties related to basin management decisions, development of a GIS, economic impact scenarios.

National Administration "Apele Romane"-National Institute of Hydrology and Water Management", Maria Cristina TRIFU, Tel.: 21 40 2309507.

LIFE03/NAT/A/11 River management of the central (inner) River Mur 1.8.03 – 31.7.07

Benefiting country/region: Austria/ Styria

This project aims at reducing the degree of modification of the river by reconnecting it with the floodplain. It also considers consequences for agriculture.

fa19b@stmk.gv.at

LIFE03/ENV/E/149 New public uses in management and planning of basin resources.

1.11.03-30.10.05

Benefiting country/region: Spain/ Andalusia

The aim of the project is to promote a new approach for river basin planning and management which provides a more participatory and open approach. The project includes the identification of potential impacts.

juza78@dipusevilla.es

LIFE03/ENV/GR/217 Ecosystem-based water resources management to minimize environmental impacts from agriculture using state of the art modelling tools in the Strymonas Basin. 1.9.03-31.8.07

Benefiting country/region: Greece/ Kentriki Makedonia

The aims of this project are to promote the sustainable management of the surface waters and groundwater by using modelling tools for assessing the impacts of the agricultural sector and by use of optimisation methods. These will address the loss of water due to an incomplete or damaged irrigation distribution network and saltwater intrusion in the river during irrigation seasons.

papadimos@ekby.gr

LIFE00/ENV/UK/894 The Ythan Project - sustainable land management in the Ythan catchment 1.8.01-28.2.05

Benefiting country/region: UK/Scotland

The project aims to enhance the river's ecological status and to provide a model of best practice for the involvement of local communities in these issues.

<http://www.ythan.org.uk/>

LIFE00/ENV/RO/986 The protection of RIVER LIFE by mitigation of flood damages. 1.6.01-1.2.04

Benefiting country/region: Romania

The project aims to propose and consult about comprehensive, realistic and integrated strategies which would reduce the frequency and magnitude of damages due to inundation.
adler@meteo.inmh.ro

LIFE00/ENV/IT/80 Integrated Multi-Objective System for optimal management of urban drainage. 1.9.01-29.2.04

Benefiting country/region: Italy/ Liguria

The project aims to achieve the integrated multi-objective management of the drainage system in the urban environment of Genoa through the use of real time multi-sensors (rain gauges, flowmeters, turbidity monitors, low cost meteorological radar), modelling activities (Rain field forecasts and Network modelling) and upgrading works (sluice gates, pumping stations, volume rehabilitation, new SCADA system).

<http://www.comune.genova.it/incomune/europa/progetti/imos.htm>

LIFE00/ENV/IT/65 Planning and implementation of integrated methods for restoration of the catchment in Val Sellustra. 1.9.01-31.8.03

Benefiting country/region: Italy/ Emilia-Romagna

The main aim of the project focuses on the planning and direction of public and private works addressing the management of sources of pollution that flow into the Sellustra river. Areas at risk of erosion will also be controlled. Restoration of the environment will be achieved by means of 'Constructed wetland', 'buffer strips' and 'bioengineering'.

<http://www.comune.dozza.bo.it/sellustra/mioweb2/homepage.htm>

LIFE00/ENV/IT/19 Integrated management systems of the Petrignano area : new models against the nitrates pollution. 15.9.01-15.9.04

Benefiting country/region: Italy/Umbria

The project aims to apply a participatory approach in resource management and agricultural production, deemed to be the principal cause of pollution. The principal objectives are the reduction of nitrates in the soil system, a partial agricultural crop re-conversion, the evaluation of monitoring results of nitrates in sub-soils, the application and diffusion of fertilisation plans and good agricultural practices, the distribution of Low Environmental Impact and the creation of a process manual describing the models adopted and their evaluation.

<http://www.arpa.umbria.it/canale.asp?id=255>

LIFE00/ENV/FIN/668 Integrated river basin management - a network for optimised water management, rehabilitation and protection of aquatic ecosystems in Karjaanjoki area. 1.4.01-31.3.05

Benefiting country/region: Finland/Uusimaa, Varsinais-Suomi, Häme

The project aims at restoring a good ecological status in the river basin and the aquatic ecosystem. Activities involve agriculture, forestry and land-use planning in the evaluation of impacts and remedies. Regarding forestry and logging new techniques reducing the leaching of suspended matter will be demonstrated. Bio-manipulation will be applied in some lakes. Monitoring of the watercourse will be re-organised to correspond with the requirements set out in the EU Water Framework Directive.

