



Promoting Renewable
Electricity Generation
in South America

REGSA International Conference 2014

Renewable Energy, Energy Efficiency and Sustainable Development



Florianopolis, Santa Catarina, Brazil, 6 to 8 May 2014



2013-2014
DEUTSCHLAND+BRASILIEN
Wo Ideen sich verbinden
ALEMANHA+BRASIL
Quando ideias se encontram



Hochschule für Angewandte
Wissenschaften Hamburg
Hamburg University of Applied Sciences



UNISUL
UNIVERSIDADE DO SUL DE SANTA CATARINA
Apoiando um futuro sustentável



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1. Background

The access to electrical energy plays a fundamental role in socio-economic development, especially when access to energy is directly linked to the reduction of poverty. The production and use of local renewable energy not only makes an important contribution to local economic development, but also results in many environmental benefits. Across many regions in South America, the lack of rural electrification strongly impedes upon economic expansion. Although most countries in South America have strategies and specific and well-defined plans to enhance the production of renewable energy, their implementation is threatened by a wide range of legal, financial, political and technological problems.

The project “Promoting Renewable Electricity Generation in South America” (REGSA) is an attempt to address this problem. Funded by the European Union’s “Thematic Programme for the Environmental and Sustainable Management of Natural Resources, including Energy”, the REGSA project fosters the promotion of renewable energy in rural electrification, whilst simultaneously facilitating close cooperation between local stakeholders in Brazil, Bolivia and Chile.

Sustainable development is not a fixed harmonious state, but a process of transformation in which existing resources may be used, while also considering the needs of future generations. Sustainable development may be achieved by means of activities that are ecologically sound, economically feasible, socially fair and culturally diversified. The central theme of the conference will be renewable energy, energy efficiency and sustainable development.

2. Aims

The aims of the **REGSA International Conference 2014: Renewable Energy, Energy Efficiency and Sustainable Development** are:

- i. To give universities around the world the opportunity to present their work (curriculum innovation, research, activities, practical projects) on sustainable development, energy efficiency and renewable energy
- ii. To promote the exchange of information, ideas and experiences acquired during the execution of projects from successful initiatives and good practices in renewable energy generation and use, especially in rural areas
- iii. To discuss methodological approaches and projects which aim to integrate the issue of sustainable and renewable energy in communities and rural areas, support projects and implement plans of action on renewable energy
- iv. To highlight the importance of innovation in the generation of technologies and in the promotion of sustainable development

Last but not least, a further aim of the event will be to document and disseminate the experiences available today. To this purpose, a book will be produced which features selected papers presented at the conference. The acceptance of papers is subject to peer-review, and authors are requested to make sure their manuscripts are of the highest international quality.



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3. Profile of the participants

- Teaching staff at institutes of higher education
- Management staff of universities
- Researchers
- Students
- Project officers and consultants
- Local authorities and government members
- Members of NGOs

Members of the public are also welcome to attend the event.

4. Conference structure:

The structure of the **REGSA International Conference 2014** will consist of presentations divided into three themes and dealing with issues of strategic value in reviewing the state of policy, legislation, technology transfer for renewable generation, renewable energy and energy efficiency. These are:

Theme 1: Renewable energies, renewable electricity generation and energy efficiency

Theme 2: Sustainable development and the environment

Theme 3: Bioclimatic architecture and environmental technologies

Moreover, one session will be dedicated to the German-Brazilian cooperation in the above fields, as part of the year '2013–2014 Germany + Brazil'.

The official languages of the conference are Portuguese and English.

5. Timetable

The **REGSA International Conference 2014** will be held from 6 to 8 May 2014. The schedule is as follows:

Tuesday, 6 May 2014	Wednesday, 7 May 2014	Thursday, 8 May 2014
7 p.m.: Opening ceremony	Morning: Sessions Afternoon: Sessions Evening: Sessions	Morning: Sessions Afternoon: Sessions and technical visits

6. Deadlines

Deadline for submission of abstracts: 30 September 2013

Deadline for submission of papers: 30 November 2013

Deadline for registrations for authors: 30 November 2013

Deadline for registrations for attendees: 12 April 2014



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7. Registration and conditions of participation

Registration is now open and authors may register until 30 November 2013. As the time for presentations is limited, delegates are advised to register as soon as possible. For those merely wishing to attend the conference, however, the registration period will remain open until 12 April 2014.

The organisers will notify any interested delegates or organisation should there be any time restrictions for presentations. Registered delegates will then receive further information on the preparations for the event. The decision as to which papers will be accepted for presentation will be taken by the International Scientific Committee, upon consultation with the organising committee.

