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Call for PhD Students

Enhancing energy efficiency solutions in the Mediterranean Region

Politecnico di Torino, in partnership with RES4MED¹, IREN and ASJA, is launching the first edition of its Advanced Training Course on Enhancing energy efficiency solutions in the Mediterranean Region.

The course will host more than 40 representatives of electric companies and institutions operating in the renewables sector. In particular, participants will be selected among professionals from Southern and Eastern Mediterranean countries, the Balkan Area, RES4MED stakeholders, and Ph.D. students from the most prestigious Italian universities.

Main goal of the course, based upon a week of lectures at the Politecnico di Torino, industrial site visits and high level social events, is to create a network of experts in the Mediterranean region. It will offer an occasion for professional enhancement and dialogue, dedicated to high profile middle managers and future leaders, selected among the most important players for energy efficiency solution in the Mediterranean area.

The Advanced course will be held from 16th May 2016 to 20th May 2016 in the innovative facilities of the Politecnico di Torino – Campus Lingotto.

The program of the course is outlined in the following preliminary schedule:

Day #1 | May 16th

Morning - Politecnico di Torino

- Welcome and course presentation
- Capturing the multiple benefits of energy efficiency

Afternoon - Politecnico di Torino

- Energy efficiency indicators and business models
- How to approach energy efficiency projects: understanding of the energy consumption patterns

Day #2 | May 17th

Morning - Politecnico di Torino

- Energy Efficiency in Italy: general trends, drivers and barriers
- Energy Efficiency in the Region: general trends, drivers and barriers

Afternoon - Politecnico di Torino

- Energy Efficiency in the buildings and in the Industry Sector: state of the art and relevant solutions
- Solar thermal and solar cooling: a competitive solution to match both Industrial and Public Authorities needs

Day #3 | May 18th

Morning - Politecnico di Torino

¹ RES4MED (Renewable Energy Solutions for the Mediterranean) is a non-profit association of 24 leaders among utilities, TSO, industries, agencies, technical service providers, consultancy and academia, with the mission to support the deployment of renewable energy in the Southern and Eastern Mediterranean Countries.



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- Energy Efficiency seen by a Multiutility Company: a complete overview of different savings, from heating plants to public lighting
 - Esco's experience, know-how sharing from Energy Efficiency Italian industry
 - The retrofit of Turin public lighting: case study analysis
 - Visit to replaced public light area
 - Energy Efficiency in the Public Sector: state of the art of competitive lighting technologies

Afternoon – IREN Torino North Power Plant

- Energy Efficiency through co-generation and district heating and cooling: visit of IREN's cogeneration plants and heat storage systems serving the biggest Italian district heating network (
- Innovative projects in energy efficiency: from IoT to user engagement

Day #4 | May 19th

Morning - Asja Headquarter

- Companies presentations, mCHP history and modern applications, market potential, technical presentations and business cases
- Totem Energy production plant visit

Afternoon – Asja and Totem Energy Site Visit

- Swimming pool application visit
- Asja landfill biogas CHP and PV plant visit

Day #5 | May 20th

Morning - Politecnico di Torino

- Cluster Smart Communities Tech
- ICT in the energy management

Wrap up and conclusions

Upon completion of the course, a certificate of participation will be issued, along with the declaration of the total amount of lecture hours and conversion in ETCS.

PhD Students interest in the participation, can apply sending by email the following documents:

- Motivation Letter
- Curriculum Study

to the attention of Mariapia Martino mariapia.martino@polito.it.

A board composed by Politecnico di Torino, Iren and Asja will evaluate the candidatures and will publish on the Politecnico di Torino – PhD School the ranking of accepted students. The selected students will be contacted by email to complete the registration procedure.

The cost for the participation is 150 Euro (VAT included), payable by bank transfer to RES4MED, who will issue a regular receipt for the payment. The registration fee included:

- Access to all lecturers and site visits;
- Advanced Training Course Material;
- Lunches and two coffee breaks per day, during the whole Advanced Training Course period;
- Free internet access;

The banking coordinates will be provided following the acceptance to the course.