

# Luxembourg

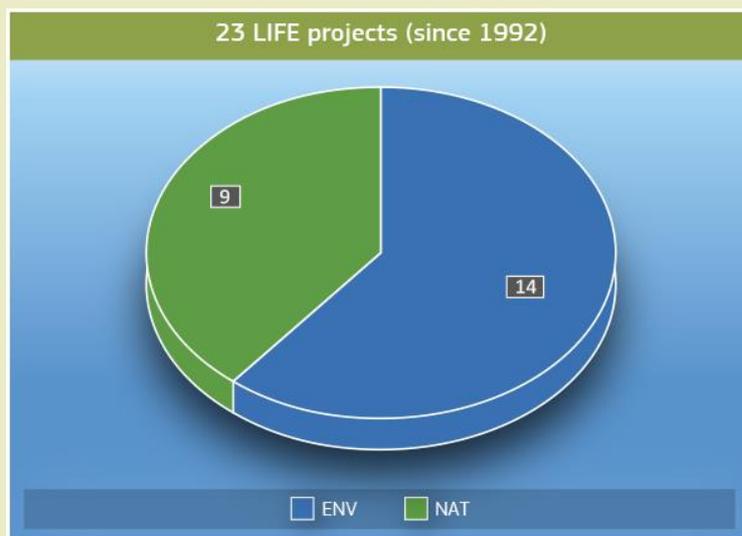


## Overview

This document provides an overview of LIFE in Luxembourg. It showcases key data and some of the latest LIFE projects.

You will also find contact details and other useful resources and a full list of current and recently-finished LIFE projects.

Every year calls for project proposals are launched covering the LIFE programme's priority areas.



Investment in LIFE projects in Luxembourg (€ million)		
	Total investment	EU contribution
<b>ALL LIFE projects</b>	<b>89</b>	<b>34.5</b>
Environment and Resource Efficiency (ENV)	65	23
Nature and Biodiversity (NAT)	24	11.5

### ABOUT LIFE

The LIFE programme is the EU's funding instrument for the environment and climate action. It has been running since 1992 and has co-financed more than 4 500 projects across the EU and in third countries, mobilising over €9 billion and contributing more than €4 billion to the protection of the environment and climate. The budget for the LIFE programme for 2014–2020 is set at €3.4 billion in current prices, with a sub-programme for environment and a sub-programme for climate action.

#### Types of LIFE project:

- Traditional (Environment and Resource Efficiency; Nature and Biodiversity; Environmental Governance and Information; Climate Change Mitigation; Climate Change Adaptation; Climate Governance and Information).
- Integrated (Environment, Nature or Climate Action)
- Preparatory
- Capacity-building

#### Other types of LIFE funding:

- NGO operating grants
- Natural Capital Financing Facility (NCF)
- Private Finance for Energy Efficiency (PF4EE)

NCF and PF4EE are joint initiatives with the European Investment Bank, which manages the two funds.

For more information visit: <http://ec.europa.eu/life>

## LIFE Environment and Resource Efficiency

This LIFE priority area is aimed at developing, testing and demonstrating best practices, solutions and integrated approaches to environmental challenges, as well as improving the related knowledge base.

The LIFE Environment and Resource Efficiency strand (formerly the LIFE Environment Policy and Governance component) has co-financed 14 projects in Luxembourg thus far, representing a total investment of €65 million, of which €23 million has been provided by the EU.

Completed projects focused mainly on: construction and demolition waste; eco-friendly products; reducing emissions of greenhouse gases and air pollutants; sustainable construction; industrial waste; energy efficiency/savings in the automotive and building sectors; river basin management; eco-products (production of wood panels with near-zero environmental footprint); and clean technologies in the car industry (direct injection of compressed natural gas). Most of the projects were implemented by international enterprises (Dometic, Kronospan, Goodyear, Dupont de Nemours and Delphi Automotive Systems Luxembourg). Other beneficiaries included an SME (OSL Oeko Service Luxembourg), a research centre (Centre de Recherche Public Henri Tudor) and a professional organisation (Chambre des Métiers du Grand-Duché de Luxembourg). The projects had average durations of 36 to 48 months.

No projects have been funded in Luxembourg under this strand since 2013.

Presented in the box below is an example of a successful LIFE Environment project in Luxembourg.