<http://www.kaupunki.lohja.fi/klife/>

LIFE00/ENV/EE/925 Viru and Peipsi Catchment Area Management Plan. 1.12.01-1.12.04.

Benefiting country/region: Estonia

The project aims to conduct a multi-sectoral inventory and assessment of water resources management will be conducted. Following this a detailed programme of measures (economic management tools, permitting systems, control and monitoring programmes, etc.) aimed at achieving good status for water resources will be developed and implemented. Activities will also include the development of Estonian administrative capacities to support the implementation of the WFD.

<http://www.envir.ee/viru.peipsi/eng/piirkond.php>

LIFE02/ENV/UK/144 Sustainable management of urban rivers & floodplains 1.8.02-31.7.05
Benefiting country/region: UK/West Midlands

The aims of this project include the development of a methodology for urban water management and demonstration, extensive citizen consultation, development of a Land-Use Planning Model using G.I.S and physical demonstration through small-scale structural modifications to improve water quality and quantity issues (issues of flooding and scarcity).

<http://www.smurf-project.info/english/index.html>

LIFE02/TCY/MA/29 Protection of biodiversity and water resources in the Moulouya River Basin (MRB) 1.3.02-28.2.05

Benefiting country/region: Morocco

The overall aim is to combat pollution from domestic and mining sources and improve environmental management and enforcement of regulations.

http://www.enda.org.ma/biodiv_moulouya.php

LIFE02/ENV/IT/49 Water management at river basin scale 1.12.02-20.11.05

Benefiting country/region: Italy/Marche, Sicily, Sardinia

The project aims to demonstrate the benefits derived from an integrated approach to water management, based on the involvement of relevant stakeholders (asset owner, operator, regulator and watchdog). The project will supply monitoring and modelling tools to analyse the interactions between waters at the catchment scale.

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LIFE02/ENV/F/291 Prevention of surface water pollution by mining activities. 1.10.02-31.12.05

Benefiting country/region: France/Languedoc-Rousillon

The project aims to design and construct water collection devices, a water treatment system, a phytostabilisation system, a continuous water-monitoring system. It also aims at evaluating the adaptation possibilities to a Hungarian site and at diffusing the approach at the European level.

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LIFE03/ENV/UK/605 Bioabsorption of metals from abandoned mine sites. 3.11.03-1.12.06.

Benefiting country/region: Italy/Liguria, Campania; UK/Wales

This project aims to prevent 'waste' of a hazardous nature from reaching river basins, specifically including hazardous and toxic metals (Hg, Cd, Ni, Pb and Zn) from waters draining from abandoned metal mine sites.

wwp@aber.ac.uk

LIFE03/ENV/SLO/557 The sustainable rehabilitation of the landfill site. 1.11.03-31.10.06

Benefiting country/region: Slovenia

The aim is to establish dense woodland to avoid ground and surface water contamination. Specific objectives include efficient water protection from N and P, heavy metals, toxic substances and bacteria.

zupan@ormoz.si

Groundwater

LIFE03/ENV/B/18 Rehabilitation of a combined hexavalent chromium and VOC groundwater contamination : pilot tests with injection of molasses on large scale. 1.8.03 – 1.8.06

Benefiting country/region: Belgium/Flemish Region; Germany/all Länder; Italy/all regions

This project aims to demonstrate the economic, social and environmental benefit of applications of the remediation technique "injection molasses" on a large scale and for removal of contaminants.

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Wetland Habitats

LIFE03/NAT/A/9 Restoration of habitat in the area Wachau, Austria. 1.7.03-30.6.08

Benefiting country/region: Austria/Lower Austria

The project aims at reducing the degree of modification made to the stretch of river and includes forest and sediment management.

wachau@noe-mitte.at

LIFE03/NAT/D/3 Restoration of the biosphere in the oligotropic low mountain stream region. 1.10.03-31.10.08

Benefiting country/region: Germany/North Rhine-Westphalia

The project aims at reducing the degree of channel modification and puts emphasis on collaboration with important stakeholders like farmers, foresters, fishing interests, tourism and municipalities.

BioStationEuskirchen@t-online.de

LIFE03 NAT/D/7 River Main valley between Hassfurt and Eltmann 1.8.03-31.7.07

Benefiting country/region: Germany/Bavaria

This project aims at reducing the degree of modification of a stretch of river and includes issues of canalisation and land-use change for agricultural land.

