



GOALS

- Promote the environmental values in 3 dimensions: local, regional and global
- Promote the social development
- Promote and establish companies with high development value

Supply/Demand side

- Solar Thermal Systems in the Social Housing
- Trigeneration power plant and heating/cooling network

Demand side

- Porto's Historic Centre Rehabilitation
- Observatory of the Energy-environment Sustainability of Buildings in Porto

Supply / Demand

Promote renewable energies

5000 m² of solar thermal panels in the social housing until 2011

How?

Contracting an **ESCO** (Energy Services Company) to co-finance, project, construct, acquire, install, explore and maintain the solar thermal system

Assure that the **final consumer** has environmental, energetic but also financial **benefit**

Apply to European structural funds to finance about 70% of the project

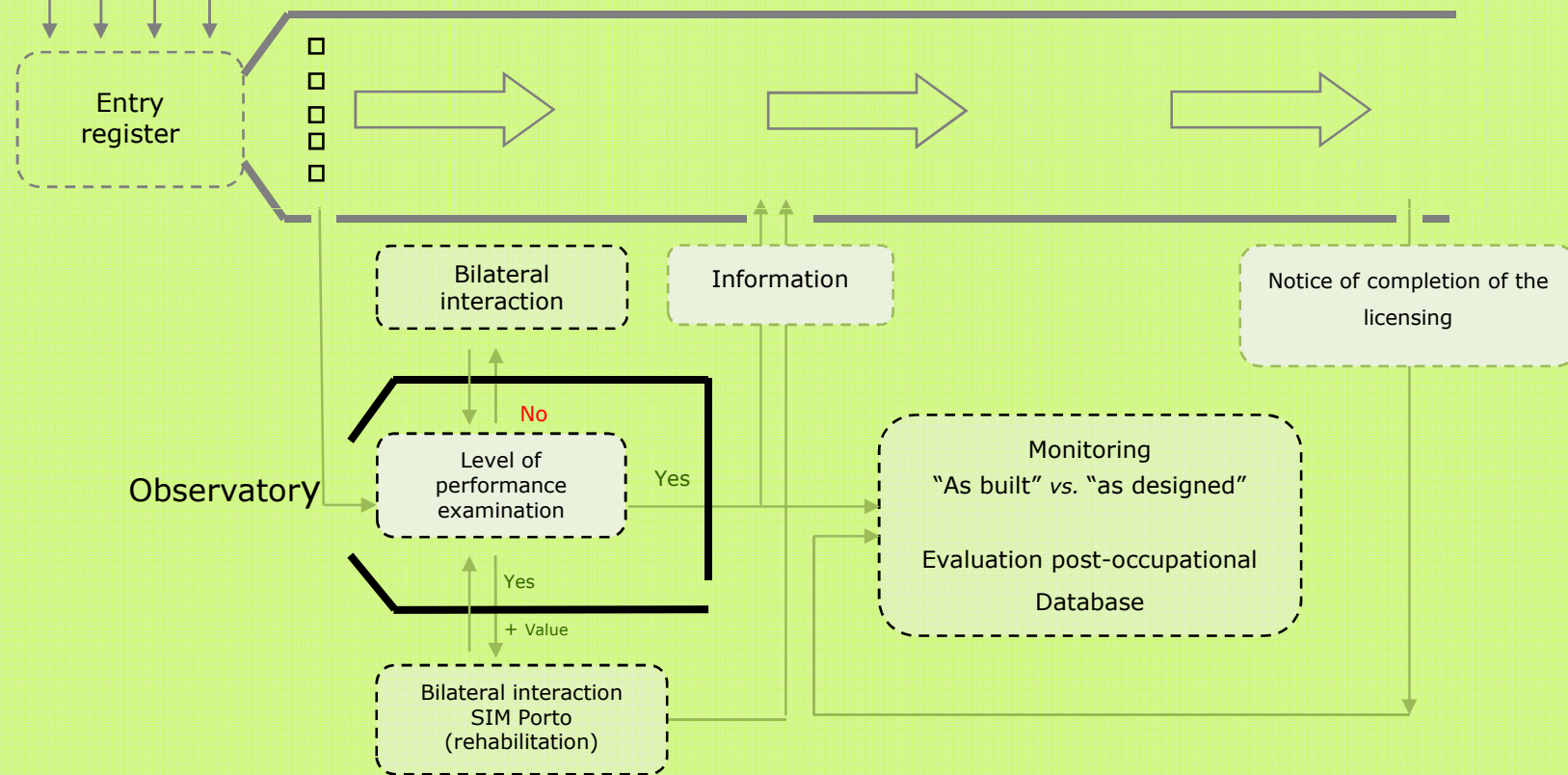
1st phase: 500 m² (procedure open) use less 50.000m³/year of NG ⇒ avoid 107 ton of CO₂/year

