



The LIFE Programme: good practice on municipal waste management

Carlos DE LA PAZ

LIFE Programme – Communications Team

4th Intl. Conf. on Sustainable Solid Waste Management
23rd-26th June 2016, Limassol - Cyprus

The LIFE Programme

L'Instrument Financier pour l'Environnement

The only EU funding tool dedicated exclusively to the Environment and Climate action

- Since 1992
- 4 306 projects approved (**112 on MSW**)
- €3.46 billion for 2014-2020
- Two sub-programmes:
 - LIFE Environment
 - LIFE Climate Action





LIFE10 ENV/IT/000373 - **LOWaste** LOcal Waste Market for second life products

Project beneficiary: Municipality of Ferrara

Main aim:

Reduce urban waste and preserve natural resources by developing a local market for recycled materials

Methodology:

To establish markets for products deriving from recovered local wastes → “re-products”

- Identification of the local waste fractions with highest value
- Analysis of local markets and actors
- Involvement of local designers, artisans, cooperatives and SMEs who design and implement the re-products
- Launch of 4 pilot projects for reuse and recycling



MARKETS FOR FOUR RE-PRODUCTS

- **TEXTILES** from hospitals

- **Shoes, bags, furniture coverings and toys**

- 90 tonnes per year of medical textile recycled

- Up to 67 tonnes of CO₂ eq. cut from non-disposal

- Up to 2 159 tonnes of CO₂ eq. from raw materials



Photo: bags from hospital textiles

- **CONSTRUCTION WASTE**

- **Base material for roads**

- 11 200 tonnes of potential recycled aggregates per year

- Up to 107 tonnes of CO₂ eq. from landfill prevention

- Up to 486 tonnes of CO₂ eq. avoided by not using aggregates produced in quarries



Photo: road foundations fill panels

• URBAN FURNISHINGS

- **Up to 90 tonnes per year of reconditioned furniture**
- Up to 67 tonnes of CO₂ eq. saved for the non-disposal
- 90 tonnes of raw material not used for the production of new products



Photo: Refurbished furnitures

• FOOD RESIDUES from collected oils and food scraps

- **4.5 tonnes of compost produced per year**
- 30 tonnes of food waste avoided per year
- Up to 1.4 tonnes per year of CO₂ eq. avoided through non-disposal of the waste



Photo: Compost

RESULTS

- Creation of a green district with 350 000 inhabitants in Ferrara
- Organisation of recycling trainings for local actors
- Waste reductions of up to 11 400 tonnes/year
- Resource savings of around 11 200 tonnes/year
- Reductions of up to 3 000 tonnes of CO₂/year
- A reduced water footprint of more than 230 000 cubic meters



LIFE08 ENV/GR/566 **DRYWASTE** - Development and demonstration of an innovative household dryer for the treatment of organic waste



Project beneficiary: National Technical University of Athens

Main aim: To design an innovative, flexible and compact home drying system for treating organic waste

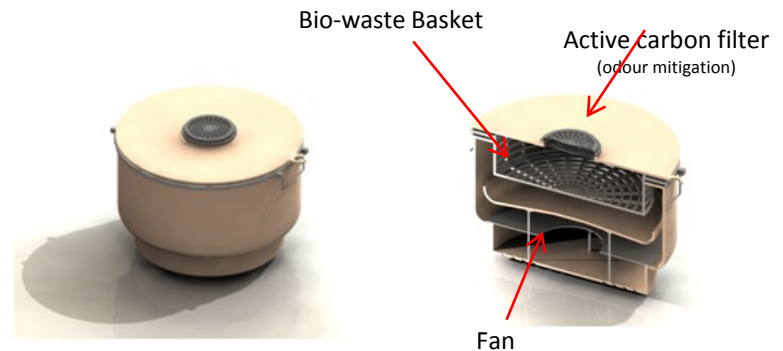
Methodology:

Capacity: 4kg/day

Able to dry:

- .Fruit & vegetables
- .Leaves & herb residues
- .Meat & fish (even bones)

Energy cost: €1.17 household/month



RESULTS: device able to reduce waste by 67% in weight

- Multiple benefits for the environment (soil, water resources, air, etc)
- Contributes to meet EU targets → by **2016** EU Member states must reduce disposal of biodegradable municipal waste to **35%** of total 1995 amount (Directive 1999/31/EC “Landfill of waste”).



- Multiple economic benefits for the municipalities:
Costs reduced:
 - .Collection and transportation
 - .Disposal → less disposal fees paid to the landfill operator
- Various potential uses for the final dry residue:
 - .Bioethanol and biogas production
 - .Composting

LIFE08 ENV/E/000135 **FENIX** – Life cycle information on packaging waste management



Project beneficiary: ESCI (private company)

Main aim: Create an user-friendly software tool for better managing packaging waste

Methodology and results:

- A specific and ILCD compatible database on waste treatment processes and recycling technologies
- LCA software including a wide range of parameters, e.g.:
 - . Amount of waste generated,
 - . Type of truck used for transport,
 - . Number and distance between containers,
 - . Distance between the municipality and the treatment plant,
 - . Percentages allocated to each treatment (selection, incineration, landfill...)





