



European Union European Regional Development Fund

Good Practice Energy and financial monitoring in Maribor

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Director of Energy Agency of Podravje in Maribor

17 October, 2017 | Seville (Spain) Low-Carbon Economy Policy Learning Platform

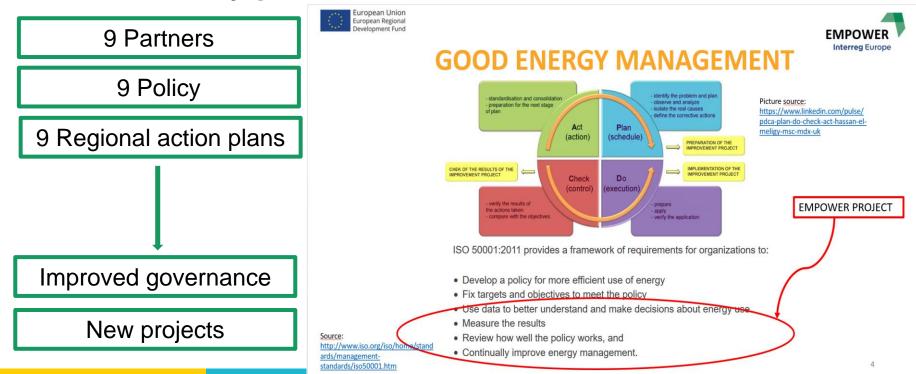
EMPOWER - More carbon reduction by

dynamically monitoring energy efficiency -





exchange of good practices on dynamically monitoring energy efficiency in buildings, with special focus on the use of innovative financial instruments, in order to achieve more carbon reduction and to improve lowcarbon economy policies.



Good Practice in Maribor, Slovenija: EN Central energy and financial monitoring



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 Maribor is second biggest city in Slovenia and started with central energy and financial monitoring in 2007.

 Today it includes more than 200 local public buildings with monthly data about energy use and costs.



- Centrally managed by energy agency.
- Continuous 1-2 % yearly savings because of systematic monitoring.
- Nominated as one of the three EU Managenergy Award in 2010.



ADVANTAGES:

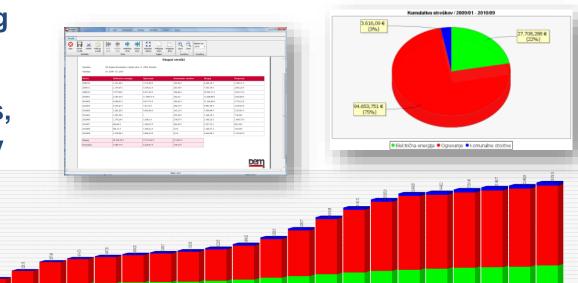
- easy to use via web,
- all data fast reachable by all users,
- accepted by users, local administration, City Council,
- for planning and checking the results for individual and group of buildings,
- identification of saving potential,
- for energy contracting models planning and implementation,
- for energy certificates,
- good basis for energy management,
- not expensive

DISADVANTAGE:





- not upgraded to energy management yet,
- not linked to financial planning office of the municipality,
- needs permanent energy manager to follow on central level,
- cost: ca 30.000 EUR per year







Good practice could be used by:

- Owners of all public and other buildings,
- energy and utility managers,
- financial managers,
- Useful for end-users (information)
- Also useful as an educational tool.





http://www.kasalis.com/blog/2015/12/03/smart-homes- 5



Find out more:

at Energy Agency of Podravje • www.energap.si info@energap.si

Municipality of Maribor mestna.obcina@maribor.si

Interreg Europe EMPOWER project https://www.interregeurope.eu/empower/



Project summary

EMPOWER

carbon reduction by dynamically monitoring energy efficiency) works exchange of good practices on dynamically monitoring energy efficiency in buildings, th special focus on the use of innovative financial instruments, in order to achieve mo





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Thank you!





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Good Practice COMPLEMENTARINESS OF PUBLIC FUNDS

Javier Ordoñez Muñoz

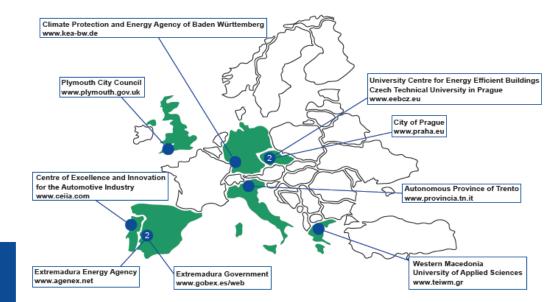
Head of the International Projects Area of Extremadura Energy Agency

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About the FINERPOL project

Improvement of specific regional policies and ERDF OP in **7 EU regions**, involving 5 Managing Authorities with competences in ERDF for EE and RES projects



8 Action Plans.

- 28 policy learning events organised.
- More than 140 best practices identified.
- One transnational Ex-ante Assessment methodology.
- One Ex-ante Assessment per Action Plan.
- 120 stakeholders with increased capacity.
- 350 people attending interregional cooperation events.



