



PROGRAMME



reniSla2014



**THE  
RENEWABLE  
ENERGY  
ISLANDS**

25-26 JUNE 2014, EL HIERRO - SPAIN



© El Hierro BR. Sustainable mobility and electric cars.



© Menorca Biosphere Reserve.

## Paving the way for a renewable energy future

Energy lies at the heart of all human, social, economic and environmental endeavours and is also the main challenge of sustainable development.

On the path towards sustainable energy, some regions and projects have shown that a renewable future is possible. These are the new renewable energy islands that are beginning to emerge the world over.

Today we know that it is possible to move towards energy independence based on renewable sources of energy. To face this great challenge, UNESCO sites like the El Hierro Biosphere Reserve can play a key role by acting as global points of reference as communities run on sustainable energy.

RENISLA2014 will be held to celebrate the inauguration of the “Gorona del Viento” Wind-hydro Power Plant, which will make El Hierro the first energy-isolated territory in the world able to power itself entirely from renewable energy sources.

## RENISLA2014 objectives

The main objective of the RENISLA2014 Forum is to create a space for cooperation and to facilitate the transfer of knowledge, technology and experiences to sites moving towards energy self-sufficiency based on renewables.

In recent years, many places, from remote areas and islands to cities, have been developing innovative initiatives towards this goal that can be shared. What was a dream some years ago, has today become a technologically advanced, socially beneficial, environmentally friendly and economically viable reality.

UNESCO sites are real examples of places of excellence where 100% renewable solutions have been developed with the participation of local communities. The biosphere reserves of El Hierro, Jeju, the Galapagos Islands, Grosses Walsertal, Pellworm, Altaiisky and the Lakshadweep Islands and initiatives at World Heritage sites like Edinburgh and Aldabra Atoll are just some of the many illustrative cases.



© KIER. Jeju 100% RES and smart grid.

RENISLA2014 is one of the actions in partnership with the RENFORUS Initiative (Renewable Energy Futures for UNESCO Sites) initiated by UNESCO and aiming at promoting the use of UNESCO Sites (Biosphere Reserves and World Heritage Sites) as field observatories on the sustainable use of renewable energy sources to mitigate climate change and for enhancing and applying the climate change knowledge base for building green societies.



## RENISLA FORUM in action

- to create a platform where authorities and those responsible for biosphere reserves, world heritage sites and other places of interest can collaborate so as to foster projects related to 100% renewable energy supply;
- to disseminate about the opportunities, advantages and practical applications of new technologies linked to renewable energy in isolated areas;
- to identify 100% RES good practices and projects of reference that can be used as case studies and can be replicated in other UNESCO sites and similar regions that are interested;
- to promote interested associations and agreements with parties like international organisations, the renewable energy industry, NGOs and interested governments to develop 100% RES projects;
- to foster capacity building and awareness about the use and applications of renewable energy systems aimed at local self-sufficiency in insular or isolated communities themselves;
- to promote innovative forms of local sustainable energy governance and ensuring better integration of the same in the natural surroundings as also social and cultural setting;
- to mobilise biosphere reserves as areas of demonstration for the development of self-sufficiency initiatives based on renewable sources while committing to the efficient use of energy.



The 24th Session of the International Coordinating Council of the Man and the Biosphere (MAB) Programme highlighted the key role of the World Network of Island and Coastal Biosphere Reserves (WNICBR) for using biosphere reserves as places for promoting energy efficiency and renewable energy driven development alternatives, and in this way, contributing to climate change mitigation and sustainable development. El Hierro is a member of this network that was founded at the 21st Session of the ICC held at Jeju in 2009 and launched in Minorca island in 2012.

# DAY 1 (25th JUNE) 100% Renewable Energy is a reality today

Registration (9:00\_11:30)

## Día 1.1 – Opening session

(11:30\_13:00)

### WELCOME AND OPENING ADDRESSES

#### Hon. D. Alpidio Armas González

*President of the El Hierro Island Government.*

#### Hon. Francisca Luengo Orol

*Minister of Industry and Commerce,  
Canary Islands Government.*

#### Dr Osman Benchikh

*UNESCO.*

#### Hon. Juan Manuel García Casañas

*Lord Mayor of Valverde.*

#### The Spanish Ministry of Industry

*Energy and Tourism.*

#### Key note

#### Renewable energies in the service of humanity.

#### Dr Osman Benchikh

*UNESCO*

#### Presentation

#### El Hierro, a sustainable and renewable island.

#### Micheel Ángel Acosta Hernández

*Counsellor of Environment, El Hierro Island Govern-  
ment (Cabildo de El Hierro).*

#### Press Point

## Day 1.2 - Session 1

(15:00\_17:00)

### PAVING THE WAY FOR A RENEWABLE ENERGY FUTURE: INSPIRING STORIES I

- Benefits of 100% RE for islands and isolated areas.

