

**WP1: EVENT DESCRIPTION – REGIONAL SEMINAR
Government of Navarra**



Title: "Sustainable development and electricity: the production outlook". RES-e Regions Project.

Place: Bioclimatic Building of CENIFER. Imárcoain (Navarra) Spain.

Date and timetable: Thursday, 22nd March 2007, from 9 to 14.30 h.

Organiser: Department of Industry and Technology, Commerce and Labour.

Participants: 37

Short description: The main objective of the regional seminar has been focused on making known the new developments in Solar Photovoltaic technologies in Navarra, as well as the status of the hydrogen production from wind energy.

Background: the use of renewable energies is still one of the main objectives of the Energy Plan of Navarra because it means a reduction of the energy dependency (nowadays 69% of the electricity consumed in Navarra becomes from renewable energies sources) and a generation engine of direct and indirect employment.

Objective and programme: The regional seminar "Sustainable development and electricity: the production outlook". RES-e Regions Project, has taken place within the framework of a conference aimed at letting the citizens know the different technologies of electricity generation from renewable energies and the promotion of the efficient use of the electricity consumption in the different sectors of the economy. The participants of this seminar have had the opportunity to know the different research projects in photovoltaic solar cells, carried out by the National Renewable Energies Centre (CENER) located in Pamplona, different projects of solar gardens already working and under study and also the advancements reached in components of the photovoltaic generation systems.

Due to the importance of the electricity generation from wind energy in Navarra, the participants also got in contact with expert people in this subject, they knew the status of research projects done by the CENER, as for the example the production of hydrogen as an energy vector and the development grade of a show plant of hydrogen production from the electricity generated in one of the first wind farms installed in Navarra.



Professional people of the renewable energy sector, installers, professional associations, engineering companies, electric companies, promoters of photovoltaic parks, universities, trade unions, construction companies, banks, training centres, etc.

The following subjects were discussed in the seminar:

New developments in Solar Photovoltaic:

Ms. Ana Rosa Lagunas (Responsible person of the Photovoltaic Department, CENER)

Mr. Miguel Arrarás (Managing Director of Acciona Solar)

Mr. Juan Carlos Jadraque (Director of the Solar Photovoltaic Area, Ingeteam)

Hydrogen Production from wind energy

Ms. Mónica Aguado (Responsible persona of the Electronic and Energy Accumulation Laboratory – LEYAC, CENER).

Mr. Eugenio Guelbenzu (General Management Assistant of the Biofuels Department, Acciona Energía)

Question time / discussion

Results: the attendants addressed a lot of questions to the speakers. In the first part, about the kind of new photovoltaic modules to be used, different technical and economic parameters of the photovoltaic installations connected to the grid, performance of the components of the installations.

In the second part of the seminar about the current projects carried out by the CENER about hydrogen production, as well as the existing real cases about the utilisation of this energy vector.

List of participants:

COMPANY	PARTICIPANT
AC SOLAR XXI	Ana Isabel Garrues Javier Heredia
BLORALIX RENOVABLES	Jose Felix Arriezu. Antonio Izquierdo.
CENIFER	Begoña Urien Idoia Arteta Tomás Cambra.
COLEGIO DE ARQUIT. TECNICOS Y APAREJADORES	Ignacio Roda Abaurrea
CRAN	Jose Manuel Jiménez
MB SOLAR	Jesús Ezcurra Eduardo Silvestre Luis Torres.
HELIOS (INGENIERIA MEDIOAMBIENTAL)	David Ochoa Pascual
ESTUDIO ARQ. ARAIZ- HUARTE-ROS	Juan Carlos Huarte. Gabriel Ros.
EKA CHEMICALS IBERICA	Jesús Martínez
EMBEGA	Javier Echavarri. Susana Ciordia
FIRA	Alaitz Bengoechea. Iñaki de Miguel.
FLS MILJO	Ole Friis Dela
GAS NATURAL EOLICA	Eduardo Buey
GRUPO ENERPAL	Ignacio Braco.
PARTICULAR	Oscar Hernández Vaquero.
HOSPITAL DE NAVARRA	Xavier ArrazolaZabaleta.
IBERDROLA	Tomás Caballero
LA CAIXA	Carlos Pérez.

MACIAS Y ASOCIADOS	Juan Carlos Macías
MIYABI	Miguel Angel Pascual.
PARQUES SOLARES DE NAVARRA	Fermin Yoldi
PREMIER POWER	Juan Ostiz Zubieta
TUDELA SOLAR	Oscar Blanco Riega. Manuel Olo Elizaga.
UGT	Miguel A. Gil Grocin Santiago Chacón
UNIVERSIDAD DE BURGOS	Santiago Ojeda.
	Juan Ramón Jiménez