



European Association for the Development of Renewable Energies,
Environment and Power Quality

INTERNATIONAL CONFERENCE ON RENEWABLE ENERGIES AND POWER QUALITY (ICREPQ'12)

Santiago de Compostela
28-30 March 2012

Communications

STRUCTURE

The "*International Conference on Renewable Energy and Power Quality (ICREPQ'12)*" will be structured in:

-Plenary Sessions: In an auditorium for all the participants. **-Invited Papers:** Simultaneously in two rooms. **-Oral Sessions:** Renewable Energy and Power Quality simultaneously in two rooms. **-Posters Sessions:** In 45-minute periods during the coffee breaks.

CONFERENCE LANGUAGE

All digests, summaries of the papers and full paper must be written in English. All presentations and roundtable discussions will be conducted in English.

DIGESTS

Those interested in presented an original unpublished paper should send to the International Secretariat, **before October 30, 2011** and via e-mail, your digests of a minimum of two A4 double columns pages, or a provisional full paper of a maximum of six pages written in English to allow a review by international specialists. Please submit your digests in Adobe Acrobat (.pdf) or MS Word (.doc) with the title of the paper, authors, your complete contact information and electronic address, five key words, interest of the work, objectives, main contributions and the four most important references, at one of the following electronic address: donsion@uvigo.es

The digests should be produced according to the same instructions that for the full papers then, please, use the ICREPQ-Template like guideline. The papers will be accepted based on the digest or full paper submitted which will be evaluated by the International Program Committee using the Evaluation Form.

FULL PAPERS

Authors of accepted digests will be requested to submit the full papers for inclusion in the International Conference on Renewable Energies and Power Quality CD Rom. The full papers, registration and full payment, are due **before January 20, 2012**.

Please, explain clearly the nature of the problem, previous work, purpose and contribution of the paper, conclusions and references.

The full papers should not exceed six double column A4 (21x29.7 cm) pages (from 4 minimum to 6 maximum) including figures, tables and diagrams. You can send us the full papers in Adobe Acrobat (.pdf) or MS Word (.doc) at one of the following electronic address: donsion@uvigo.es

If you have sent for the ICREPQ'12 a provisional full paper and this one is accepted by the International Program Committee (IPC) members, in a peer review, you must send us the definitive one, or a message saying that we can consider the provisional full paper like a definitive one.

Each author can present in the ICREPQ conference a maximum of three papers and it's important that you say us the preferences of your papers presentation (oral or poster) when you sent us the full papers .

Please carefully read and follow the ICREPQ-Template to ensure a uniform quality and appearance of all contributions. Please include also the table of the top of the first page in which we have included the title, place and dates of the conference.

**Renewable Energy & Power Quality Journal, No.10, 25th
April 2012**

PAPERS

PAGES:	0 --- 1 --- 2 --- 3 --- 4 --- 5 --- 6 --- 7 --- 8 --- 9 --- 10 --- 11 --- 12 --- 13 --- 14
701	Energy production estimating of photovoltaic systems Gábor Ádám, Kristóf Baksai-Szabó, Péter Kiss Department of Electrical Engineering, Budapest University of Technology and Economics. Hungary
702	Design and Analysis of HT-PEMFC Systems with Different Fuel Processors for Stationary Applications S. Authayanun(1), M. Mamlouk(2), K. Scott(2), A. Arpornwichanop(1) 1. Department of Chemical Engineering, Faculty of Engineering, Chulalongkorn University, Bangkok. Thailand 2. School of Chemical Engineering and Advanced Materials (CEAM), Newcastle University. United Kingdom
703	Impact of Compact Fluorescent Lamps on the Excessive Transmission Line Losses K. Deželak, P. Sukič G. Štumberger University of Maribor. Faculty of Electrical Engineering and Computer Science, Maribor. Slovenia
704	Hybrid solution for photovoltaic and photothermal conversion K. Znajdek, M. Sibiński Department of Semiconductor and Optoelectronic Devices, Technical University of Lodz. Poland
705	Practical Aspects of Performance Tests on Power Quality Analyzers J. R. Macedo Jr., I. N. Gondim, J. A. F. Barbosa Jr., C. E. Tavares, A. J. P. Rosentino Jr. Faculty of Electrical Engineering UFU, Federal University of Uberlândia. Brazil
709	Carbon Emission Comparison between Natural Gas and Electric Resistance for Water Heating Gabriel Cury Martins de Oliveira(1), Ricardo Abranches Felix Cardoso Junior(2) 1. Environmental Engineer , Lagoa – Macaé/RJ. Brazil 2. Agricultural and Environmental Engineering Department, Universidade Federal Fluminense (UFF). São Domingos-Niterói/RJ. Brazil
710	Decision Support in the Investment Analysis on Efficient and Sustainable Electrical Equipment J.A. Lobão(1), T. Devezas(2), J.P.S. Catalão(2) 1. Polytechnic Institute of Guarda. Portugal 2. University of Beira Interior and CAST, Covilhã. Portugal
712	Inertia and Governor Ramp Rate Constrained Economic Dispatch to Assess Primary Frequency Response Adequacy Hector Chavez, Ross Baldick Department of Electrical and Computer Engineering.The University of Texas at Austin.USA
713	A New Control Method for Operation of D-STATCOM Under the Unbalanced Conditions H. Molavi, M.M. Ardehali, G. B. Gharehpetian, M. J. Sanjari, E. Ebrahimi Department of Electrical Engineering, Amirkabir University of Technology, Tehran. Iran
714	Assessment and modelling of the waste heat availability from gas turbine based CHP systems for ORC system E. Firdaus(1), K. Saaed(1), D. Bryant(2), M. Jones(1), S. Biggs (3), B. Bahawodin(1) 1. Computing Engineering and Mathematics, University of Brighton. United Kingdom 2. Heatcatcher Ltd, Uckfield. United Kingdom 3. Efficient Air Ltd, Uckfield. United Kingdom
715	Evaluation of two simple wind power forecasting methods applied to a long-term wind record from Scotland W.-G. Früh School of Engineering and Physical Sciences, Heriot-Watt University, Edinburgh, Scotland. United Kingdom

716	<p><u>Investigating two configurations of a heat exchanger in an Indirect Heating Integrated Collector Storage Solar Water Heater System (IHICSSWHS)</u> R. Mossad, M. AL-Khaffajy Faculty of Engineering and Surveying, University of Southern Queensland. Australia</p>
718	<p><u>Pre- Feasibility Study Landfill Biogas for Electricity in Colombia</u> Borzychowski Robert(1), Csontos Kinga(1), González María A.(1) Rojas-Solórzano Luis(2) 1. International Masters in Management and Engineering of Environment & Energy (ME3): École des Mines de Nantes; Royal Institute of Technology, Stockholm; Universidad Politécnica de Madrid; Queen's University Belfast; Budapest, University of Technology and Economics 2. Universidad Simón Bolívar, Venezuela</p>
719	<p><u>Solar and wind generation to power medical facilities in Haiti</u> William Hafner-Burton, Peter Nelson, Ahmed EISawy Department of Manufacturing and Industrial Technology, Tennessee Technological UniversityTennessee, USA</p>
720	<p><u>Performance study on solar assisted heat pump water heater using CO2 in a transcritical cycle</u> M. Raisul Islam(1), K. Sumathy(1), J. Gong(1), Samee Ullah Khan(2) 1.- Department of Mechanical Engineering, North Dakota State University, Fargo. USA 2. NDSU-CIIT Green Computing and Connections Laboratory. North Dakota State University.Fargo. USA</p>