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LIFE03 NAT/D/6 River dynamics of the Ems River being close to nature location: Lower Saxony 1.1.04-30.6.08

Benefiting country/region: Germany/North Rhine-Westphalia

The project aims at reducing the degree of modification of a stretch of river by removing bank reinforcement and restoring natural flow. Arable land will be changed into extensively-used grassland. Indigenous floodplain forests will be planted on land which is currently intensively used for agriculture.

fred.mueller@emsland.de

LIFE03 NAT/D/2 Measures of optimisation of petrifying springs with tufa formation (Cratoneurion) and their surroundings in the Franconian Alb 1.7.03-31.12.07

Benefiting country/region: Germany/Bavaria

The project aims at reducing the degree of modification to the springs and addresses discharges of liquid manure and pesticides and inflow of warmer drainage water from farmland.

a-v-lindeiner@lbv.de

LIFE03/NAT/E/51 Preservation of *Margaritifera margaritifera* at LIC in Zamora. 1.10.03-1.10.07

Benefiting country/region: Spain/ Castilla-León

This project aims to identify sensitive areas. Moreover, management measures will be undertaken to directly improve the mussel's habitat, such as regenerating river banks, using traditional small dams, improving river beds and restoring places of refuge. Measures also include improving fish habitats to boost populations of the host species.

arrsanjo@jcy1.es

LIFE03/NAT/E/52 Conservation and management of the SPA for Birds site of Community interest wetland "La Albuera" in Extremadura. 1.1.04-1.1.08

Benefiting country/region: Spain/Extremadura

The project aims to recover the natural habitats of La Albuera wetland by stopping artificial silting of the lagoons through human activity, combating overgrazing, and maintaining agricultural activity. The project includes a socio-economic survey.

dgm@aym.juntaex.es

LIFE03/NAT/E/55 Conservation and restoration of wetlands in Andalusia. 15.9.03-15.12.06

Benefiting country/region: Spain/Andalusia

The aim is to restore the ecological and hydrological integrity of the three targeted wetlands, addressing the silting up of basins due to agriculture, water pollution, disturbance of water level management regimes and reduction of flooded areas.

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LIFE00/NAT/NL/7050 Biotope improvement for *Crex crex* in the brook valley of SPA Drents-Friese Wold 1.11.00-31.12.05

Benefiting country/region: The Netherlands/Drenthe

The project aims to restore river and grassland habitats.

<http://www.natrionaalpark.nl/drents-friese-wold>

LIFE00/ENV/F/600 Concerted eco-development operating around the ponds and lagoons of La Narbonnaise area. 15.7.01-15.7.04

Benefiting country/region: France/Languedoc-Rousillon

This project's aims are twofold – 1.) development of an integrated 'uses/environment' administration including the creation of a 'water observatory' and 2.) the organisation of demonstration material/projects promoting prevention (environmental education, business management, clean technologies...) and cure (decontamination of effluents, waste management, improvement of production processes...).

<http://www.parc-naturel.com/ProglifeEden/proglifeeden.html>

LIFE00/NAT/E/7330 SCI Parga-Ladra-Támoga: recovery of bog woodland and dystrophic lake. 1.4.01-31.3.05

Benefiting country/region: Spain/Galicia

The project aims to develop habitat improvement measures including restoration of streams and canals, recovery of natural vegetation, elimination of exotic species, installation of ecological filters.

<http://life.terrasdomino.org/>

LIFE00/NAT/B/7148 Actions for Birds of Reedbeds in Bassin de la Haine 1.7.01-30.6.05

Benefiting country/region: Belgium/Walloon Region

The aim is to make a detailed study of the hydrological problems of the area in order to update the plans for future management and monitoring of key species. Private land will be purchased and used in combination with land swaps to form new protected zones.

http://www.rnob.be/protection/roselieres_haine.shtml

LIFE00/NAT/A/7053 Wild river landscape of the Tyrolean Lech 1.4.01-31.3.06

Benefiting country/region: Austria/Tyrol

The aim of the project is to restore habitats of free-flowing water wherever the demands of flood and the socio-economic conditions allow it. This will include river widening and allowing gravel to enter the system. The project will be accompanied by special measures to protect threatened species as well as forestry compensation payments.

