IEE Contractor's Workshop on RES H/C

Brussels, 24th April 2012

UP-RES
Urban Planners with Renewable Energy Skills

INPUT FROM THE UP-RES CONSORTIUM

- Finland : Aalto University School of Science and Technology www.aalto.fi/en/school/technology/
- Spain : SaAS Sabaté associats Arquitectura i Sostenibilitat www.saas.cat
- United Kingdom: BRE Building Research Establishment Ltd. www.bre.co.uk
- Germany :
  - AGFW – Arbeitgemeinschaft Fernwärme www.agfw.de
  - UA - Universität Augsburg www.uni-augsburg.de/en
  - TUM - Technische Universität München http://portal.mytum.de
- Hungary : UD University Debrecen www.unideb.hu/portal/en

1. // Policy, support schemes and financing

- Overall objective: Energy efficient urban development
- The urban planner with little or no skills at all on energy and emissions can be a serious barrier for RES and EE implementation as all urban plans have consequences on the feasibility of various types of RES and EE measures.
- The UP-RES Project addresses the need through implementing pilot training of urban planners to understand the requirements and opportunities of RES. The pilot training is underway in five countries and the training concept and materials will be translated into 10 languages and made available to other European planning schools to adopt similar training.

2. // Local energy (H&C) planning / data requirements

- Need for promotion and implementation of local energy concepts
  - Interaction of various stakeholders, and with urban planners in particular
  - Integration of cadastral and energy performance data
  - Application of energy demand mapping tools in urban planning
  - Agreement on one common indicator: i.e. CO_2eq/inhabitant embracing all energy consumption (buildings, mobility, ….)
  - Integration of available local resources management (geothermal, solar, bio fuels, various waste sources (heat and cold) into regional and urban development plans

3.1 // Capacity building in local authorities – what is needed?

- Mechanisms to promote a common approach in urban planning issues to overcome the actual decision making process within the municipalities that does not support an interaction between the different departments / competences.
- Motivation of decision makers and actors in public institutions to go for demonstration projects on the public level.
- Mechanisms to involve the citizens (as stakeholders but also possible investors in decentralized energy generation schemes)
- Focus on district level as most feasible unit (in order to meet 20-20-20 commitments in the existing tight time schedule)

3.2 // Capacity building in local authorities

- Interaction on European level due to different needs

Market penetration*	Initial	Scarce	Dense	Established
Solar	FI	UK	HU	ES, DE
Wind	FI	UK	HU	ES, DE
Biomass	ES, HU	DE, UK		FI
Waste heat	ES, HU, UK		FI, DE	
District heating	UK	HU, ES	DE	FI
District cooling	HU, UK	DE, ES	FI	
	↓	↓	↓	↓
	Awareness	Knowledge	Competence	Practice

* classification just exemplarily

3.3 // Capacity building in local authorities

- different levels of training for different purposes / stakeholders

Need to prepare:
Lots – especially from public bodies (prescribers) – to get general knowledge,
some private urban planners to attend public tenders prescribed by public bodies,
a few private urban specialists to give support to urban generalists