

Applied Energy Summer School (2016) Opti-CE: OPTIMIZATION CLEAN ENERGIES

Applied Energy Innovation Institute (AEii), Ningbo, China, July 25-August 3, 2016

1. OBJECTIVES AND MISSIONS

Applied Energy Summer School (AEss), associated with UNiLAB, a specialized platform to facilitate networking and communications in energy areas and strengthen the multi-disciplinary collaborations, aims to build an academic, professional and persistent community for young scholars and experts by providing training courses, teamwork projects, plant tour opportunities and career development.

The missions of AEss are:

- Co-location fosters collaboration, innovation and multi-disciplinary comprehension through face-to-face communication and training courses
- Collaboration leads to creative integration and system solutions to complex problems by exploring linkages among different energy system components and developing a framework of system integration
- Career development shapes the future of youth with interactive exchange with editors, entrepreneurs, product producers, decision makers and investors

2. SCOPE AND TASKS

The scope for the AEss 2016 is to create a community that uses and develops Optimization Clean Energy Tool Box. Opti-CE is an open source model for optimization, simulation and design of clean energy systems for off-grid and on-grid applications.

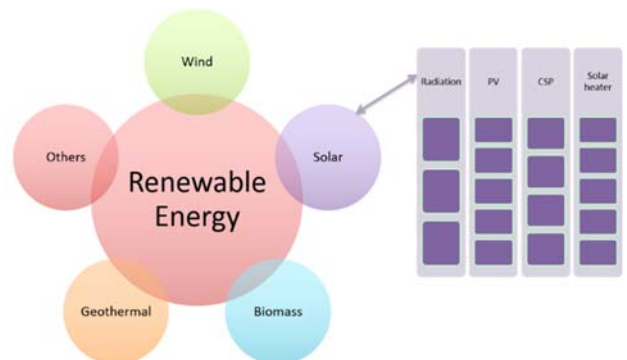
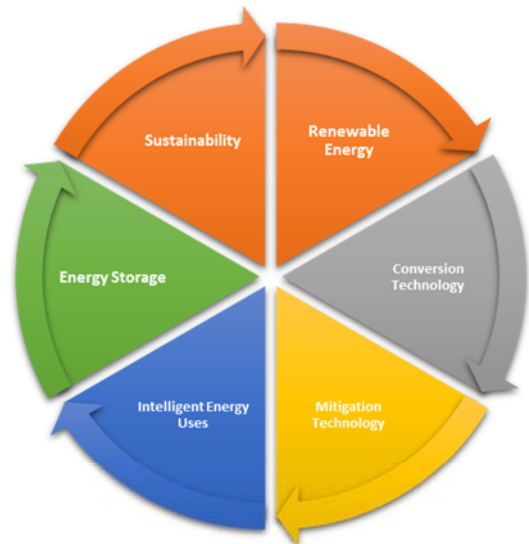
The main objective is to identify some missing power sources and energy storage technologies to be integrated in Opti-CE. The practical task is to develop 4-5 new sub-models to be integrated in the original model to create a more robust and useful tool that can be used in the research and consultancy communities. Particular tasks can be devoted to the development of the already existing sub-models, GIS applications, and interface.

3. PROGRAM DESIGN

Based on Opti-CE, the courses are delivered through a combination of academic lectures, career development module, team-project-design, and on-site tour of renewable pilot projects where students have the opportunity to see working systems that utilize clean energy.



The sessions are designed based on Opti-CE with six modules of applied energy, namely Renewable Energy, Conversion Technologies, Mitigation Technologies, Intelligent Energy Uses, Energy Storage and Sustainability, and divided into four blocks on wind, solar, biomass, geothermal with specialized topics.



4. TARGET AUDIENCE

AEss invites highly motivated international students (undergraduate, postgraduate and doctoral students) and young scientists to participate. Experts from KTH Royal Institute of Technology, well-known international research institutes and the prestigious press like Elsevier and/or Wiley will guide students the training courses, discussions, research and project-design.

5. CONTACTS

Please, apply by e-mail sending your CV. The call for participants will be closed when the maximum number of participants will be reached.

Deadline for application: June 15, 2016

Acceptance: June 20, 2016

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