2nd phase: 2000 m² (procedure to be launched still in 2009)

3rd phase: 2500 m² (procedure to be launched in 2010)

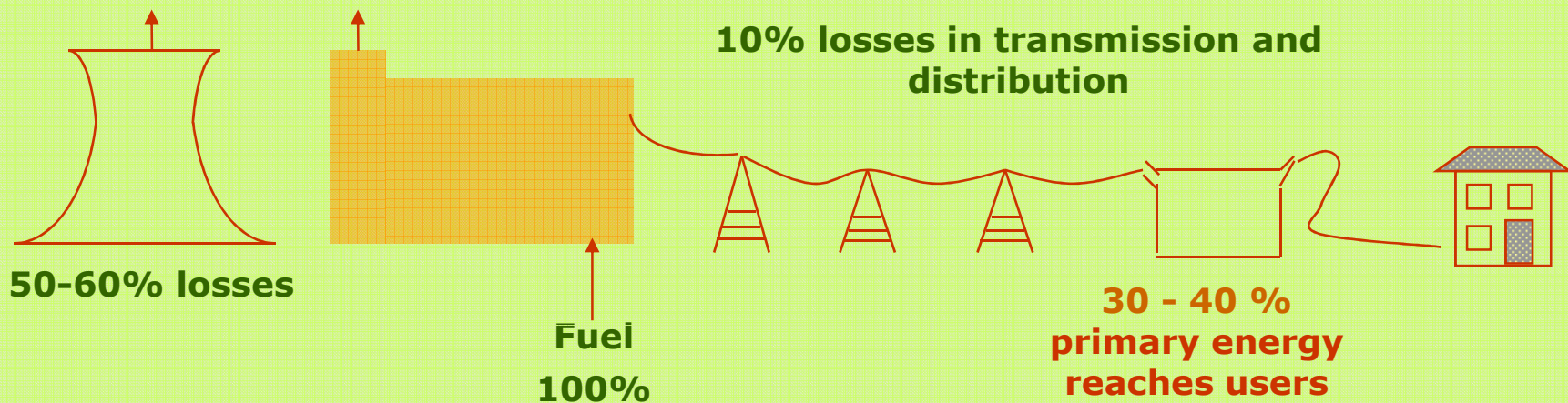
In total use less **500.000m³/year of fossil fuels** ⇒ avoid **>1000 ton of CO₂/year**

energy demand strategy (EC Directive 92/2001, national standards, city incentives, quality control and quality promotion)