LIFE07 INF/F/185 - LIFE12 INF/BE/459 **EWWR+** – The European Week for Waste Reduction



Project beneficiary: Agence de l'Environnement et de la Maîtrise de l'Energie (National Authority), ACR+ (NGO)

Main aim:

Reduce the amount of municipal waste generated in Europe by raising awareness at local, regional, national and EU level.



Methodology:

Organisation of one week of information and awareness rising events for waste prevention all over Europe, and beyond.

Anybody can participate!



[EWWR website](#)



- European Week for Waste Reduction

In 2016: 18-27 November 2016

Thousands of actions on waste reduction, product reuse and materials recycling

- Prevention Thematic Days

In 2016: packaging waste!

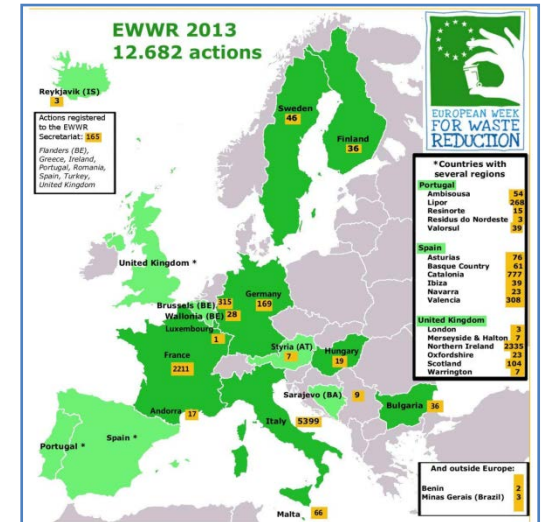
- European Clean-Up Day:

Collecting litter in nature

- EWWR awards:

To reward the most outstanding actions carried out in each EWWR edition.

Over 48 000 activities organised since 2009!



More information

New Regulation 2014-2020:

[Regulation \(EC\) No 1293/2013](#)

National Contact Points:

Information on eligibility and project preparation
<http://ec.europa.eu/life/contact/nationalcontact>

Funding:

General information

<http://ec.europa.eu/environment/life/funding/life.htm>

2016 call – indicative planning

<http://ec.europa.eu/environment/life/funding/life2016/index.htm>



Photos: LIFE Programme

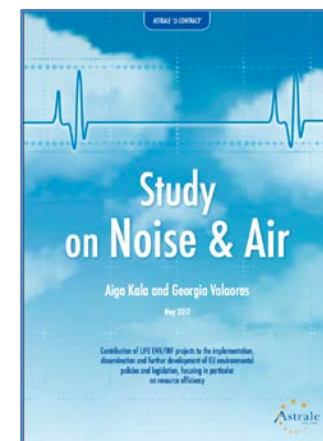
LIFE Communication tools & services

- [LIFE website](#)
- [Project database](#)
- [Thematic publications](#)
- [LIFE thematic brochures](#)

Search Results for LIFE Projects

120 Projects were found that meet your search criteria. Showing 1 - 10 of 120 results. Showing 1 - 10 of 120 results. Showing 1 - 10 of 120 results.

PROJECT TITLE	PROJECT Nº	PROJECT WEBSITE	YEARS OF FINANCING	LEAD PARTNER COUNTRY	TYPE OF BENEFICIARY
LIFE SW - Life SmartWastewater: Development and promotion of a treatment process allowing plants to recover ...	LIFE14 EN/GA/000611		2014	GR	University
LIFE - (CLEAN HEAT - CLEAN HEAT): Reducing particulate matter (PM10) by wood burning	LIFE14 DE/DE/000490		2014	DE	NGO/Foundation
Poland: LIFE - Implementation of an quality plan for the Katowice Region - Katowice in a healthy atmosphere	LIFE14 PL/PL/000221		2014	PL	Local authority
EMERGENCY LIFE - Implementing Technologies and Practices to Reduce air pollution of the subway environment	LIFE13 EN/ES/000263		2013	ES	Research Institution
LIFE + SPP1618 - Reduction of exposure of cyclists to urban pollution	LIFE13 EN/ES/000417		2013	ES	University
LIFE PHOTOCYTIC - Air pollution treatment in European urban environments by means of photocatalytic coatings	LIFE13 EN/ES/000603		2013	ES	Research Institution
LIFE SENSITIVE - New medical production technologies to increase road drying rate and power the traffic urban bus ...	LIFE13 EN/ES/000605		2013	ES	Large enterprise
LIFE PHOTOCLING - Sustainability of photocatalytic technologies in urban environments from laboratory tests to in-f...	LIFE13 EN/ES/001113		2013	ES	Research Institution
LIFE BioBus - "Electric Bus Rapid Transit" high capacity Bus with zero local emissions"	LIFE13 EN/FR/000281		2013	FR	International enterprise
LIFE + BEST/ALIVE - A novel manufacturing process for photocatalytic active ceramic tiles by digital printing ...	LIFE13 EN/IT/000140		2013	IT	SME (Small and medium sized enterprise)
Life+ Life Parking - 3R - Free electric parking system for	LIFE13 EN/IT/000140		2013	IT	SME (Small and medium sized enterprise)



Photos: LIFE Programme





Thank you for your attention!

carlos.delapaz@neemo.eu

**Disclaimer: Unless stated otherwise, all pictures and tables on this presentation belong to the European Union or the LIFE project featured on the slide.*

LIFE, the EU funding tool for the environment and climate action
ec.europa.eu/life