Good Practice: COMPLEMENTARINESS OF PUBLIC FUNDS

- □ 1st Interregional Event held in Extremadura analysed actions in energy rehabilitation with FEDER funds.
- ELENA program allows to complement and optimise investments.
- Integration of other European EIB funds and INTERREG programs



Advantages & Disadvantages

ADVANTAGES:

- Coordination in the management of public funds.
- ✓ Cost-Effect Improvement
- Makes it possible to carry out actions that are not otherwise feasible

DISADVANTAGES:

- Difficulty in the management and coordination of different funds at the same time.
- Difficulty in changing habits in innovation with public funds.

Who is this GP useful for?



- 1. Any organisation working in large-scale investment programs in the area of energy efficiency, distributed renewable energies and sustainable urban transport.
- 2. In particular, Plymouth City Council, partner of FINERPOL project, with the advice of Extremadura Energy Agency, has submitted a proposal for assistance from ELENA to the EIB.



Find out more...

✓ FINERPOL project:

https://www.interregeurope.eu/finerpol/

✓ Extremadura Energy Agency:

http://www.agenex.net/en/

✓ European Investment Bank:

http://www.eib.org/index.htm?lang=en





Thank you!

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Good Practice PICARDIE PASS RÉNOVATION

Javier Ordoñez Muñoz

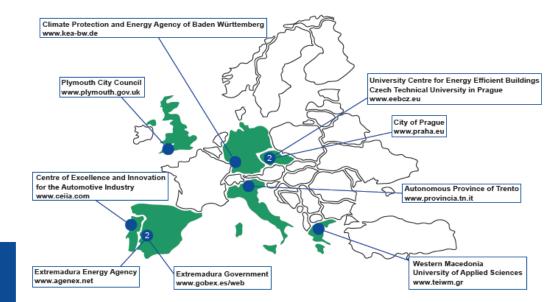
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Good Practice: PICARDIE PASS RÉNOVATION

GENERAL INFORMATION

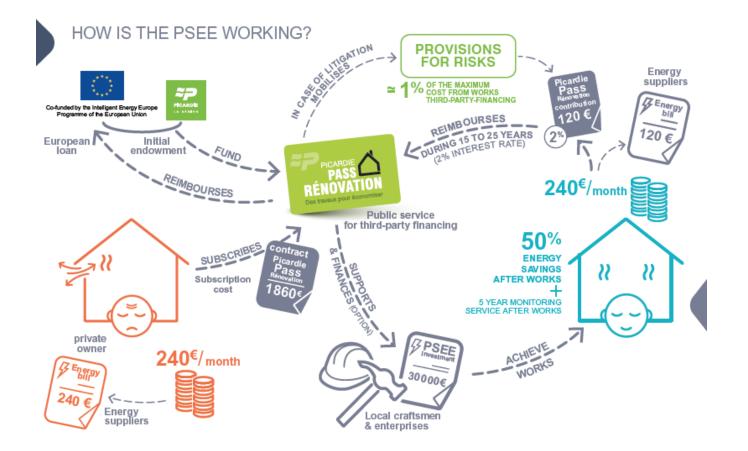
- Country: France
- Region: Picardie Region
- Type of FI: Loans+ Grants+ Incentives
- Ownership: Public
- Managing Authority: Regional Council of Picardie (Conseil Régional de Picardie)
- Fund Manager: SPEE Picardie
- Fund size: 59M€
- Type of projects: Energy efficiency
- Subtype of projects: Building retrofit







Good Practice: PICARDIE PASS RÉNOVATION





Advantages & Disadvantages

ADVANTAGES:

DISADVANTAGES:

- Coordination in the management of public funds.
- ✓ Cost-Effect Improvement
- ✓ Replicability

 Difficulty in the management and coordination of different funds at the same time.



Who is this GP useful for?

Picardie Pass Renovation Model can be useful for:

- 1. Any organisation working in cohesion funds. The generation of new Financial Instruments is a main challenge for the coming period 2014-2020 and FINERPOL project can contribute to such development.
- 2. In particular, AGENEX is already defining a new Financial Instrument based on this GP. Economic, organisational, management and coordination models have been facilitated for the development of the Extremadura model.



Find out more...

