**Report of 2nd International Conference on Energy Systems for Sustainable Development (ESSD 2018)**

The Department of Chemical Engineering, COMSATS Institute of Information Technology (CIIT), Lahore organized the 2nd International Conference on Energy Systems for Sustainable Development (ESSD 2018) at CIIT, Lahore on February 21-23, 2018. It was a unique scientific meeting attended by national and international experts who discussed energy planning, energy saving, energy technological developments as well as on their increasing practical interest and real applications.

The technical program of ESSD comprised of plenary, keynotes, invited lectures, oral sessions and poster presentations. Prof. Dr. Ing. Martin Kaltschmitt, Head of the Institute of Environmental Technology and Energy Economics at Hamburg, Germany graced the occasion as Chief guest, while Prof. Dr. Zianuddin Abdul Manan, Deputy Vice Chancellor of UTM, Malaysia was the guest of honor. Prof. Martin delivered a plenary talk on, “Renewables within the German Electricity Supply System Status, Experiences, Lessons Learned, and Actions to be taken”. Talk was followed by brain storming session to discuss the possibilities of renewables (solar and wind) integration in Pakistan energy mix. Prof. Zain’s talk was exclusively planned to discuss the role of universities to in, “Driving Reforms and Innovation in Energy Sustainability via a University Living Lab”. Dr. Ahmad Naim, Institute of Chemical and Bio-Engineering Technology, UKM shared Malaysia’s experience on using palm oil biomass in energy generation. In last plenary, Prof. Dr. M. Asif, Glasgow Caledonian University, UK reveal the facts for failure of solar and wind projects in Pakistan and proposed solutions.

The national key note and invited speakers comprised of experts from various Universities of Pakistan including Punjab University, UET Peshawar, DUET Karachi, BUITEMS Quetta, and CIIT, Wah. A represented from Pakistan Agricultural Research Council also delivered an invited talk.

Overall the conference program comprised of five (5) plenary sessions, six (6) invited talks, thirty six (36) oral presentations. Contributions were solicited in following tracks:

* [Power & Energy Systems](http://lahore.comsats.edu.pk/essd2017/Theme.aspx#Track-1)
* [Energy, Environment & Sustainable Development](http://lahore.comsats.edu.pk/essd2017/Theme.aspx#Track-2)
* [Energy Management](http://lahore.comsats.edu.pk/essd2017/Theme.aspx#Track-3)

In addition a poster session was also held in parallel to the oral session. In total, thirty six (36) posters were presented by various participants in the poster session.

The conference resulted in bringing together chemical engineering professionals from both academia and industry. It provided an excellent platform for idea sharing and future collaborations both at student-student and department-department level. During round table discussion Dr. Asim Laeeq Khan, and Dr. Muhammad Yasin from Department of Chemical Engineering, COMSATS Lahore and representative from UTM, UKM, and TUH agreed on writing joint proposals, co-supervision and exchange of BS, MS and PhD students. International experts thanked Dr. Yasin and Department of Chemical Engineering for the invitation, and invited Dr. Asim Laeeq Khan, and Dr. Muhammad Yasin to their institutes to for further deliberation to realize future collaboration.