



## Advanced Training Course

*"Integration of renewable energy solutions in the Mediterranean electricity markets"*

23/11/2015 - 04/12/2015  
2<sup>nd</sup> Edition

### Mon 23 Nov

9:15 - 18:00  
Building 25 - Politecnico di Milano  
Campus Bovisa

#### Morning

#### Welcome and International energy market insights

##### Welcome and course presentation

- Vigotti - Secretary General, RES4MED
- Inzoli - Head of Energy Department, Professor, Politecnico di Milano
- Papa - Director, Enel Foundation
- Lenzi - Research and Scientific Manager, MEDREG

##### Participants' presentation

##### General trends in the world energy field and the role of renewables

- Frankl - Head of Renewable Energy Division, International Energy Agency (IEA)

##### The role of renewables in the Mediterranean energy transition

- Frankl - on behalf of Emanuela Menichetti - Director of Renewable Energy Division, Observatoire Méditerranéen de l'Énergie (OME)

#### Afternoon

#### PV

##### PV thin film module manufacturer

- Irace - CEO, 3SUN

##### PV state of art and future developments

- Leva - Professor, Politecnico di Milano

##### Building Integrated Photovoltaics (BIPV)

- Macconi - Partner, Energy Glass



## Tue 24 Nov

9:15 - 18:00  
Building 25 - Politecnico di Milano  
Campus Bovisa

### Morning

### CSP

#### CSP state of art and future developments

Silva - Professor, Politecnico di Milano

#### CSP: market overview and presentation of CSP Manufacturer

Bevilacqua - Business development, AirLight Energy

### Afternoon

### Visit to the Solar Tech Lab and PV industry

#### Visit to Solar Tech Lab - Politecnico di Milano - Bovisa Campus Building 25

Leva - Professor, Politecnico di Milano

#### PV presentation of an innovative crystalline modules' manufacturer

Traverso - Chairman and CEO, MegaCell

#### PV presentation of an inverter manufacturer

Carnelli - Commercial Director, FRIEM

## Wed 25 Nov

9:15 - 18:00  
Building 25 - Politecnico di Milano  
Campus Bovisa

### Morning

### Wind

#### Wind Energy state of art and future developments

Zasso - Professor, Politecnico di Milano

#### Experience of Italian Wind leading company among the entire life cycle of investment

Arienti - Head of Evaluation Initiatives Department, M&A, RE Markets, E2i Energie Speciali

### Afternoon

### Visit at PoliMi Wind Tunnel

#### Presentation of leading Wind Turbine Manufacturer

Prina - Technical Sales in MENA region, Siemens

#### Visit to Politecnico di Milano Wind Tunnel

Zasso - Professor, Politecnico di Milano



## Thu 26 Nov

Private transfer departure from  
Hotel Radisson, via Villapizzone  
24, Milan (08:00 am)

### Morning

### Italgen Hydro Power Plant - guided tour

**Transfer to Concesa (MI)**

**Site guided tour at water intake plant**

Italgen Team

**Transfer to Vaprio d'Adda Hydro Power Plant**

**Site guided tour at Vaprio d'Adda Hydro Power Plant**

Italgen Team

**Transfer to Italcementi i.Lab/ Innovation Centre ITC**

### Afternoon

### i.Lab – Innovation centre - Italcementi

**International investment cases in the Mediterranean: Morocco and Egypt**

De Beni – Managing Director, Italgen

**Visit to i.Lab - Italcementi**

Italcementi Team

## Fri 27 Nov

9:15 – 18:00  
Building 25 – Politecnico di Milano  
Campus Bovisa

### Morning

### Grid operation

**Renewables challenges for a DSO**

Salaris - Head of Network Technology, Enel Distribuzione

**The challenges of TSO to manage the Renewable variability generation**

Bruno - Head of protection, control and system monitoring, TERNA

**Med infrastructure: how to meet the energy potential?**

Vicini - Competence Center Scheduling & Staffing, Centro Elettrotecnico Sperimentale Italiano (CESI)