<http://www.tiroler-lech.at/life/index.htm>

LIFE02/NAT/UK/8544 Sustainable wetland restoration in the New Forest 1.7.02-31.12.06

Benefiting country/region: UK/Hampshire

The aims of this project are to restore the priority interest features of the New Forest cSAC and their supporting adjacent habitats in accordance with the cSAC Management Plan and to establish their long term sustainability through the development of a mechanism which ensures the integrated management of the main water basins. The project also aims to create suitable conditions for the regeneration of a significant further area of priority habitat.

<http://www.newforestlife.org.uk/life3/life3index.htm>

LIFE02/NAT/FIN/8465 Restoration and protection of the River Simojoki 1.5.02-30.4.07

Benefiting country/region: Finland/Lapland

The aim of the project is to improve conservation state - it includes the requirement of Natura 2000 and the Water Framework Directive. There has been a fear the project actions may be detrimental to freshwater pearl mussel populations.

<http://www.vyh.fi/eng/environ/project/lifelap/simojoki/welcome.htm>

LIFE02/NAT/D/8458 Major freshwater mussels *Unionoidea* in the trinational region of Bavaria-Saxony-Czech Republic 1.8.02-31.7.07

Benefiting country/region: Germany/Bavaria, Saxony; Czech Republic

This project aims to conserve freshwater pearl mussels *Margaritifera margaritifera* and common river mussels *Unio crassus* by reducing silt and nutrient inputs and by infecting host fish.

http://www.life.bezirk-oberfranken.de/beschreib_e.html

LIFE02/D/NAT/8457 Regeneration of the limnic Elbe estuary, inter alia for *Oenanthe conioidea* 1.5.02-31.12.06

Benefiting country/region: Germany/Hamburg

The aim is to create species-rich freshwater estuary wetland in Hamburg.

<http://www.umwelt.schleswig-holstein.de/?30786>

LIFE02/NAT/A/8518 Revitalisation Donau-Riverbank 1.7.02-30.6.06

Benefiting country/region: Austria/Lower Austria

The 2002-project aims to recreate wetland ecosystem by removing 2 kilometres of artificial banks to leave the stream free to develop its course through the old arms and in the surrounding area. <http://www.donauauen.at/html/english/index.html>

Wastewater Treatment

LIFE03/ENV/A/6 Centralised monitoring of decentralised wastewater treatment plants (WTPs) 26.3.03-25.3.06

Benefiting country/region: Austria/Lower Austria

This project aims to increase the efficiency and effectiveness of smaller WTPs by centralising monitoring.

<http://www.alpin.at/Cemodewa/index.htm>

LIFE03 ENV/D/30 Construction, start-up and 16-months performance check of a demonstration plant (Lagoon-Memb Prototype) for the cost-efficient treatment of municipal wastewater in rural districts up to service water quality. 1.5.03 – 31.8.07

Benefiting country/region: Germany/Saarland

This project aims to address problems of faecal and intestinal viruses in domestic waste water – the method should achieve industrial water quality in compliance with the EU Directive 91/271 for urban wastewater treatment.

wolfgang.wagner@entsorgungsverband.de

LIFE03 ENV/D/25 Sanitation concepts for separate treatment of urine, faeces and greywater. 1.1.03-30.6.06

Benefiting country/region: Germany/Berlin, Brandenburg

This project's aim is to develop new sustainable sanitation concepts which have significant advantages in ecological and economic terms compared to the conventional (end-of-pipe) systems and to demonstrate that it is technically feasible to collect and treat separately three components of the domestic effluents: urine, faeces and grey water. The project also addresses the issue of consumer acceptance.

http://www.kompetenz-wasser.de/dt/projekte/proj_scst.htm

LIFE03/ENV/B/17 Electro-destruction of toxic nitrate and ammonia ions. Demonstration of a sustainable wastewater treatment technology in power plants that removes nitrates up to zero percent and prevents sewage sludge generation. 1.9.03 – 1.9.05

Benefiting country/region: Belgium/Flemish region

This project aims to demonstrate cost-effective zero-emission nitrate and ammonia electro-destruction at an industrial scale. This is particularly applicable to "Sensitive Areas" under the Urban Wastewater Directive.