### **Demonstration and validation of Direct Injection of CNG in vehicle engines and its environmental benefits (LIFE DI-CNG) LIFE13 ENV/LU/000460**

The LIFE DI-CNG project succeeded in developing a pre-industrial prototype (GEN6) for the direct injection of compressed natural gas into car engines. The project demonstrated that engines equipped with Direct Injection of Compressed Natural Gas (DI-CNG) injectors can compete with GDI and diesel engines in terms of power and torque, while reducing CO<sub>2</sub> emissions by at least 25% (vs. gasoline) and particulate matter emissions by more than 90% (vs. diesel).

Moreover, a semi-automated manufacturing and assembly pilot line for low mass production of the GEN6 injectors has been developed. This demonstrated that the production of DI-CNG injectors has a lower environmental impact than the GDI injectors.

The environmental benefits of the projects are manifold:

- DI-CNG engines can reduce CO<sub>2</sub> emissions by at least 25% compared to gasoline engines (GDI), and by 15% compared to current gas engines (PFI);
- DI-CNG engines can reduce particulate matter emissions by more than 90% compared to diesel engines (90% below the Euro6d regulation);
- The production of one DI-CNG injector consumes 22% less energy, which results in 7% less CO<sub>2</sub> emissions, than the production of one GDI injector; and
- The carbon footprint of the DI-CNG technology is lower than for the GDI technology and results mainly from lower Well-to-Wheel emissions (31% or 44% less, if methane is from fossil or renewable sources, respectively).

For further information:

<https://www.delphi.com/direct-injection-compressed-natural-gas>

## LIFE Nature and Biodiversity

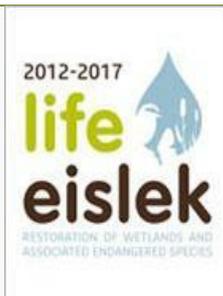
This LIFE priority area is aimed at developing, testing and demonstrating best practices, solutions and integrated approaches to contribute to the development and implementation of nature and biodiversity policy and legislation, as well as improving the related knowledge base.

To date, the LIFE Nature and Biodiversity component has co-financed nine projects in Luxembourg. These represent a total investment of €24 million, of which €11.5 million has been contributed by the EU.

Completed projects focused on the improvement of habitats (e.g. Alzette upper valley and the mosaic of wetlands in Eisleck, in order to improve the conservation status of three target species: the violet copper butterfly, and the bird species, the whinchat and red-backed shrike; and endangered grassland habitats in the "Gutland" region) and the conservation/restoration of specific species (the Ardenne pearl mussel populations, the thick shelled river mussel in the rivers Our and Sûre, and endangered amphibian species). One project focused on assisting local authorities in the implementation of Natura 2000 in Luxembourg. The projects were carried out by an NGO (Fondation "Hëllef fir d'Natur") and a public enterprise (Syndicat Intercommunal de l'Ouest pour la Conservation de la Nature). Their durations ranged from between 36 and 88 months.

There are three ongoing projects in Luxembourg.. Two target grassland habitats and one aims to enhance the ecology of agricultural landscape and improve the connectivity between existing and potential habitats in Luxembourg. The projects have each a duration of 72 and 78 months and are being coordinated by the Syndicat Intercommunal de l'Ouest pour la Conservation de la Nature, and by the Fondation "Hëllef fir d'Natur".

The project presented in the box below is an example of a successful LIFE Nature project in Luxembourg.



### **Restoration of wetlands and associated endangered species in the Eisleck Region (LIFE Eisleck)** **LIFE11 NAT/LU/000858**

The LIFE Eisleck project improved the management and conditions of around 170 ha of wetlands in eleven Natura 2000 sites through concrete conservation actions, to protect wetland habitats and three target species: violet copper butterfly, whinchat and red-backed shrike. The project established long-term management plans, in collaboration with farmers and other stakeholders; and contributed to the development of ten Natura 2000 management plans by providing advice on the habitats and species targeted in the project.

In particular, the project team purchased 32.6 ha of land for nature conservation purposes and restored it through conservation actions; managed 43 ha of fallow land; and restored 15 ha of wetland by removing spruce trees and clearing old conifer plantations. They planted 9.5 ha of meadows with common bistort (*Persicaria bistorta*), a foodplant for the larval stage of violet copper; closed 587 m of drains to retain water in wetland habitats; established 12.5 km of fences; excavated 6 ponds; and planted 7 676 hedge species and trees. In addition, the project built one cattle shed and established a walking trail.

