



# Concerto/act2 – Lessons learnt

Project Co-ordinator Meeting Brussels

13 October 2008

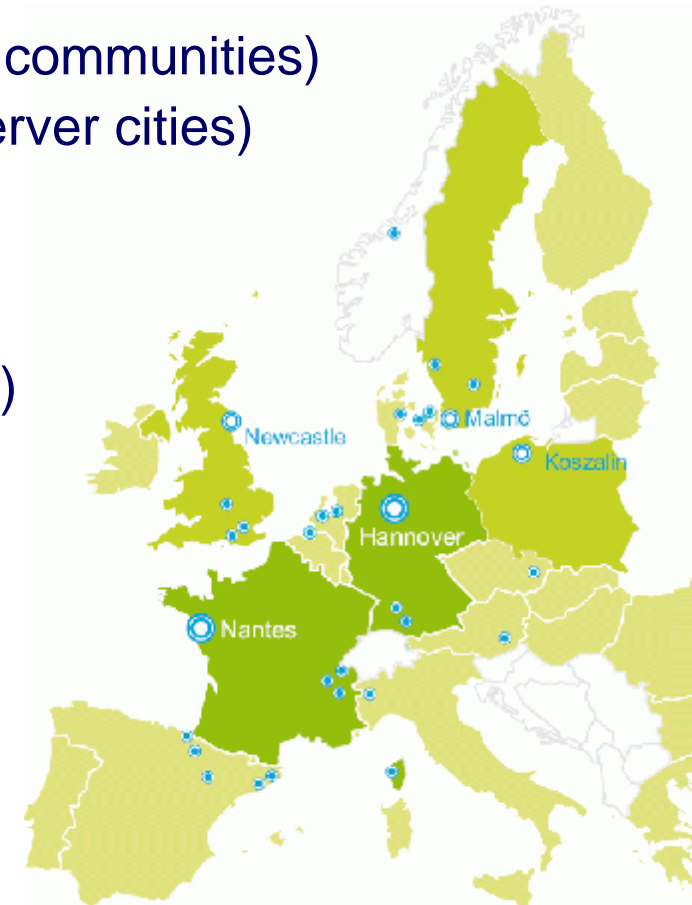


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# Summing up act2



- ▶ 5 Cities with 14 Partners
  - ▶ Hannover, Nantes (Demonstration communities)
  - ▶ Koszalin, Newcastle, Malmö (Observer cities)
  
- ▶ Central Issues:
  - ▶ Retrofitting (Hannover)
  - ▶ Retrofitting and New Build (Nantes)
  - ▶ Integration of RES
  - ▶ Dissemination
  - ▶ Training
  - ▶ Energy efficiency and advice campaigns (EE)
  - ▶ Research on barriers and drivers



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# Demo Hannover - Overview



Demo objects	Number of buildings	Number of apartments	Final energy demand	Renewable energy	
Multi-occupancy-buildings	26 3 (Kronsbergstandard)	217 24	65 – 71 kWh/m <sup>2</sup> 62 kWh/m <sup>2</sup>	District heating of biomass	1.200 MWh/a
	8	72	63 – 73 kWh/m <sup>2</sup>	Wood pellet heating	164 kW
Detached and Semi-detached houses	4 1 (Kronsbergstandard)	7 1	72 kWh/m <sup>2</sup> 62 kWh/m <sup>2</sup>	Solar collectors	41 m <sup>2</sup>
Detached and Semi-detached houses	3	3	72 kWh/m <sup>2</sup>		
Multi-occupancy-buildings	4 (Kronsbergstandard)	34	62 kWh/m <sup>2</sup>		
Schools	2	Halving final energy demand	100–124 kWh/m <sup>2</sup>	PV	32 kW <sub>p</sub>
Public buildings	3 1			Wood fuel heating Solar collectors	1.140 kW 1.800 m <sup>2</sup>
Wood Energy Centre				PV	75 kW <sub>p</sub>



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# Retrofitting



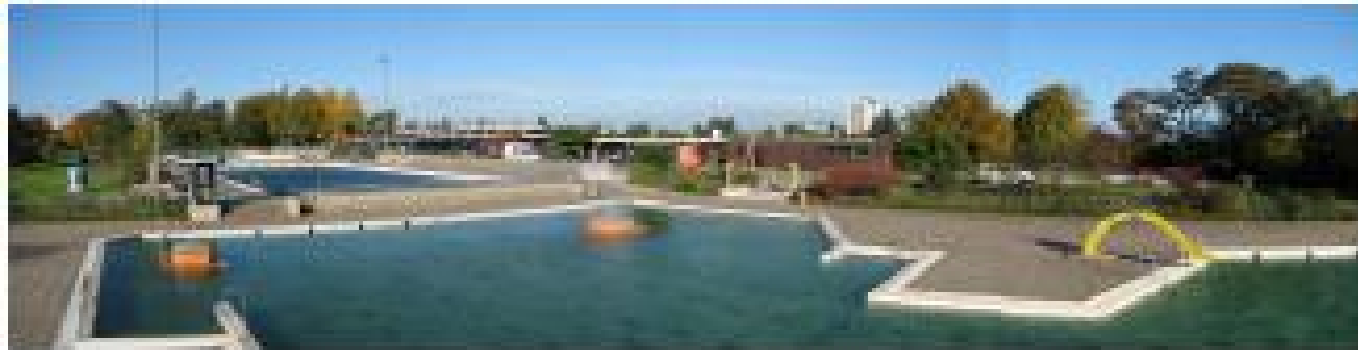
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# Wood Energy Centre



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# Renewables - Lister Bad



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# Demo Nantes status



Résidence Les Forges



Siège de la Nantaise d'Hab et du CIL Atl.



