



European Union
European Regional
Development Fund

Good Practice Donegal Energy Management

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at ERNACT**

17 October, 2017 | Seville (Spain)

Low-Carbon Economy Policy Learning Platform

About the CLEAN project

Increase **energy efficiency** in housing and public infrastructure **by 4%** through technology, open innovation and improved low-carbon policy instruments.

Regional Action Plans

Enhanced policy instruments

New projects

9 partners will work together until **2022** to improve the capacity of their policy instruments to increase energy efficiency in housing & public infrastructure.

Good Practice in Donegal

**Donegal County Council
are the second Council in
Ireland to achieve the ISO
50001 Accreditation!**



In a short period of time, DCC:

- ✓ **Noticed significant energy savings: reduced energy consumption in buildings between 5%-10% without any physical projects:**
 - ✓ Better behaviour
 - ✓ Raising awareness

Good Practice in Donegal

Developed an **Energy Management System** to:

- ✓ Manage the energy performance / consumption
- ✓ Plan a program on energy savings / objectives

They've identified the **Significant Energy Users**:

1. Street lighting 2. Road transport 3. Public buildings

Broken energy consumption down to 3 types:

1. Electricity 2. Heating 3. Transport fleet

Main Objective > Reduce energy consumption

Advantages & Disadvantages

ADVANTAGES:

- ✓ The organisation takes the responsibility for its **energy performance**.
- ✓ Predict, monitor & measure the consumption.
- ✓ Identify potential savings / weaknesses.
- ✓ Save money / energy.
- ✓ Reinvest those savings into new projects.

DISADVANTAGES:

- × Not enough administrative resources.
- × Resources are needed to maintain the Energy Management System.

Who is this GP useful for?

“Any organisation that is using energy can implement an energy management system, no matter how big or small. If you are using energy, you should be managing it and this accreditation ensures that you are reviewing your energy consumption”

***Paddy Mullen
Facilities Manager at
Donegal County Council***

Find out more...

✓ **About ISO 50001 Energy Management Accreditation:**

<https://www.iso.org/iso-50001-energy-management.html>

✓ **Sustainable Energy Authority of Ireland:**

<https://www.seai.ie/energy-in-business/>

✓ **Paddy Mullen from Donegal County Council:**

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Social Green

Interreg Europe



European Union
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Good Practice – Sõpruse 202, Tallinn (EST)

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Low-Carbon Economy Policy Learning Platform

Social Green

Objective

Improve local/regional policy by targeting the link between green building and social housing/fuel poverty

I Social housing policies and local retrofitting/construction projects I

Improved ROP implementation

Local Action Plans

Knowledge exchange

Sõpruse 202, Tallinn (Estonia)



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Sõpruse 202

Tallinn, Estonia

An ambitious deep renovation of an Eastern Bloc apartment complex, coupled with an innovative national financing policy demonstrates that major energy efficiency improvements can be achieved without burdening residents with significant rent increases.

Site size: 10 000m ²
Number of units: 162
Unit size: 1-5 rooms
Energy use: 62 kWh/m ²
Total cost: 2 052 000€
Transferrable renovation strategy
Innovative grant & soft loan model

Sõpruse 202, Tallinn (Estonia)

Difficulties

- Slow start-up of Kredex – due to the novelty of the application scheme and inertia of previous decision making systems
 - Free consulting service and training sessions
- Unintentional impacts on regional policy: market prices and scale of buildings have caused preferential support to larger towns
- Other regions in EU have had nowhere near the same success in developing schemes
 - Managing Authorities, national government, and regional energy agencies must enable local success!
- Retrofitting can often take a backstage to new construction

Sõpruse 202, Tallinn (Estonia)

Who is the good practice useful for?

- Local and Regional planners responsible for social and/or public housing
- Regional and national policy makers and administrators for ROPs and housing policy
- European policy makers
- PEOPLE!

More information

- Operational Programme 2014-2020: http://www.strukturifondid.ee/eng/implementation_1420
- Media: <http://ouman.fi/en/a-housing-company-needs-sharp-brains/>



<https://www.interregeurope.eu/socialgreen/>



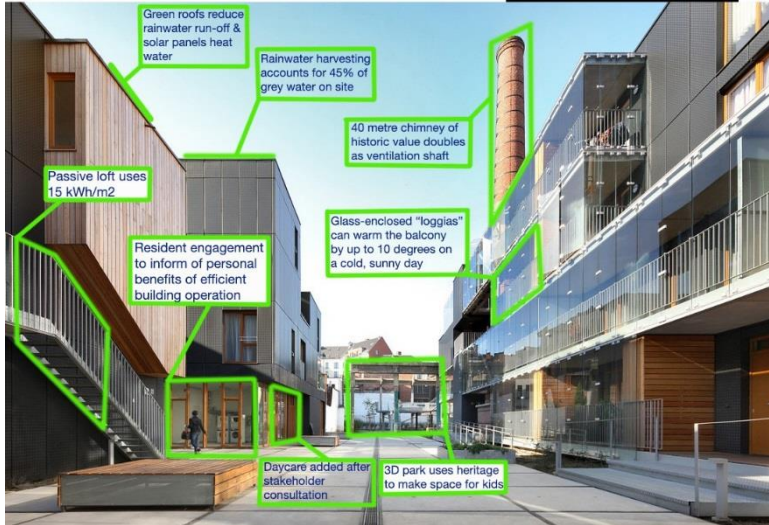
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Savonnerie Heymans

Brussels, Belgium

The transformation of a disused soap factory into architecturally stunning, resource efficient, 100% social housing demonstrates what can be achieved when sustainability, social equity and placemaking become the centerpieces of redevelopment.

