



LCA4Regions

Interreg Europe



European Union
European Regional
Development Fund

Overview of Good Practice in the LCA4Regions Project

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sustainable solutions

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Recall

What is a good practice?

An initiative (e.g. methodology, project, process or technique) carried out under one of the programme's topics:

-  Research & Innovation
-  Low-carbon economy
-  SME Competitiveness
-  Environment & resource efficiency

✓ Proven successful, tangible results

✓ Good practice: potential for learning and inspiration

Some GP criteria

Clear objectives and public purpose (sustainability)

Based on standardised (life cycle) methodology

Metrics - visible, measurable outcomes

Considers secondary 'spill-over' impacts in life chain

Can be replicated in other regions

Learning points and challenges made clear

Inspiring to stakeholders

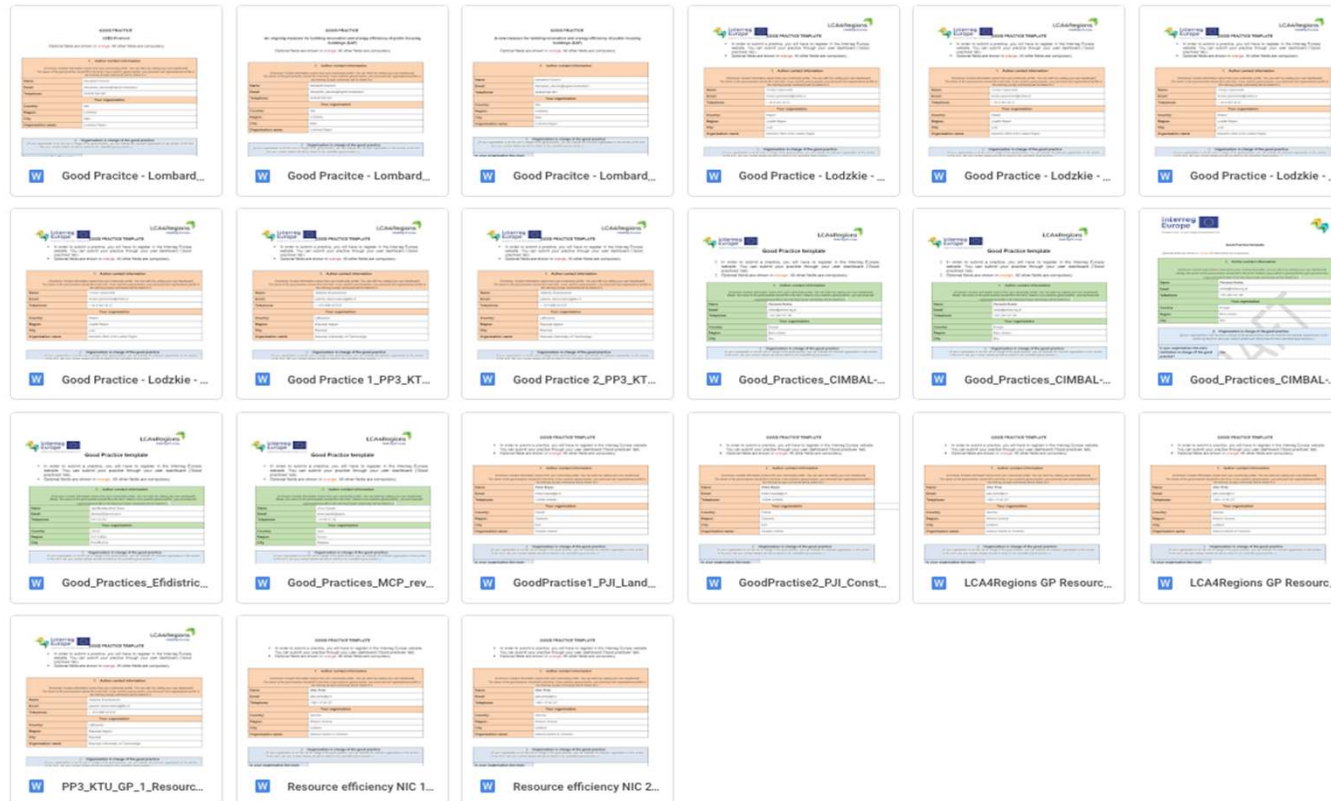
Good practices submitted to TLJ2

Shared with me > ... > Good Practices > GP on resource efficiency > 



Files

Name ↑



The image displays a grid of 24 document thumbnails, each representing a good practice submission. Each thumbnail contains a form with various fields and a 'W' icon in the bottom left corner. The thumbnails are arranged in a grid with varying colors (orange, green, blue) and some have a watermark. The titles of the documents are as follows:

- Good Practice - Lombard...
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- Good Practice - Lodzkie - ...
- Good Practice - Lodzkie - ...
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- Good Practices_CIMBAL...
- Good Practices_CIMBAL...
- Good Practices_CIMBAL...
- Good_Practices_Efidistic...
- Good_Practices_MCP_rev...
- GoodPractice1_PJL_Land...
- GoodPractice2_PJL_Const...
- LCA4Regions GP Resourc...
- LCA4Regions GP Resourc...
- PP3_KTU_GP_1_Resourc...
- Resource efficiency NIC 1...
- Resource efficiency NIC 2...