Centrale PV Beaulieu



Habiter les Quais 2



Tripode A



Terrain des Gendarmes



Services CG44

# Demo Nantes - Status



- ▶ 2<sup>nd</sup> demonstration site delivered:  
headquarters of 2 housing companies - 4.248m<sup>2</sup>



Conventional Primary energy consumption  
(regulatory calculation) : **57 kWh/m<sup>2</sup>.a**

(includes space heating, lighting, ventilation, zero  
cooling, auxiliaries, **not electric appliances**)



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# Research Methodology



- ▶ Description of processes
- ▶ Description of barriers
  - ▶ technical / economic
  - ▶ social / cultural
  - ▶ political / legal
- ▶ Development of instruments to overcome barriers
- ▶ Detailed barrier and instruments description sheet
- ▶ Recommendations



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# Research



- ▶ Processes which will be researched:
  - ▶ Energy efficient retrofitting of multi-occupancy houses (housing associations)
  - ▶ Energy Efficient retrofitting (individual house owners)
  - ▶ Energy Efficient New Built
  - ▶ District Heating System
  - ▶ Urban Regeneration
  - ▶ New Energy Standards
  - ▶ Working with the Tertiary Sector



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# Research



- ▶ **Socio economic aspects:**
  - ▶ Tenants survey
  - ▶ Energy advice campaign for low income households
  - ▶ Study on fuel poverty
  - ▶ Calculations of additional costs
  - ▶ Information tenants concerning heating bills after retrofitting in Hannover
  - ▶ Door to door campaigns
- ▶ **Policy recommendations:**
  - ▶ Political Steering Board
  - ▶ Climate Protection Programmes of every act2 City
  - ▶ Covenant of Mayors

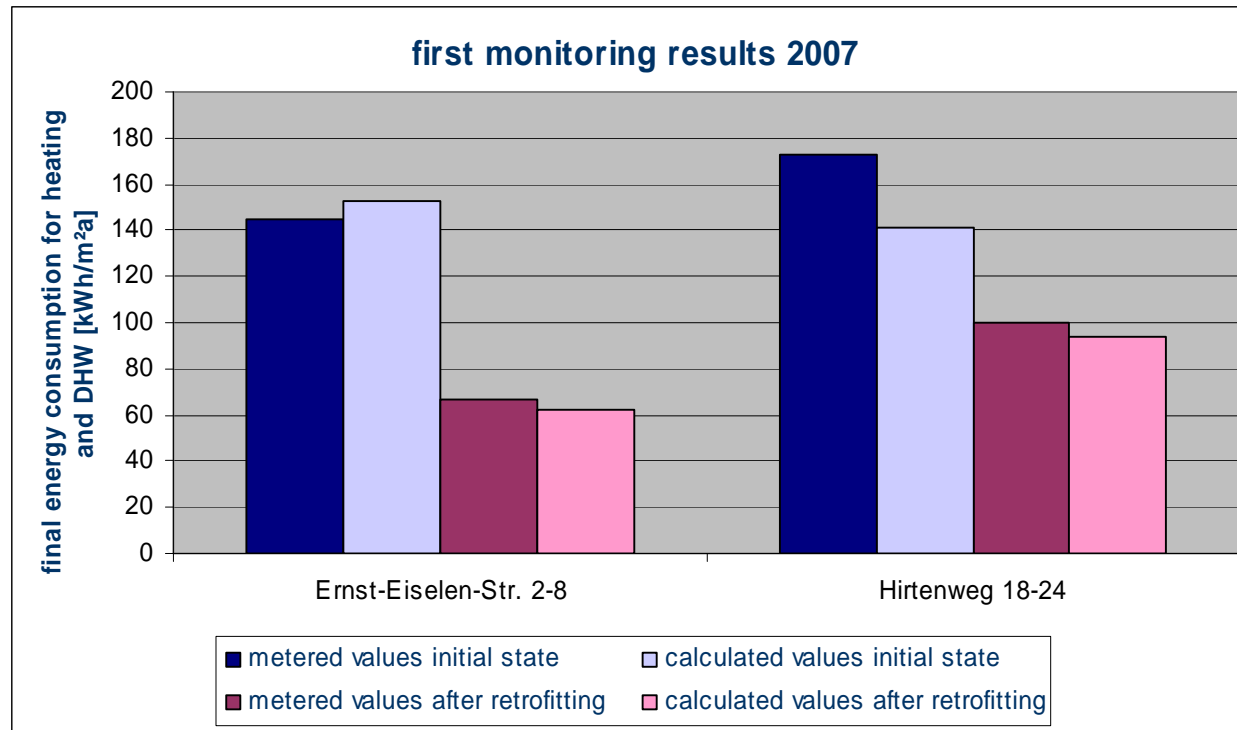


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# Monitoring



## Hannover – Multi-occupancy houses retrofitted by housing associations



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# Dissemination



- ▶ Electronic newsletter twice a year
- ▶ Website [www.concerto-act2.eu](http://www.concerto-act2.eu)
- ▶ Flyer and posters
- ▶ Brochure with case study sheets
- ▶ Banner and roll ups
- ▶ Fortune wheel for kids
- ▶ Lectures during national and international conferences
- ▶ Review of brochure 'Best practise Concerto' examples from Hannover and Nantes in 2010
- ▶ Training brochure 'Quality Assurance Briefings'
- ▶ Local energy week



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# Results and lessons learned



## Implementation needs:

- ▶ Stakeholder Involvement
- ▶ Political support
- ▶ Eco-guidelines Nantes and Hannover
- ▶ Information and technical support for house owners
- ▶ Quality assurance
- ▶ Local and national funding needed



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# Discussion points

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- ▶ Prolongation of the project for one year
- ▶ Audit guidelines (special clause 41)



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