Overview:
Renewable energy sources are expected to provide 30–40% of the world’s primary energy in 2050. These will play a critical role in achieving the United Nations Framework Convention on Climate change targets, COP 26, and UN Sustainable Development Goals. A key element for attaining these is capacity building in renewable energy technologies. The main objective of this international conference on capacity building in the renewable energy sector is to disseminate knowledge in the area of novel renewable energy, research, technologies and policies. The conference will also serve as a platform for knowledge transfer and capacity building in the vocational and higher education sector of developing countries. Within the global context, there is limited platform available for enhancing the knowledge exchange and training facilities in targeting both vocational and higher education sector in the area of renewable energy technologies. The International conference on capacity building of the Renewable Energy Sector (IRES) is expected to provide a future global network in developing the RE sector’s future skill mix.

The conference is initiated under the project “Training Hub for Renewable Energy Technologies in Sri Lanka-THREE LANKA”, which is funded under the Erasmus+, capacity building for higher education sector. The overall aim of the Three-Lanka project is to develop the required skill levels in Sri Lanka for sustainable development in RE sector by encouraging successful knowledge exchange with EU universities.

For more information please go to: https://threelanka.com/

TOPICS: Three-Lanka 2022 topics include (but are not limited to):

1. Policy: Renewable Energy Technology Roadmap; R&D; Finance; Supply Chain; Marketing
2. Advanced Power Systems: Distributed Energy Resources; Smart Grid; Micro-grid; Power Electronic Convertors
3. Control: Smart Electrical Energy Metering; Fault Tolerated Control Systems; Demand/Power Control
4. Wind Energy: Wind Turbine Load and Power Control; Offshore Wind; Floating Wind Turbines
5. Distributed Hybrid Renewable Energy Systems: On-grid and standalone Hybrid System; Power/Demand Management Systems; Resource Modelling; Design and Size Optimisation
6. Solar Thermal and Geothermal: Solar thermal collectors; Solar Heat Pump; Combined Heat/Power; Geothermal Heat Pump; Geothermal Direct Use
8. Energy Storage: High voltage batteries; Battery charge balancing and cooling; Charge/energy management; Ultra batteries; Thermal, unconventional and Hybrid energy storage systems
9. Social Dimensions of Engineering and Education: Higher education; Life-long learning; Prospects in green job opportunities; capacity building
10. Biomass: Biofuel; Biomaterials; Biomass Gasification; Biomass heating systems

PAPER SUBMISSION
Submission: Papers should be submitted online to: faheem.a.malik@northumbria.ac.uk
Format: Full papers should be submitted in standard IEEE double-column format for conferences and not exceed 6 pages.

REGISTRATION FEES (HYBRID MODE)
Registration fees – attendance at the venue

<table>
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<tr>
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* Full registration includes up to 2 papers (paper length is 6 pages). Each accepted paper must be presented by one of the authors.
Gala dinner 35 Euros.

Registration fees – online attendance

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PUBLICATION: ABSTRACTING AND INDEXING
Registered and presented papers will be published in proceedings that will be indexed on IEEE Xplore.