© BDCR. Dyfi Biosphere Reserve



- Enabling 100% Renewable Energy supply.
- Success stories from islands.

#### Chair:

#### Dr Miguel Clüsener-Godt

*UNESCO.*

#### Presentaciones:

#### The Wind-Hydro-Pumped Station of El Hierro.

#### Juan Manuel Quintero

*CEO, Gorona del Viento El Hierro.*

#### A Renewable Energy Island in the Baltic Sea.

#### Bertil Klintbom

*Director International Strategies, Region Gotland.*

#### Barriers to the maximum penetration of RES in island electrical systems.

#### Salvador Suárez García

*Head of Renewable Energies Department, Canary  
Islands Technological Institute - ITC.*

#### Menorca biosphere reserve: the way towards energy sustainability

#### Rafael Muñoz Campos

*Waste and Energy Consortium of Menorca.*

#### Increasing renewable energy sources in island power supply: case study Madeira.

#### Jose Manuel Melim Mendes

*Former Director AREAM - Regional Agency for  
Energy and Environment of the Autonomous  
Region of Madeira.*

#### Success stories on sustainable and renewable energies in UNESCO Sites.

#### Cipriano Marín

*RENFORUS – Renewable Energy Futures for  
UNESCO sites.*

#### Discussion:

What are the lessons learnt and  
transferrable experiences?

#### Coffee Break

## Day 1.3 - Session 2

(17:30\_19:30)

### PAVING THE WAY FOR A RENEWABLE ENERGY FUTURE: INSPIRING STORIES II

- Towards 100% RES for regions and cities.
- Success stories from regions and cities.

*Chair:*

**Michel Ángel Acosta Hernández**

*Counsellor of Environment, El Hierro Island  
Government (Cabildo de El Hierro).*

#### 100% Renewable Energy Regions

**Katharina Schenk**

*IdE - Institute decentralised Energy Technologies.*

#### “Luz en Casa” Programme: electrification in remote areas of Mexico and Peru.

**Julio Eisman Valdés**

*Director, ACCIONA Microenergía Foundation.*

#### Edinburgh leading the way towards a low-carbon future.

**Chiara Ronchini**

*World Heritage Site Energy Efficiency Manager,  
Edinburgh World Heritage.*

#### Smart Grids for a new energy model.

**Susana Carillo Aparicio**

*Smart Grid Project Manager, ENDESA.*

#### Faces of Energy: Adaptive design solutions for renewable energies in urban areas.

**Caterina Tiazzoldi**

*STUDIO, Milano.*

#### The largest Abbey of Europe goes to renewable energy.

**Sébastien Dave**

*Secretary General, Fontevraud Abbey at Loire  
Valley World Heritage Site.*

#### Technical solutions to allow high penetration of wind energy in isolated networks.

**Carlos Galván**

*Managing Director, Gridconnect.*

© Richard Baxter, Aldabra Atoll.



*Discussion:*

What are the lessons learnt and transferable experiences?

## DAY 2 (26th JUNE) Building 100% RE Alliances

### Day 2.1 – Session 3

(09:00 \_11:00)

#### ENERGY TRANSITION AND CLIMATE: TOWARDS SUSTAINABLE ENERGY COMMUNITIES

*Temas:*

- Sustainable Energy Governance
- Renewable Energy Ownership: Community renewables.
- Transport, green building and renewable water.
- Smart solutions, storage and smart grids.

*Chair:*

**Gonzalo Piernavieja Izquierdo**

*R&D&I Director, Canary Islands Technological  
Institute – ITC*

#### Transition towards a new Energy Model: is 100% iRES possible.

**Josep Puig i Boix**

*President, Board of Trustees EUROSOLAR  
(European Association for Renewable Energy).*

#### Clearing the way for renewable energy communities.

**Mar Asunción Higuera**

*Head of Climate Change Program, WWF Spain.*

#### Renewable water and opportunities in Africa.

**Antonio Gallardo Campos**

*ERRERB Group, Director of Fuerteventura  
Biosphere Reserve.*

#### Self-sufficiency with renewables and green building

**Guillermo Galván García**

*Technological Institute of Renewable  
Energy - ITER.*

#### Distributed Generation through Renewable Energy: practical applications in Latin America and UNESCO sites.

**Miguel Latorre Zubiri**

*Director of Center for Renewable Energy  
Development (CEDER-CIEMAT).*

#### Sustainable electric mobility.

**Luis Valerio**

*Director of Iberia Renault Electric Vehicle.*

## Electric mobility for a low carbon future

### Jorge Sánchez Cifuentes

Deputy Director of Innovation, ENDESA.