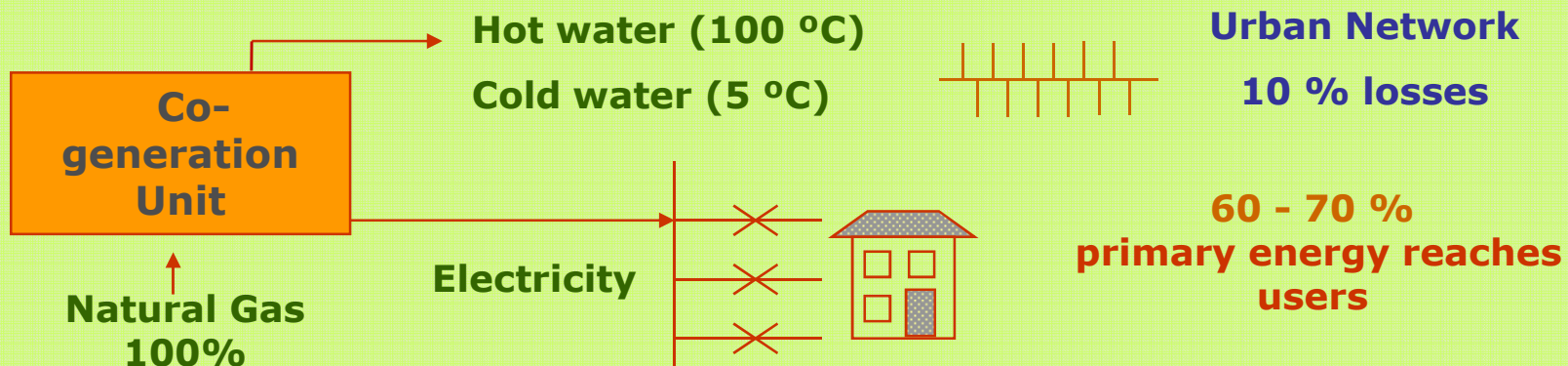


Trigeneration vs Conventional Production

Conventional production



Trigeneration





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1. Energy and Sustainability
2. Cities can not be sustainable
3. Cities as energy systems
 - i. Case study of Parque Expo'98 – Lisbon
 - ii. Case study of Porto – 2007 - ...
- 4. Conclusion: Energy as an hidden resource in all activity in the city with a global impact**



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Unesco World Heritage
1996

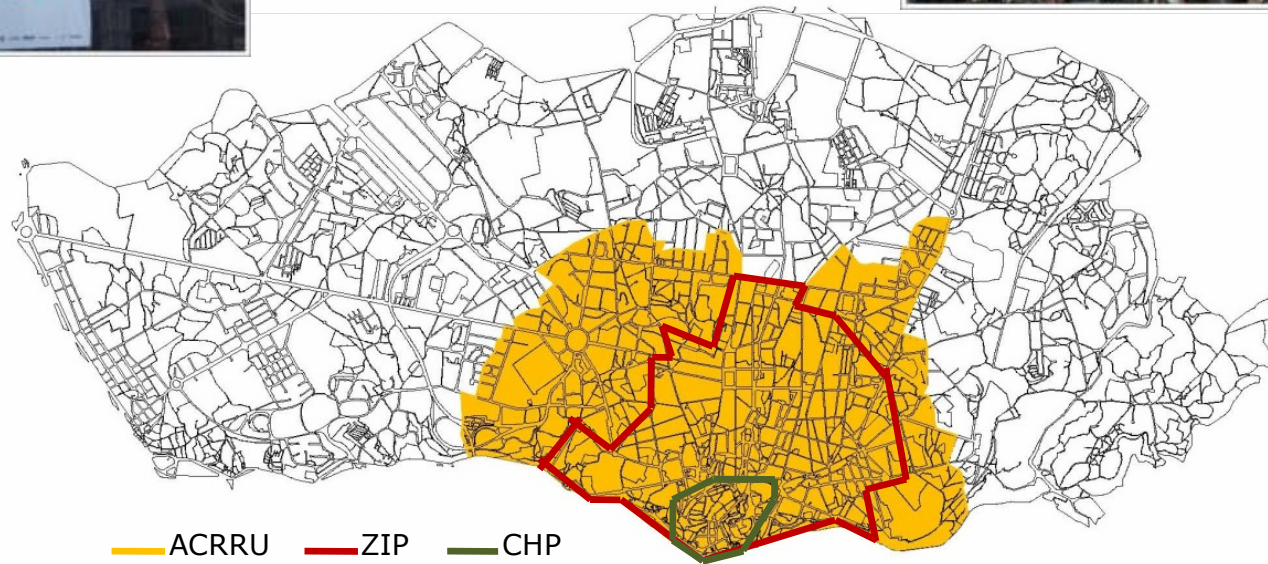
Historic Centre of Porto



Energy Management Agency

Intelligent Energy  Europe

Rehabilitation of Porto Historic Centre



The importance of re-creating the natural in the new and rehabilitated building stock when there is lots of knowledge and culture embedded...





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THANK YOU !

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