

INNOVATIVE SOLUTIONS FOR ENERGY TRANSITIONS

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1. INTRODUCTION

As a continuation of our prestigious conference series, following the ten successful conferences held in Hong Kong, Singapore, Perugia/Italy, Suzhou/China, Pretoria/South Africa, Taipei/Taiwan, Abu Dhabi/United Arab Emirates, Beijing/China, Cardiff/United Kingdom, and Hong Kong, the 11th International Conference on Applied Energy (ICAE2019) was held in Västerås, Sweden during Aug 12-15, 2019. The theme of ICAE2019 was “Innovative Solutions for Energy Transitions”. ICAE2019, included 118 parallel sessions, 8 workshops and panels, and 1 keynote session.

About 900 participants from over 50 countries attended the event. In total, over 900 papers were accepted, after all submitted manuscripts were peer-reviewed and presented at the conference. In the proceedings, about 900 papers were included, which cover six areas of applied energy:

- Renewable Energy
- Clean Energy Conversion
- Mitigation Technologies and Energy Storage
- Intelligent Energy Systems
- Energy Management, Policy, and Economics (120)
- Energy Sciences

and four special topics:

- Key Technologies of Planning, Operation, and Energy Management
- Architecture & Modeling of Sustainable Power & Energy Systems
- Economic, social, and political challenges of a Low Carbon Society
- Scandinavian Simulation Society

In addition to the proceedings, selected papers were recommended for consideration for inclusion in a special issue to be published in the journal Applied Energy. The recent and previous proceedings of ICAE Conferences were published in Energy Procedia (1-4) and Special Issues were published in Applied Energy and other journals (5-17).

The host of ICAE2019, Mälardalen University, Sweden, is specially acknowledged for her excellent organization of the conference. We would also like to thank the co-organizers and sponsors, including the Applied Energy Innovation Institute, Mälardalen University and Future Energy Center, Elsevier, Scandinavian Simulation Society, CSEE Journal of Power and Energy Systems, and UNILAB for their generous support. Thanks also go to all the authors and participants for their contributions to ICAE2019 and to these proceedings. Session organizers/chairs and reviewers have devoted excellent effort to keep up the quality of the accepted papers to the conference.

Finally, we would like to acknowledge our Scientific Committee members, Organization Committee members, and other colleagues for their significant support of ICAE2019.

We are looking forward to meeting you again at ICAE2020 in Bangkok in 2020!

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