#### Discussion:

Challenges, key enabling factors and barriers.

#### Coffee Break

## Day 2.2 - Session 4

(11:30\_13:45)

### PARTNERSHIPS FOR SUSTAINABLE ENERGY

- Climate protection and renewable energy partnerships.
- Development partners' experiences.
- Biosphere Reserves and MaB Programme / Islands and Coastal Areas.
- RENFORUS - Renewable Energy Futures for UNESCO Sites.

#### Chair:

### Marisa Tejedor Salguero

University of La Laguna. Chairman of the Scientific Committee of the MAB Programme in Spain.

## Biosphere Reserves and the Network of Islands and Coastal Areas

### Miguel Clusener-Godt

Division of Ecological and Earth Sciences. UNESCO MAB Programme

## Rural Electrification and Renewable Energy: a major social, economic and environmental challenge

### Ernesto Macias

President, Alliance for Rural Electrification - ARE

## REN21 Renewables Global Status Report

### Christine Lins

Secretary General, REN 21 - Renewable Energy Policy Network for the 21st Century.

## Promoting sustainable energy development: the GSEP experience.

### Bruno Ménard

The Global Sustainable Electricity Partnership (GSEP).

## The role of the Canary Islands in the European strategy for transferring clean RES technologies to Africa.

### Gonzalo Piernavieja Izquierdo

R&D&I Director, Canary Islands Technological Institute - ITC.

## Financing renewable energy, present and future.

### Jesús Losa

Head Project & Asset Finance, La Caixa.

#### Discussion:

Networking, collaboration, alliance building, knowledge mobilisation and multi-stakeholder dialogue.

## Day 2.3 - Session 5

(15:30\_17:50)

### RENISLA, the way forward

- El Hierro Declaration: 100% Renewable Energy, The Only Way Forward.



© Brian Scannell, Feynan Ecologie - Dana BR.

- RENISLA findings on 100% Renewable Energy Futures.

#### Chair:

### Eduardo Fayos-Solà

President, Ulysses Foundation. Former Executive Secretary, UNWTO

#### Co-chair

### Cipriano Marín

RENFORUS (Renewable Energy Futures for UNESCO Sites)

#### Introduction:

## Rethinking the strategy for access to energy

### Gabriele Cassetti

UNESCO Chair - Energy for Sustainable Development. Department of Energy - Politecnico di Milano.

## The global transition to sustainable 100 percent renewable energy.

### Angelina Galiteva

Founding Board Chair, Renewables 100 Policy Institute

## Towards 100% RES: step by step.

### Manuel Cendagorta Galarza

Director, Technological Institute of Renewable Energy - ITER.

## Islands: lighthouses for the energy transition.

### Emanuele Taibi

The International Renewable Energy Agency (IRENA).

#### Panel debate participants:

### Juan Manuel Quintero

CEO, Gorona del Viento El Hierro.

### Gonzalo Piernavieja Izquierdo

Canary Islands Technological Institute - ITC.

### Gunter Pauli

Founder-Director ZERI Foundation.

### Pedro Ballesteros Torres

European Commission

### Ernesto Macias

Alliance for Rural Electrification - ARE.

### Pepa Mosquera

Renewable Energy Magazine.

**Antonio Gallardo Campos**

*Renewable Energy Working Group BR.*

**Panel Discussion:**

Outline of opportunities for support and engagement.

Quick-fire interventions.

**Coffee Break**

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**Day 2.4 - Closing session**

(18:00)

**WAKE-UP CALL**

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**Hon. Alpidio Armas González**

*President of the El Hierro Island Government.*

**Hon. Francisca Luengo Orol**

*Minister of Industry and Commerce,  
Canary Islands Government.*

**Dr Miguel Clusener-Godt**

*UNESCO.*

**Francisco Cantos Mengs**

*Secretary of Spanish MaB Committee (OAPN).*

**The Spanish Ministry of Industry  
Energy and Tourism.**

*Key note:*

**Rethinking energy production with the  
Blue Economy.**

**Gunter Pauli**

*Founder-Director ZERI Foundation, Creator and  
Designer of The Blue Economy (TBE).*

**The century of local empowerment.**

**Pedro Ballesteros Torres**

*Principal administrator, Directorate General for  
Energy (DG-TREN), European Commission.*



**SUSTAINABLE ENERGY  
WEEK 23-27 JUNE 2014**





## EL HIERRO BIOSPHERE RESERVE



# 100% Renewable Energy The Only Way Forward

International Forum promoted by:



SUSTAINABLE ENERGY  
WEEK 23-27 JUNE 2014

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The Wind-Hydro pumped storage power plant. Wind farm and upper reservoir.