Participants registering for the event do so under the condition that they will cover their own travel, accommodation and any incidental costs (e.g. visa fees) related to their trip to Brazil. **The organisers are unable to pay any travel or accommodation costs of any kind.**

Please register online: <http://www.regsa-project.eu/en/international-conference-2014.html>

8. Organising institutions

Universidade do Sul de Santa Catarina (Unisul)
REGSA Project
GIPART-Unisul
Universidad de Chile
Universidad Católica Boliviana "San Pablo"
Hamburg University of Applied Sciences

International scientific committee

Joint Chairmanship

Prof. Dr José Baltazar Salgueirinho Osório de Andrade Guerra, REGSA, Unisul, Brazil
Prof. Dr Luciano Dutra, REGSA, Unisul, Brazil
Prof. Dr Walter Leal, REGSA, Hamburg University of Applied Sciences, Germany
Prof. Dr Rogério Costa SPI, Unisul, Brazil

Members

Prof. Dr Javier Aliaga, Catholic University of Bolivia, Bolivia
Prof. Dr Adriano Ciani, University of Perugia, Italy
Prof. Dr Luis Vargas, University of Chile, Chile
Prof. Luis Velazquez, University of Sonora, Mexico
Prof. Dr Youssef Ahmad Youssef, Humber Institute of Technology and Advanced Learning, School of Business, Canada
Prof. David Chavez, Catholic University of Peru, Peru
Prof. Dr Mauri Heerd, Unisul, Brazil
Prof. Nilzo Ivo Ladwig, Universidade do Extremo Sul Catarinense, UNAHCE, Brazil



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Prof. Jacir Leonir Casagrande, Unisul, Brazil
Prof. Dr Ana Regina Dutra, Unisul, Brazil
Prof. Dr Anelise Vieira Cubas, Unisul, Brazil
Prof. Dr Elisa Helena Siegel Moecke, Unisul, Brazil
Prof. Dr Rafael Faraco, Unisul, Brazil
Prof. Dr. Clara Pardo, University of Bogota, Colombia
Prof. Dr Ronald Wennersten, Institute of Thermal Science and Technology
Shandong University, China
Prof. Dr Zhihua Zhang, Beijing Normal University, China

Organisers

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Prof. Dr Luciano Dutra, REGSA, Unisul, Brazil
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Prof. Frederico Padre Cardoso, Unisul, Brazil
MSc. Julia Gottwald, REGSA, Hamburg University of Applied Sciences, Germany
MSc. Sílvia Back, Unisul, Brazil
MSc. Suely Ferraz de Andrade, REGSA, Unisul, Brazil
BSc. Norma Camisão Schwinden, REGSA, Unisul, Brazil
Dipl.-Biol. Veronika Schulte, REGSA, Hamburg University of Applied Sciences, Germany
Msc. Virgínia Lopes Rosa, Unisul, Brazil
Msc. Zacaria Alexandre Nassar, Unisul, Brazil

9. Further information and secretariat

Task Force **REGSA International Conference 2014**

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10. HOW TO SUBMIT AN ABSTRACT/ Instructions to authors

The **REGSA International Conference 2014: Renewable Energy, Energy Efficiency and Sustainable Development** is a forum designed to present the technological enhancements and results of research in the field of sustainability, energy and renewable applications. The REGSA International Conference 2014 will unite researchers in renewable energy and sustainability from all over the world.



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Researchers are invited to submit an abstract on the issues within the scope of the conference. An abstract should be no more than 200 words in length, and should contain the title of the paper, the author(s) name(s), institution, rationale and aims of the paper, keywords (up to five) and some of its results. General descriptions of broader contexts should be avoided. Full contact details need to be provided (author's address, affiliation and email address). Abstracts should be written in the third person and not in the first or second person (e.g. I, me, or my paper). Please see page 8 for a sample abstract. Author(s) whose abstracts have been accepted, will receive further details about how to submit their full papers.

Paper themes:

- Renewable electricity generation
- The impact of renewable energy on climate change
- Solar energy
- Wind power energy
- Hydro power energy
- Bioclimatic and green architecture
- Law and environment
- Energy efficiency
- Renewable energy technologies
- Energy management
- Sustainable development
- Bioenergy and biofuels
- Entrepreneurship, social and environmental responsibility

Guidelines for the preparation of the paper

Papers should be in Word format, including figures and tables. Research papers can be up to 4,000 words in length. The layout and style to be followed are below:

Title: 14pt. Times New Roman; bold

Author(s) Name(s): 10 pt.

Address and Affiliation: 10 pt.

Abstract: 12 pt.

Keywords: 10 pt.

Main Text: 12 pt., Spacing Single

Headings: 12pt bold type, not indented.

Subheadings: 12pt bold type, not indented

Paragraphs: new paragraphs are not indented, but are preceded by a line of space.

Figures/tables: Title 9 pt.

Units of measurement: SI system

References: 12 pt; Harvard style

Submission Guidelines:

Both the abstract and full paper should be submitted by email before the aforementioned deadline to: conference2014@regsa-project.eu.



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Sample Abstract

Some developments on education for sustainable development in higher education institutions

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Abstract

The implementation of sustainable development in higher education is a global trend. Yet, the intensity and the depth with which higher education institutions are taking on the challenge of sustainability, significantly differs.

This paper presents a global analysis about how higher education institutions are including sustainability issues in the different areas (e.g. teaching, research, outreach and institutional management) and describes the progress made in this field during the last 10 years. A special emphasis is given to the problems and barriers which prevent developments in respect of the integration of sustainability issues in higher education. Finally, some concrete steps which may be undertaken in order to allow universities to integrate sustainable development in their activities but also in regional development, are outlined. This paper will be useful to anyone interested in the different levels of emphasis given to sustainable development at higher education institutions across the world.