Site size: 6,500 metres
Number of units: 42
Unit sizes: 1-6 rooms
Energy use: 48 kWh/m ²
Passive energy loft unit
Distance to transit: 200 metres
Total cost: 10,600,000€



Via Verde

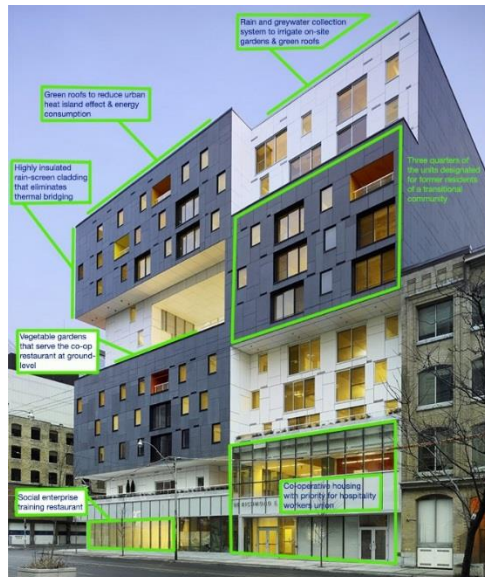
The Bronx, USA

Constructed on the brownfield site of a former gas station Via Verde was conceived as a mixed-income housing solution for residents of the extremely diverse neighbourhood and as a model for what city could do with its abundance of vacant lots. In a community where childhood obesity and asthma rates are high, a focus on healthy lifestyles was key component of the development process and outcome.



- 1) Rooftop for all residents that includes a playground
- 2) Solar panels that power light in all common areas
- 3) 7th floor fitness centre that is free for residents
- 4) 151 dwellings are affordable housing
- 5) Next to 2 public schools, supporting freedom for all ages
- 6) Extensive green & healthy outreach with residents
- 7) 71 dwellings are co-operative housing
- 8) Rooftop garden produces 1000kg of food per year

Site size: 6000 square metres
Number of units: 222
Unit sizes: Studio to 3 bedrooms
Energy use: LEED Gold
Focus on healthy lifestyles & diversity
Distance to transit: 500 metres
Total cost: \$98,800,000 US



60 Richmond East Co-operative

Toronto, Canada

A new cooperative built on the east side of downtown Toronto. Tenure was directed to residents who were relocated as part of the refurbishment of the enormous Regent Park public housing precinct and low-income members of the city's hospitality industry. This novel development was born of collaboration between the hospitality workers' union, Toronto Community housing, and the local city councillor.

Site size: 1000 square metres
Number of units: 85
Unit sizes: 1-4 bedrooms
Energy use: LEED Gold
Co-operative restaurant
Distance to transit: 280 metres
Total cost: \$20,400,000 CA



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Thank you!

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<https://www.interregeurope.eu/socialgreen/>



@SocialGreenproj



Green Screen
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Smart technologies to reduce energy consumption

Morgane Baudin

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Ile-de-France Region's Film Commission

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The Green Screen Project

Greening the Creative Industries: Improving policy practices for the European Audiovisual industry

Why ?

Only in France, the audiovisual industry is responsible for 1 million tonnes of carbon emissions each year (travels, energy for camera, lighting and other equipment, waste from catering, building of sets etc.)

Who ?

Our project is a partnership between eight key European film-making regions:

- Film London (UK)
- Municipality of Ystad (Sweden)
- Flanders Audiovisual Fund (Belgium)
- Ile-de-France Film Commission (France)
- Bucharest Ilfov Regional Development Agency (Romania)
- Promálaga (Spain)
- Rzeszow Regional Development Agency (Poland)
- Regional Development Agency Senec – Pezinok (Slovakia)

When ?

2017-2021

Good practice: smart technologies to reduce energy consumption

THE PROBLEM

Studios need data centers and computing clusters to make animation and digital visual effects. They require energy to work but also energy to be cooled down: energy consumption x2

THE SOLUTIONS

Give the unavoidable heat produced to those who need it:
Stimergy: digital boiler (data centers which heat water)
Qarnot Computing: computing heater (microprocessors inside house radiators)

Advantages and disadvantages

Advantages	Disadvantages ?
Ecological: energy consumption potentially divided by three	Financial investment ?
Financial: Reduce energy spendings on energy	Adaptability to one particular business ?
Technical: Flexible to the needs	Network effect ?

Useful because...

Satisfaction of widely-shared needs:

- Computing power or data storage
- Heating

More than an innovative technology, smart thinking:

- Imagining existing problems as potential solutions
- Imagining existing waste as potential resource (circular economy)
- Beyond the borders of one activity or sector.

More Information

Green Screen Project

<https://www.interregeurope.eu/greenscreen/>

Stimergy

Their website: <https://stimergy.com/en/>

Video presentation: <https://www.youtube.com/watch?v=yKe8jvLUefk>

Qarnot Computing

- The website: <https://computing.qarnot.com/>

- TV report on Qarnot: <https://www.youtube.com/watch?v=hm2VSd0UZvc>

- Testimony from an animation studio:

<https://www.youtube.com/watch?v=fVIQ1RaGDlc>

Contacts

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Thank you !