Leon.Duvivier@Laborelec.com

LIFE03/ENV/DK/53 Innovative demonstration project for local treatment of combined sewer overflows (CSOs) enabling the implementation of the Water Framework Directive. 1.6.03-30.6.06

Benefiting country/region: Denmark/Copenhagen, Frederiksberg, Kommuner, County of Funen, County of Aarhus

This project aims to demonstrate full-scale treatment of CSOs using a lamella separator.

www.cowiprojects.dk/lotwater

LIFE03/ENV/E/160 Integral waste management model for urban transport infrastructure. 1.12.03-31.5.06

Benefiting country/region: Spain/Commune of Valencia

This project aims to demonstrate recycling technologies for the majority of liquid residuals generated in the maintenance and operation of a fleet of vehicles.

emt@emtvalencia.es

LIFE03/ENV/E/164 Demonstration of water saving for watering uses through the experimentation of artificial intelligence integrated in traditional systems of water control. 1.10.03-30.9.06

Benefiting country/region: Spain/Rioja, Aragon, Andalusia

The aim of this project is to develop four intelligent watering system prototypes for agriculture, public gardens and domestic gardens to demonstrate savings of water up to 35-50%.

Tel : 976 34 466599 Pedro Justo MIRANDA LUIS.

LIFE03/ENV/FIN/237 Reuse of industrial waste and waste to prevent eutrophication by a new environmentally sustainable and cost effective approach. 1.12.02-30.9.06

Benefiting country/region: Finland/Varsinais-Suomi

The project aims to find a cost-effective and environmentally sustainable method for the handling of wastewater in middle-sized or larger treatment plants by combining industrial and municipal wastewater to achieve the requirements set by Directive 91/271 for urban wastewater. It should decrease the phosphorus discharge by 50% to below 0.3mg/l. The method will use an advanced bio-film process and industrial carbon waste instead of synthetic carbon sources to minimise biological nitrogen removal.

raisio.kaupunki@raisio.fi

LIFE00/ENV/IT/64 Ecological upgrading and tourist promotion of lake Fimon basin Eco-Fimon 1.7.01-30.8.04

Benefiting country/region: Italy/Veneto

The project's main objective is to demonstrate that the use of integrated phyto-depuration techniques (purification using plants) can replace traditional water treatment systems (e.g. septic tanks) for the reclamation of prized water settings.

<http://ftp.keycomm.it/~comuarcu/utc/ecofimon/ECOFIMON%20CORPO.htm>

LIFE00/ENV/F/614 Real-time management and operation of an urban sewage system in relation to the quality of the natural environment. 26.11.01-26.1.05

Benefiting country/region: France/Lorraine

The project aims to define a rain and waste water flow management strategy, integrating information about the quality of the receiving environment. It should be possible to direct water flows either to the purification plant or to the natural environment or to effluent storage basins, depending on water quality and the parameters of the environment.

info@sivom-messine.fr

LIFE00/ENV/F/599 Geo-sanitation - evapotranspiration of sewerage waters. 6.3.01-15.4.03

Benefiting country/region: France/Languedoc-Roussillon

The project aims to test various combinations of sewage effluents, soil types, ground water, climate, and evapo-transpiration. The project aims to improve surface water quality in physico-chemical (eutrophication) and bacteriological (bathing) terms, as well as to conserve water resources by using wastewater to irrigate the green belt.

<http://www.reevanver.org/>

LIFE00/ENV/EE/924 Sustainable wastewater purification in Estonian small municipalities. 1.1.02-31.12.05.

Benefiting country/region: Estonia

The project aims to use vegetation filters to purify the wastewater (reduce N and P) instead of conventional chemical procedures.

<http://www.zbi.ee/life/>

Endocrine Disrupters

LIFE03/ENV/DK/56 Removal of endocrine disrupters in the outlet water from wastewater treatment plants in combination with inactivation of pathogenic microorganism. 1.12.02-28.2.06

Benefiting country/region: County of Frederiksborg

The project's aim is to create an internationally recognized design basis for the removal of endocrine disrupters which is economically sustainable.

mail@mthojgaard.dk

Coastal and Transitional Waters

LIFE03/NAT/E/54 Conservation of coastal habitats of the Province of Cádiz. 15.9.03-15.3.06

Benefiting country/region: Spain/Andalusia

The project aims to create and implement a management plan for coastal habitats in the Cadiz Natura 2000 sites including restoration of the sea-water regulation system.

dgp@cma.junta-andalucia.es

LIFE00/ENV/IT/90 Sea-Land System: concerted actions for the coastal zone management 3.9.01-31.8.03

Benefiting country/region: Greece/Anatoliki Makedonia, Thraki; Ireland/South East; Italy/Puglia, Sardinia

The project aims for an integrated approach to the environmental protection and management problems presented by a coastal strip of nearly 445 km in length. The plan includes: the identification (in real time) of all the hydro-turbid-medical and chemical-physical parameters as well as flora and fauna of the studied coastal zone., monitoring of the coast level and of the beach inclination and the reduction of the effects of sea intrusion - be it due to accidental (release of hydrocarbons) or continuous (sewage waters) causes.

