



Editorial

Editorial – WREC-2011

The World Renewable Energy Congress WREC-2011 Linköping, Sweden, May 8th – 13st, 2011

1. Introduction

The World Renewable Energy Congress (WREC) was held on May 8–13, 2011 at Linköping University, Linköping, Sweden. The Congress was hosted by the Division of Energy Systems, Department of Management and Engineering in close cooperation with the World Renewable Energy Congress/Network (WREC/WREN).

The overall theme of the WREC 2011 was “*Future Trends and Applications in Renewable Energy Technologies and Sustainable Development*”, and covered a wide range of topics related to renewable energy technology, energy efficiency, climate change and sustainable energy systems. During WREC 2011 presentations on cutting-edge research and keynote lectures by international experts were complemented by workshops on central subjects, as well as international exhibition and poster display.

WREC 2011 was an international scientific conference for discussion and knowledge exchange for scientists, policy-makers, stockholders, engineers and other specialists with an interest in issues related to renewable energy.

WREC 2011 covered the following topics:

- Climate Change Issues
- Policy Issues
- Energy End-use Efficiency Issues
- Sustainable Cities and Regions
- Industrial Energy Efficiency
- Low-Energy Architecture
- Sustainable Transports
- Photovoltaic Technology
- Solar Thermal Applications
- Wind Energy Applications
- Bio Energy Technology
- Marine and Ocean Technology
- Geothermal Applications
- Hydropower Applications
- European Workshop

The WREC 2011 was a full success and attracted over 600 attendants from more than 70 different countries. The Congress program included 18 plenary keynote talks, one European Workshop, professional excursion tours and over 550 individual presentations

by international contributors, distributed over 130 sessions. More information can be found at www.wrec2011.com.

The proceedings have been divided into 15 volumes, each covering a separate topic. All published papers have undergone peer review by experts within the respective fields.

We are grateful to the authors that agreed to publish their contributions through Linköping University Electronic Press, which makes the contributions freely available. We would also like to express our gratitude to the reviewers for their kind help and devoted work, and to our partners and sponsors.

A selection of papers presented at WREC 2011 has been considered for publication in the *International Journal of Renewable Energy*.

2. Opening address

Professor Bahram Moshfegh (Congress Chairman) emphasized in his opening address about the biggest challenge that mankind has ever faced that is to find opportunities to create a modern, convenient life when facing the escalating threat of global warming. These challenges and opportunities will have significant impacts on our future economy and welfare. He closed his presentation by stating that many little streams together make a big river that is the basis of the world future energy systems. The solution does not exist in a single technology, but in a package of measures. “*We must work and work hard on many fronts simultaneously and I am sure that we will succeed*”.

Our WREN committee looks forward to receiving everyone at WREC 13, 6–11 July, 2014 LONDON – UK.

Sincerely,

The WREC 2011 Organizing Committee
 Professor Bahram Moshfegh, Congress Chairman
 Professor Ali Sayigh, Congress Co-Chairman

Bahram Moshfegh, WREC 2011 Chairman, Chairman of Division of Energy Systems
 Department of Management and Engineering,
 Division of Energy Systems, Linköping University,
 581 83 Linköping, Sweden
 E-mail address: Bahram.moshfegh@liu.se

Available online 1 July 2013