✓ FINERPOL project:

https://www.interregeurope.eu/finerpol/

✓ Extremadura Energy Agency:

http://www.agenex.net/en/

✓ Picardie Pass Rénovation:

http://www.pass-renovation.picardie.fr/





Thank you!

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www.interregeurope.eu/finerpol







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Bood Practice

Energy renovation of buildings

- Kindergarten Ptuj (Slovenia)

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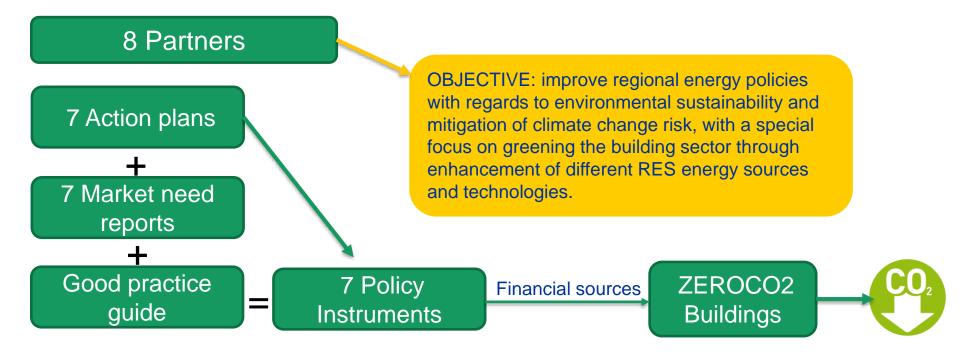


ZEROCO2 project

PROMOTION OF NEAR ZERO CO2 EMISSION BUILDINGS DUE TO ENERGY USE

ZEROCO2 building = building with zero or near zero CO2 emissions due to energy use

= With the combination of different renewable energy technologies to cover the entire energy demand of the building.





Good Practice – energy renovation of the Kindergarten Ptuj

- Kindergarten Ptuj comprises of 10 buildings owned by Municipality of Ptuj
- 2013-2014 energy renovation with the aim of reducing energy consumption for heating and ensuring favourable conditions for children
- 7 buildings were renovated total heating surface of 4.408 m²
- Measures on envelope: Windows (935 m²), Facade (2.323 m²) and Attic (4.408 m²)
- Total investment 1.028.130 EUR
- Co-financed: 749.712 EUR by European cohesion fund
- Subsidy granted by the Call: Energy renovation of primary schools, kindergartens, health centres and libraries owned by local communities, for the period 2007 – 2013 (responsible body – Ministry of Infrastructure).

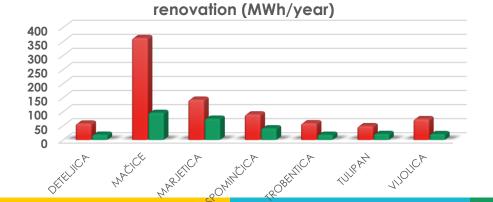
ADVANTAGES:

- ✓ Energy savings of 544,5 MWh/year
- ✓ Reduction of energy consumption 65 %
- ✓ Money savings: 26.000 €/year (59 % reduction of the costs for energy supply)
- Better conditions for children in and improved working conditions for employees
- Environmental friendly and energy efficient buildings

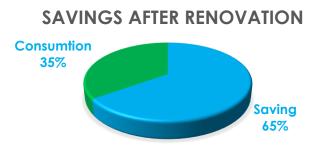
DISADVANTAGES:



- × Only measures on building^{™™} envelope eligible for cofinancing
- × Heating/cooling systems have stayed the same
- × Grant scoring system rewards larger energy savings
- × If the foreseen savings are not met – refund of the cofinancing part
- × Grants only available for a limited time
- × Depends on availability of cohesion funds



Energy consumption before and after energy





Who is this GP useful for?

All building owners or users can implement energy efficiency measures in order to reduce energy consumption and to save money:

- Public sector
- Local community
- Private sector
- Apartment owners and the housing sector



Find out more:

- Local Energy Agency Spodnje Podravje: <u>http://www.lea-ptuj.si/</u> <u>info@lea-ptuj.si</u>
- Interreg Europe ZEROCO2 project: <u>https://www.interregeurope.eu/empower/</u>
- Kindergarten Ptuj: <u>http://vrtec-ptuj.si/</u>
- Ministry for Infrastructure Slovenia: <u>http://www.mzi.gov.si/en/areas_of_work/energy/energy_renovation_of_b</u> <u>uildings/</u>
- <u>https://www.facebook.com/ZEROCO2Project/</u>
- <u>https://twitter.com/ZeroCo2_Project</u>



THANK YOU!



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