<http://www.selsy.org/>

LIFE00/ENV/FIN/666 Coastal management strategy for Southwest Finland 1.7.01-31.12.04

Benefiting country/region: Germany/Mecklenburg-Western Pomerania; Finland/Varsinais-Suomi

The project includes participatory planning with all relevant stakeholders in creating a framework for decision making. A very comprehensive data collection and sampling programme covering all relevant aspects will be carried out. This will be followed by a

thorough analysis concentrating on conflicting factors and on the identification of different management options. A pilot project will be established.

<http://www.varsinais-suomi.fi/coastra/english.html>

LIFE00/ENV/FIN/646 Integrated management system for the Bothnian Bay. 1.8.01-30.7.04
Benefiting country/region: Finland/ Etelä-Pohjanmaa, Vaasan rannikkoseutu, Pohjois-Pohjanmaa, Lapland

The main aims of this project are to get a holistic picture of the state of Bothnian Bays' marine and coastal environment and of the factors affecting it as well as to improve and enhance the information exchange between the main actors (including authorities and industries e.g. large sewage treatment plants). A model for closer cooperation between the Finnish and Swedish environmental authorities is also a goal. The project will develop guidelines for integrated management and monitoring through the creation of a comprehensive data base consisting of the existing local, regional and national databases. Internet support as well as geographical information systems (GIS) will be developed as will practical tools for monitoring and management.

<http://www.vyh.fi/perameri/welcome.htm>

LIFE02/NAT/DK/8588 Improving status of coastal lagoon Tryggelev Nor, Denmark.
1.4.02-30.6.06

Benefiting country/region: County of Funen

The project aims to address eutrophication of a coastal lagoon by reducing the nitrogen load by 70 % and includes other conservation objectives relating to ecological status.

<http://www.fyns-amt.dk/wm107448>

Leachate Treatment

LIFE03/ENV/E/140 Closing the nitrogen cycle from urban landfill leachate by biological nitrogen removal over nitrite and thermal treatment. 1.8.03-31.7.06

Benefiting country/region: Spain/Basque Country, Catalonia

This project aims to focus on the treatment of leachates from urban landfills with particular attention given to the high nitrogen salts and organic matter contents. The method to be developed is to eliminate nitrogen as N₂ (nitrogen gas), removing the ammonia, nitrite and nitrate contents in final waste.

e.jimenez@cespa.es

Eutrophication

LIFE02/ENV/IT/79 Eutrophic reduction through natural techniques of three little Italian lakes waters. 1.11.02-30.10.05

Benefiting country/region: Italy/ Piemonte, Lombardia, Sardinia

The project aims to lower the amount of phosphates and nitrates that residential settlements, farming and food industry discharge into the lakes by using filter-ecosystems, biological reactivation of the farming soil and reactivation of Candia marsh.

<http://www.life.trelaghi.it/>

Water Distribution

LIFE03/ENV/IT/333 Environmental certification of water resource distributed by waterworks systems. 1.11.03-1.11.06

Benefiting country/region: Italy/Emilia-Romagna

The project aims at developing an ad hoc “quality and environmental management” label for water distributed in waterworks systems according to ISO14024 standards.

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Forestry

LIFE03/ENV/S/601 Demonstration of opportunities on forest land to support the implementation of the Water Framework Directive (WFD) 1.9.03-28.02.07

Benefiting country/region: France/Rhône-Alpes; Sweden/Upper Norrland; UK/Scotland

The aim of the project is to demonstrate how forestlands and forestry in Europe could contribute to the implementation of the WFD. Approaches in this project are expected to contribute to the following WFD implementation areas: comparative analysis of forestry practices in different countries, contribution to a handbook on river basin management planning, demonstration of public participation adapted to different spatial scales, examples of forestland management awarded for good ecological status, examples of monitoring efforts, examination of relations between actions on forestland and the quality of groundwater and surface water and demonstration of a forest area protection methodology.

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