



PREFACE

Indonesia EBTKE CONEX 2013 is an annual event organized by the Directorate General of New and Renewable Energy and Energy Conservation (DG - EBTKE), Ministry of Energy and Mineral Resources of the Republic of Indonesia, in cooperation with Indonesian Renewable Energy Society (IRES/METI) and FABA Consultant. It was held on 21-23 August, 2013 in Jakarta Convention Center (JCC), with the theme “New and Renewable Energy and Energy Conservation: Road to Energy Security and People Welfare”. Indonesia EBTKE CONEX 2013 was officially opened by Prof. Dr. Boediono, Vice President of the Republic of Indonesia. This event was attended by nearly 615 people per day.

Indonesia EBTKE Conex 2013 through conference, exhibition and education aims to:

- Socialize EBTKE to increase public awareness regards to EBTKE
- Facilitate EBTKE as a means of public education.
- Promote EBTKE latest products and technology.
- Build and strengthen collaboration among stakeholders network.
- Increase cooperation among governments, private sectors, investors, academics, and other parties of the institution to achieve the target of EBTKE in Indonesia.
- Stimulate growth of new entrepreneur to EBTKE as a sector, also increase the number and capacity of EBTKE projects significantly in the near future.

The conference presented papers form 66 invited speakers consisted of International and Indonesian scientist, technologists, researchers, academicians, government officials, practitioners and private sectors. The exhibition displayed and demonstrated various technologist on EBTKE from 55 number of booth for workshop, located at the Jakarta Convention Center Hall B of 3,000 meter². While the education was carried out in three ways, i.e.:

- **Training on new and renewable energy and energy conservation**, include biogas, biomass energy, solar energy / photovoltaic, mini and small hydropower, were implemented by GIZ-Indonesia, International Biogas and Bio Energy Centre of Competence (IBBK) - Germany , USAID Indonesia Clean Energy Development (ICED Project); and the energy efficiency by the United Kingdom Climate Change Unit (UKCCU).
- **Essay contest** on new energy, renewable energy and energy conservation, was followed by junior high school students, senior high school, and under graduate student. The competition presented 197 title of the essay.
- **Scientific poster competition** on the new energy, renewable, and energy conservation were followed by a graduate student, researchers, lecturers / academicians, technologists, activists and new energy, renewable, and energy conservation. The competition was followed by 71 posters.

Call of papers was also conducted by Indonesia EBTKE – CONEX 2013, to acquire technical papers. This activity was able to collect 114 extended abstracts and following a thorough peer review process, 76 manuscripts were selected to be presented in Indonesia EBTKE CONEX 2013. After selection and review by the scientific committee, 25 selected manuscripts were chosen for publication in KnE Energy Volume 1 – 2015.

We would like to thank to all authors and reviewer for their high quality contributions and to all participants/visitors. Also many thanks to committees for their dedicated support throughout the Indonesia EBTKE CONEX 2013. Special thanks to Knowledge E Digital Libraries for publish on-line the 25 manuscripts on KnE Energy, Volume 1 - 2015

Finally, we hope Indonesia EBTKE CONEX 2013 can provide an interesting program and serve as an excellent forum for innovative and technical discussion. We look forward to seeing you all in the next Indonesia EBTKE CONEX 2014.

Sincerely yours,

Jakarta , Indonesia , 21th August 2013

Indonesia EBTKE - CONEX 2013

Chairman of Organizing Committee

Fazil E. Alfitri