

Workshop Title: *Sustainable development of districts*

Brief description:

Cost-effective, energy-efficient and user-oriented low carbon development of new districts and refurbishment of existing district requires tools for assessment of grid connected renewable energy systems. In both cases, the development includes a number of stakeholders and clients for the development. Master plan is one of the key elements enabling the maximal use of renewables in both cases.

Sweco Finland Ltd coordinated European project MODER Mobilization of innovative design tools for refurbishing of buildings at district level develops processes, business models and tools for the development at district level. The development of an existing district is a multi-stakeholder and multi-client task requiring tools for both technical evaluation and understanding the needs of various stakeholders.

A regional planning project in North-East China includes ways and means to adapt to the urbanisation. The population in the planning area is expected to grow from about 1 up to 5,1 million in about 30 years. The demand for new buildings is roughly 300 million m². Carbon free or carbon neutral energy are essential for the development. Energy mapping of the region showed that exclusion of coal from the energy sources is a demanding task without proper analysis tools.

Bismayah New City Project is the first and the biggest city development project throughout the history of Iraq. It is a development project for a city of 600 000 inhabitants in 100 000 housing units to cover the huge demand for housing and services in Iraq. The development includes all infrastructures as well as public facilities such as education, religious, welfare, and commercial facilities. The focus has been in development based on local resources.

Moderators and speakers:

Moderator Jyri Nieminen Sweco Finland Ltd.

Speakers:

Jyri Nieminen, Sweco Finland Ltd.

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