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)

– 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

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

Why urban planning benefits from district heating and renewables
– 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.

Who should attend an UP-RES course?
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
- Decarbonizing 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 for new build developers – what is needed?
- 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 policy 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 heat sources and renewable into district energy networks
- Examples of how a district energy network can evolve from fossil fuels to renewable energy sources
- FINAL WORKSHOP
- Wrap up of the three days: further training ideas/needs
- 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