

bre Urban Planners with Renewable Energy Skills UP-RES

UP-RES Training Courses for Planners

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Part of the BRE Trust

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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

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Urban Planners – Renewable Energy Skills (UP-RES)

- 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.

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Principal BRE role

- Development and delivery of short courses
- Primary target audience is planners
- Developed as a 3-day course, but following feedback now a 2-day course
- Further adaptation has led to inclusion of DECC's new heat map.

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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.

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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
- For future courses see BRE website.

UP-RES Course Programme Day 1

- Energy efficiency: global perspective
- Environmental impact of buildings
- Why do we need energy in buildings; reducing demand
- EU and UK energy policy drivers
- Decarbonising energy supply for heating and cooling buildings
- Q&A / Discussion
- Introduction to District Heating (DH)
- Your experience of DH
- Why to do it/where to apply it/who has done it?
- DECC Heat Mapping Tool Training Session
- Using the Heat Mapping Tool in your area
- Planning for DH for new build developments
- Planning for DH across a Local Authority

UP-RES Course Programme Day 2

- Recap on heating cooling demands
- Why is your LA interested in developing policy ?
- What is your LA already doing?
- Sustainable Urban Energy Planning (SUEP) – an introduction
- Integrating SUEP into planning policy
- Case studies and examples of SUEP policies
- Creating an evidence base for SUEP
- External speaker: characterising areas; case studies
- Developing energy planning policies
- Assessing the energy aspect of planning applications
- WORKSHOP – Assessing character area, understanding heat loads and anchor loads in existing and new build developments.

How to register your interest

- Future events across the UK
- Details and registration at www.bre.co.uk/upres
- Leave your business card with me
- Email me at wiltshirer@bre.co.uk