### Afternoon

### Regulatory framework and social dimensions of large scale projects

**Market rules and renewable sources: an open challenge**

Nodari – Managing Director, Poyry Management Consulting

**Social dimensions of large scale CSP power plants in MENA region**

Jamea - Senior Researcher, Menares



## Mon 30 Nov

9:15 – 18:00  
Building 25 – Politecnico di Milano  
Campus Bovisa

### Morning

### Storage solutions

#### The role of storage in the Utility's business models

Amoroso – Chief Innovation and Sustainability Officer, Enel Green Power

#### Energy storage state of art and future developments

Merlo – Professor, Politecnico di Milano

#### Storage: Market overview and presentation of a leading manufacturer

Scognamiglio – Market and regulatory, NEC Energy Solutions

### Afternoon

### Storage solutions

#### Storage – Italian Pilot projects

Apicella - Innovation Lab and R&D, TERNA

#### Successful mini-grids roll out

Battisti – Head of Business Development Eastern Africa, Enel Green Power

## Tue 01 Dec

Private transfer departure from  
Hotel Radisson, via Villapizzone  
24, Milan (07:30 am)

### Morning

### Biogas

#### Transfer to ASJA headquarter – Rivoli (TO)

#### Company Presentation

Pace – Director Biomass BU, ASJA

#### Biogas basic principles and state of art

Genon - Professor, Politecnico di Torino

#### Biogas from agricultural wastes

Erriquens - BU Biogas & Biomasses, ASJA

### Afternoon

### Biogas

#### Landfill biogas – introduction to the site visit

ASJA team

#### Transfer to Pianezza landfill biogas plant

#### Guided tour of the Pianezza biogas plant including technical explanations

ASJA team



## Wed 02 Dec

9:15 - 18:00

At Aula Fire - PwC Training Center,  
via Guglielmo Silva 36, Milan

### Morning

### Renewable energy investments and financing

#### Participants registration

#### Project financing of renewable energy plants

Togni – Partner, PwC

#### Utilities' strategies in the Renewable Energy Sector

Gilardoni – Professor, Bocconi University

#### Competitive development of PV and Wind: the importance of multi-year pluri-technological plans

Pergamalis – Head Business Development Africa & Middle East, Enel Green Power

### Afternoon

### Renewable energy investments and financing

#### The role of EPC contractor in utility scale projects

Neri - Commercial Director Solar EPC, Terni Energia

#### Renewable energy asset: bank's view

Martorana – Head of Renewables Leased Asset Management Division, UniCredit Leasing

#### The role of technical advisory in project finance structure

Nicora - Lenders' Engineering Division Manager, D'Appolonia

## Thu 03 Dec

Private transfer departure from  
Hotel Radisson, via Villapizzone  
24, Milan (08:30 am)

### Morning

### RSE Headquarter

#### Transfer to RSE laboratories in Milan and registration

#### Welcome key note

#### Preparing the system to supply reliable power in presence of variable energy resources

De Nigris - Director Sustainable Development and Energy Sources, Ricerca Sistema Energetico (RSE)

#### Italian experience in deploying RES

Miraglia - Studies and Statistics Unit, Gestore Servizi Energetici (GSE) - videoconference

#### Visit to RSE laboratories

Ricerca Sistema Energetico (RSE) team

### Afternoon

### CESI Headquarter

#### Welcome and Company presentation

Meola – Sales & Marketing Director, Centro Elettrotecnico Sperimentale Italiano (CESI)

#### Lectures and visit to CESI laboratories

Centro Elettrotecnico Sperimentale Italiano (CESI) team



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**Final Round Table**

December 4<sup>th</sup> 2015

**Bovisa Campus, via Lambruschini 4 A, Building 25, Conference Room**  
Politecnico di Milano

- 09:30**     *Registration and welcome coffee*
- 10:00**     **Welcome**  
**Roberto Vigotti** (Secretary General, RES4MED)
- MED-TSO The multilateral TSO cooperation in the Med region**  
**Carlo Crea** (Vice-President, MedTSO; International Affairs Director, Terna)
- 10:30**     **Closing remarks**  
**Giovanni Azzone** (Rector, Politecnico di Milano)  
**Francesco Venturini** (President, RES4MED; CEO Enel Green Power)
- 10:45**     **A Mediterranean electricity cooperation strategy**  
Moderator: **Emanuela Colombo** (Politecnico di Milano, UNESCO Chair in Energy for Sustainable Development)
- Energy trends scenarios in the Mediterranean region**  
**Houda Ben Jannet Allal** (Director, Observatoire Méditerranéen de l'Énergie – OME)
- Strategic trends and social-economic outcomes in the renewable energy industry**  
**Alessandro Marangoni** (CEO, Althesys)
- 11:50**     **Conclusion**  
**Fabio Inzoli** (Head of Energy Department, Politecnico di Milano)  
**Roberto Vigotti** (Secretary General, RES4MED)

