



Conference on

Sustainable Energy Strategies in Low and Middle-Income Economies

Blending technology, finance and policy beyond 2012

Politecnico di Milano November 22nd-23rd 2012

Aula Magna, Piazza Leonardo da Vinci, 32 - 20133 Milan

Introduction

Energy plays a fundamental role in shaping the human condition and is the key to socio-economic progress. Development of human society has been marked all along history by the ways humans have controlled energy stores and flows that are part of nature. Not surprisingly, the relevance of energy in the international scenario rises constantly and the many interconnections with environment and society are more and more clear. The way most of the energy is currently produced and utilized is unsustainable and threatens the environment on both local and global scales. The lack of access to electricity and the reliance on traditional biomass as main source of energy hinder the path out of poverty for many people in developing countries. The need to increase access to clean, efficient, affordable and reliable modern energy services for balancing the economic, social and environmental dimensions of sustainable choices is nowadays worldwide recognized. Affordable energy services are key elements of economic development and eradication of extreme poverty as called for in the United Nations Millennium Development Goals (MDGs). Building enterprises and creating new jobs, improving health and education, and providing basic needs such as food and water in an economical and sustainable manner require a balanced energy mix that is suited to the economic, social, and resource conditions of individual countries and regions.

Today, the designation of Year 2012 as the international year for Sustainable Energy for All and the initiative of the UN Secretary General, Ban Ki-moon, which sets the goals for improved energy efficiency, doubling the use of renewable energies and universal access to modern energy services by 2030, confirm the commitment of the international community to Energy Access. Available technology options need to be considered according to their applicability to the local context. Energy access has a cost and the initial expenditure on connections or better technologies can be high. There is a large funding gap in providing energy access for the poor which has not been properly addressed by existing financial mechanisms and institutions. Existing policy frameworks and national energy policies often do not respond to the needs and capacities of the poor. All these issues present a number of critical challenges that will remain well beyond 2012 and whose solution requires a comprehensive, balanced and phased approach which takes into account aspects related to technology, financing and investment as well as policy and institutions.

Politecnico di Milano through the UNESCO Chair on Energy for Sustainable Development, UNIDO and ICS UNIDO have promoted this conference. The conference will serve as a high level platform for discussion on sustainable implementation models as part of an integrated approach to global resource management (water, energy, food...): three main interlinked topics related to the role of energy for sustainable growth will be discussed:

- **Which technologies need to be promoted and are appropriate to low and middle-income economies?**
- **Which business models may contribute to the development of new inclusive energy markets?**
- **Which policies and institutions are needed to support new energy systems and promote production and consumption patterns that would foster sustainable energy access?**

The conference is organized in 3 participative sessions introduced by key note speakers with the aim of producing a set of recommendations for further research activities and networking on access to energy services, energy efficiency and renewable energies beyond 2012.

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PROGRAM NOVEMBER 22ND

9.00 - 9.45 Registration

9.45-10.00 Welcome

Emanuela Colombo, Rector's Delegate for Cooperation and Development, Politecnico di Milano

Stefano Bologna, Managing Director, International Centre for Science and High Technology, ICS-UNIDO

10.00-12.00 Introductory Remark (10 min each)

Institutional perspective

Annalidia Pansini, Ministry for the Environment, Land and Sea

Private Sector perspective

Luigi Sanpaolo, Vice-President ENI Sostenibilità

Giulio lo Iacono, Corporate Social Responsibility Manager, ENEL SpA

Nino Frosio, APER-Associazione Produttori Energia da fonti Rinnovabili

Civil society perspective

Claudio Ceravolo, COOPI NGO for LINK2007

Alberto Piatti, AVSI NGO

Serena Arduino, ACRA NGO

12.00-14.00 Light Lunch

14.00-17.00 - Energy and Technology Session

Chair person

Emanuela Colombo, Politecnico di Milano, UNESCO Chair on Energy for Sustainable Development

Key note speeches (25 minutes each)

George Yaw Obeng, Technology Consultancy Centre (TCC), KNUST, Ghana

Frans Gustav Theodor Radloff, Energy Cybernetics, South Africa

Discussant (1 hour)

Emilio Simonet, Technical Director - Renewable World

Mohamed Tahiri, University Chair on Innovation, University of Hassan II Morocco

Mario Motta, Department of Energy - Politecnico di Milano, Res4Med

Guido Zolezzi, UNESCO Chair in Engineering for Human and Sustainable Development, University of Trento

Open discussion (90 minutes)

Facilitator **Riccardo Mereu**, Engineering Without Borders - Rocca Fellow, MIT and Politecnico di Milano

Closure by the Chairperson

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PROGRAM NOVEMBER 23RD**9.00-13.00 – Energy and Economy Session****Chair person**

Stefano Bologna, Managing Director ICS-UNIDO

Key note speeches (25 minutes each):

Koffi Ekouevi, The World Bank Group, Sustainable Energy Department

Adebayo Agbejule, Vaasa University of Applied Sciences Production Engineering

Discussant (1 hour)

Arthur Itotia Njagi, Program Manager for Lighting Africa Program

Alberto Berizzi, Department of Energy, Coordinator of the Ph.D program in Electrical Engineering.

Felice Scalvini, Vice President International Cooperative Alliance

Mariano Morazzo, Head of Socio-Economic Research Area, Enel Foundation

Open discussion (90 minutes)

Facilitator Irene Bengo, – President, Engineering Without Borders

Closure by the Chairperson**13.00-14.30 Light Lunch****14.30-17.30 - Energy and Policy Session****Chairperson**

Diego Masera, Rural and Renewable Energy UNIDO, United Nations Industrial Development Organization

Key note speeches (25 minutes each):

Oswaldo Soliano Pereira, Centro Brasileiro de Energia e Mudança do Clima - CBEM

Discussant (1 hour)

Toby Couture, Director of Renewable Energy, IFOK GmbH

Helene Ahlborg, Chalmers University of Technology Department of Energy and Environment

Massimo Tavoni, Climate Change and Sustainable Development Deputy Coordinator, FEEM – Fondazione ENI Enrico Mattei

Open discussion (90 minutes)

Facilitator Mounir Ghribi, Senior Scientist ICS-UNIDO

Closure by the Chairperson**17.30-18.00 – Closure**

Diego Masera, Rural and Renewable Energy UNIDO, United Nations Industrial Development Organization

Stefano Bologna, Managing Director ICS-UNIDO

Emanuela Colombo, UNESCO Chair Energy for sustainable development, Politecnico di Milano

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A side event will be an exhibition of paintings titled:

"ENERGY - The Hand the Man"
by MINIGALLERY_ASSISI

ATRIO DEL RETTORATO POLITECNICO DI MILANO
Piazza Leonardo Da Vinci 32, Milano

www.minigallery.it

For the first time in Milan, Minigallery_Assisi shows the works of artists who convey "energy" in a special way. The single word "Energy" has been chosen as the title of the exhibition, being both source and object of the artistic gesture, the origin of life itself and of all its implications in the works represented: the nature we see or, perhaps, that we would like to see, the human gesture, gaze animal, the idea, the challenge .. Some of the artists exhibiting are: Mario Consiglio, Luigi Frappi, Bruno Marcelloni, Angelo Zanella, Francesca Capitini, David Pompili, Stefano Frascarelli.

The exhibition will be held in the atrium of the Rector's office. It is going to be open on the 22nd and 23rd of November and can be visited free of charge from 9:30 a.m. to 6:30 p.m.

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