The project team finalised 10 Natura 2000 management plans, and worked closely with farmers who signed 17 biodiversity management contracts covering more than 70 ha. The positive impacts of the project's actions are expected to last for at least the next ten years

In addition, the project helped extend two Natura 2000 sites (Vallées de la Tretterbaach and Troisvierges Cornelysmillen), in which new violet copper butterfly populations were discovered by the LIFE project team.

The project used innovative wetland restoration techniques, some of which had not previously been applied in Luxembourg. These included the use of a low-impact Pistenbully tractor (especially developed for working in nature reserves) for mechanised mowing and willow-root removal; the re-meandering technique applied on part of the Tretterbaach rivulet; and the techniques tested to identify the best method for transplanting common bistort rhizomes to restore grasslands.

For further information:  
<http://life-eisleck.eu>

## Find out more about LIFE and LIFE projects

### Search the LIFE website

The LIFE website provides a wealth of information on the LIFE programme:  
<http://ec.europa.eu/life/>



### Search the LIFE projects database

For further information on LIFE projects in Luxembourg or LIFE projects in general, please consult the online LIFE projects database:  
<http://ec.europa.eu/environment/life/project/Projects/index.cfm>

This easy-to-use database is the authoritative source of information on all ongoing and completed LIFE projects. It also provides information on the beneficiaries, their contact details, and the projects' websites.



### Search via social media



twitter.com/LIFE\_Programme



<http://www.facebook.com/LIFE.programme>

### Contact

#### The National Contact Point for Luxembourg

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#### The Monitoring Team for Luxembourg

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<b>Recently closed and ongoing LIFE Environment and Resource Efficiency projects</b>				
Project Title	Project Number	Website	Click on the icon to read the project summary	Project duration
Factory of the Future: Demonstration of the production of wood panels with near-zero environmental footprint (Factory of the Future)	LIFE11 ENV/L/000854	<a href="http://www.kronospan.lu/fr/factoryofthefuture">http://www.kronospan.lu/fr/factoryofthefuture</a>		06/2012-> 12/2015
Erection of a demonstrative de-oiling plant for recycling oily steelmaking sludge and mill scales (PLD)	LIFE11 ENV/L/000855	<a href="http://pld-life.eu/">http://pld-life.eu/</a>		09/2012-> 09/2015
Demonstration and validation of Direct Injection of CNG in vehicle engines and its environmental benefits (LIFE DI-CNG)	LIFE13 ENV/LU/000460	<a href="https://www.delphi.com/direct-injection-compressed-natural-gas">https://www.delphi.com/direct-injection-compressed-natural-gas</a>		06/2014-> 05/2018

<b>Recently closed and ongoing LIFE Nature &amp; Biodiversity projects</b>				
Project Title	Project Number	Website	Click on the icon to read the project summary	Project duration
Restoration of Unio crassus rivers in the luxemburgish Ardennes (Resto-unio)	LIFE11 NAT/LU/000857	<a href="http://www.unio.lu/">http://www.unio.lu/</a>		09/2012 -> 12/2018
Restoration of wetlands and associated endangered species in the Eisleck Region (LIFE Eisleck)	LIFE11 NAT/L/000858	<a href="http://life-eisleck.eu/">http://life-eisleck.eu/</a>		09/2012 -> 08/2017
Conservation and management of species-rich grasslands by local authorities (Conservation and management of species-rich grasslands by local authorities)	LIFE13 NAT/LU/000068	<a href="http://www.sicona.lu/">http://www.sicona.lu/</a>		06/2014 -> 06/2019
Restoration of calcareous grassland in eastern Luxembourg (Life Orchis)	LIFE13 NAT/LU/000782	<a href="http://www.life-orchis.eu/">http://www.life-orchis.eu/</a>		09/2014 -> 08/2019
LIFE Bats & Birds - providing Bed and Breakfast for Bats & Birds (LIFE Bats & Birds)	LIFE18 NAT/LU/000136	<a href="https://www.naturemwelt.lu/project/life-bats-birds/">https://www.naturemwelt.lu/project/life-bats-birds/</a>		09/2019 -> 08/2025