Opportunities for Professional Development: UP-RES Project
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Supported by European Commission Intelligent Energy Europe programme
(Also relies on securing sponsors!)
Focuses on implementation of renewable heat through district heating networks
Target audience primarily planners but also all those who liaise with planners for renewable energy/district heating system development.

Urban Planners – Renewable Energy Skills (UP-RES)

Why urban planning benefits from district heating and renewables
– CHP (combined heat and power) is the most efficient way to use any renewable fuel to generate heat, power and cooling
– Centralised heating and cooling load is vital to CHP and RES: there is no CHP without heat load
– The heating and cooling load depends on urban structure: heat density and load level
– DHC (district heating and cooling) enables a variety of different fuels and waste energies to be used for the urban energy supply in a sustainable way.

UP-RES Project Partners

– Finland: (1) Aalto University with various departments and its AALTO PRO Life-long Learning Institute (as leader)
– Germany: (2) District Heating Association - AGFW, Frankfurt, (3) University of Augsburg - UA and (4) Munich University of Technology, Munich – TUM
– UK: (5) Building Research Establishment Ltd. - BRE, Watford
– Spain: (6) Association of Architecture and Sustainability in Catalonia, Barcelona - SaAS
– Hungary: (7) University of Debrecen

Who should attend an UP-RES course?
– Primary audience is planners
– District heating schemes involve many disciplines who liaise with planners: all are invited…
– including Energy and Environmental staff at LAs and RSLs; Architects; Engineers; Developers; all those interested in taking forward district heating with integrated renewables
– CPD accreditation is available for this course.

Principal BRE role
– Development of 3-day course
– Delivery of the 3-day course
– Several courses already delivered: Coventry, Bournemouth, Swansea, Truro
– More courses to follow, 2 in London
UP-RES Course Programme Day 1
- Why do we need a transition to an alternative energy system?
- Environmental impacts of buildings
- EU and UK energy policy drivers and incentives for renewable and GHG mitigation
- Environmental standards in the building sector
- Reducing Heating and Cooling Demands
- Decarbonising energy supply for heating and cooling buildings
- Introduction to District Heating – what is it?
- WORKSHOP - Your experience of DH
- Introduction to District Heating – why to do it? Where to apply? Who has done it?
- Planning for DH across a Local Authority
- WORKSHOP - How to identify potential sites
- Summary of District Energy issues?
- Liaising with developers - Interaction workshop - development of scenario

UP-RES Course Programme Day 2
- Recap on heating cooling demands
- WORKSHOP - Why is your LA interested in developing policy?
- WORKSHOP - What is your LA already doing?
- Sustainable Urban energy Planning – introduction
- Integrating SUEP into planning policy
- Creating an evidence base for SUEP
- Examples of policies in other LAs – London Plan
- Developing energy planning policies
- Assessing the energy aspects of planning applications
- WORKSHOP – worked example
- Enabling low carbon urbanism

UP-RES Course Programme Day 3
- Recap of policy and its importance for development (reminder of SUEP)
- Liaising with developers
- WORKSHOP - Liaising with developers
- Heat sources for District Heating
- Integrating low carbon and renewable into district energy networks
- Examples of how a district energy network can evolve from fossil fuels to renewable energy sources
- Wrap-up, WORKSHOP
- Wrap-up of the three days: further training ideas/trends
- Q&A/Discussion

How to register your interest
- There will be 2 events held in London…
- As well as elsewhere across the UK
- There will be one event at BRE November 5 – 7
- Details and registration at www.bre.co.uk/upres
- Leave your business card with me
- Email me at wiltshire@bre.co.uk