Overview of Good Practice LCA

useful outcomes so far

- **Increased consciousness of life cycle issues**
- **Most used assessment instrument is LCA, management tool is EPD**
- **Increasing use of standardised methodologies**
- **LCA/LCM use by public sector as well as by industry**
- **Some measurable RE results achieved**

Overview of Good Practice so far

where is the potential to improve ?

- **Reduce variation in format and quality; many GP are 'off target'**
- **Partners' conclusions to be more analytical, less descriptive**
- **More emphasis on results, challenges, learning potential**
- **Stronger links made to public policy on resource efficiency**
- **Discuss how LCA was used, not just mention the name**
- **More mention of stakeholder participation**
- **LCA by and for industry to refer to public policy & institutions**
- **Broaden the application beyond buildings & construction.**
- **Broaden vision of SDGs in RE beyond energy and greenhouse gas reduction (SDG 7,12,13)**

3 examples of Good Practice



Good Practice LCA for improving use of hazardous chemicals in industry (Lithuania)

Good Practice carbon footprinting for GHG reduction in public services (Navarra)

Good Practice land assessment to improve public amenity (Satakunta, Finland)

Key features

- + Variety of application areas
- + Standardised assessment methodology
- + Assessment was followed by management action
- + Link to public policy and regulation
- - Did not mention SDGs. Rather short life chains considered

Observations on GP and RAB

GP can build on regional strengths and opportunities

Think of the entire toolbox, not only LCA !

Cost of LCA – Is it a cost or investment ?

Data difficulties – regions to build their databases, esp for MFA

Look more widely – sustainability and the SDGs are not only about GHG/energy, and not only about buildings

GP to focus on supporting old industries, or to promote innovation in a post-Covid economy ?

GP LCA leads to RE Action



Navarra example

GP life cycle tool used:

Carbon footprinting for GHG production in public services (Navarra) identifies hot spots for action.

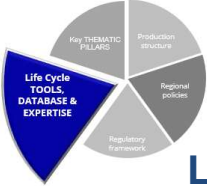
Policy action taken:

Emission reduction measures 2018 (TCO₂ eq):

- Buy “green” electrical energy – 3,416
- Incorporation of hybrid buses into urban transport - 607
- MCP Electric Vehicle Fleet - 5,7
- Organic matter for composting - 1,1


Emission compensation measures:

The MCP compensates its Carbon Footprint by purchasing emission rights. These rights are acquired in certified reforestation projects.



LC Assessment tools

Use of the LC toolbox, Navarra



Calculation of Carbon emissions in services of the Commonwealth of the Region of Pamplona: analysis of services and facilities to calculate greenhouse gas emissions (water cycle, urban waste, urban transport). Registry of carbon offset and CO2 absorption projects. 15 organizations in Navarra have registered their carbon footprint.

Carbon footprint

- Navarra asparagus and the cured sheep cheese Latxa de Lezaun
- Oil production - oleohealth 2013- calculation of GHG emissions

MFA (Materials Flow Analysis) - Inventory of GHG emissions in Navarra: evaluation of GHG emissions taking into account both the **sectors** that originate them and the **type** of GHG

LCA for organic extra virgin olive oil 2008-2010: LCA, SLCA, and LCC to assess environmental, economic and social impacts.

Footprint calculation models
 UMBERTO; SIMAPRO; SIMUR; EURENERS; ENECO

Indicators: See section 4.5 on the regional analysis

LC Management tools

Eco-design ISO 14006

- LCA for designing healthy and sustainable food menus in municipal schools

Eco-label: Register of Navarra Products with European Ecological label:

- tissue paper napkins of SCA Hygiene Spain S. Com. P.A
- quilt and mattress protector from Textiles Inducam SL
- Hotel Rural Aribe
- lubricating greases from Verkol, S.A.U

EPD (Environmental Product Declarations) - use of LCA to support certification

- EGGNOVO, has 3 EPD for different products derived from eggshells
- ACCIONA and SIEMENS GAMESA have 6 and 9 registered EPDs each for installed wind farms.

Ecological Footprint – regional environmental footprint considering material resources and waste generated for the maintenance of the production and consumption model of the community.

Carbon footprint reductions

- Carbon offset scheme for municipal energy consumption
- Purchase of green energy by municipality
- Energy efficient public transport (buses)

Management Systems ISO 14001 (427 certified organizations) and **ISO 50001** (9)

Circular and sustainable materials management:

- Reusing drinking glasses at parties and events for public services
- “Nights without plastics” in Informal Room of Tafalla to reduce footprint of events
- Olite, ecological municipality to eliminate plastic material, and decrease footprint
- ECOCIRPLAS Project - life cycle analysis approach to waste management in the Foral Community, promoting waste reduction and its reuse and recycling as key management principles.

Green Procurement:

- LCA and calculation of Carbon Footprint for road cleaning tenders of Pamplona

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Status of Good Practice so far

**Taken together, the content and structure has
shown much progress, but more work is still
needed to optimise the GPs for strong
exchange of learning experience between partners**



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Thank you!

Questions welcome

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