



Raising Awareness
on Sustainable Energy through Development of Agro-
Energetic Chain Models

Radar Project Monthly Newsletter

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Edited by The Marches Energy Agency

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the renewable energy field”*

Edited by Development Agency North

Newsletter n° 14/2009



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Servizio Agricoltura,
Forestazione e Pesca



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PUBLICATION

*Vehicle warranties and the
use of biofuels*

*BIOFUEL CITIES – A EUROPEAN
PARTNERSHIP*

15 – 17 November 2009

**2nd International Congress on
Biodiesel: The Science and The
Technologies**

MUNICH - GERMANY



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Dear Reader,

For the second last edition of RADAR Project Newsletter, RADAR partnership is glad to propose you an article on *the successful development of a Sustainable Energy Community* (SEC) of the RADAR pilot area in the Shropshire (UK). The second session is related to the system of incentives for the production of energy from renewable sources in Croatia, with an article titled: "New funding opportunities in Croatia in the renewable energy field", where recently a "Feed in Tariffs" system has been introduced. The last section is dedicated to *biofuel and biodiesel*. In particular, a publication on *vehicle warranties and biofuel* is available, and the "*2nd International Congress on Biodiesel: The Science and The Technologies*" that will be held in Munich, is suggested.

Enjoy your reading!!

Best Wishes from RADAR MANAGEMENT UNIT





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I - Participation and Impacts of the Rural SEC in the RADAR Project

Participation and Impacts of the Rural SEC in the RADAR Project – UK

Edited by



The development of a Sustainable Energy Community (SEC) representative of the RADAR pilot area in the UK started with the hosting of the project study tour in Church Stretton, March 2008. This event attracted Regional and Local stakeholders at every level; from elected members of the local council to council officers to interested members of the public. It also attracted representatives of Regional farming, forestry and academic institutions who later became members of the Board of the SEC through RADAR being a standing item on the pre-existing Bioenergy WM group's agenda. The pilot area had partly been chosen due to the presence of established/emerging voluntary environmental action groups and projects in the three main communities; Much Wenlock, Cleobury Mortimer and Church Stretton, thereby being fertile ground for a project designed to increase the uptake of bio-energy technologies. Church Stretton Climate Care representative Jon Cooke gave an inspirational talk at the RADAR Study Tour first day conference which demonstrated to the partnership that such initiatives in the UK really were supported by passionate local individuals with genuine concerns around climate change; possibly fairly unique within the partnership even amongst countries more advanced in green technology development.

Moreover, Bill Dulley of Cleobury Mortimer Environmental Action Forum and Cleobury Country Ltd gave a detailed presentation on plans for an Anaerobic Digester in the town; which has now been adopted by the UK RADAR project as the subject of its feasibility study. However, a disadvantage of linking the RADAR SEC into existing groups was the need to integrate activity into their existing programmes and this meant that development of the SEC took longer than the RADAR programme's schedule required it to. The disparate nature of these three rural communities also meant that meetings had to be held in each one as volunteers who were already giving up their time anyway were unlikely to travel 20 miles to the neighbouring community to discuss the project. The first SEC meeting at which participants signed up to the RADAR project was held with Sustainable Wenlock, an emerging voluntary action group concerned with climate change (due to the impact of flooding on the town) and peak oil. 18 participants signed up to the project here mainly with an interest in increasing the uptake of burning wood for heat locally. A further meeting was then held with CSCC and the Shropshire Hills Area of Outstanding Natural Beauty (AONB) Farmers Working Group; again mostly interested in bringing undermanaged farm woodland into use for wood fuel



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production.

However, the group where there has been the best progress with is CMEAF (which has had up to 20 members represented at any one meeting and with whom 5 meetings have been held since April 2009 alone!) This is no doubt partly due to the wider community being engaged in 3 years of activity through Shropshire Council's 'Low Carbon Communities' project, in particular its work with 50 businesses in the town that had led to 22 low energy lighting 'makeovers' and 10 significant energy efficiency or renewable energy projects (including an 11kW wind turbine and numerous solar hot water installations) being implemented in the town making a total saving of some 50 tonnes of CO₂ and around £10,000 in energy costs per annum. Representatives of many of these businesses in particular are now heavily involved in taking the RADAR feasibility study forward although this recent activity was actually inspired by a presentation on the town of Gusing in Austria, which is entirely heated and powered by a renewable energy CHP station, and the presence of another local scheme to encourage share offers in significant local renewable energy installations to be issued in order to raise capital and give the community some of the financial benefits of the installation.



Photo: Bill Dullely, founding member of Cleobury Mortimer Environmental Action Forum presents his plans for an AD plant in Cleobury Mortimer to the RADAR partnership and local SEC members.

II – New Funding opportunities on Renewable Energy Use in RADAR Countries

New funding opportunities in Croatia in the renewable energy field



Edited by

Funding opportunities for renewable energy projects in Croatia are made of support instruments enacted in the legal framework, feed-in tariff system, funding from Croatian Environmental Protection and Energy Efficiency Fund, loans from Croatian Bank for Reconstruction and Development, the Third Party Financing through ESCO companies, Public-private partnerships, commercial bank loans and IPARD Programme 2007-2013. In Croatia, renewable energy utilization is described as of national interest in the Energy Act. The Tariff System for the Production of Electricity from Renewable Energy Sources and Cogeneration defines the right of eligible electricity producers to the incentive price (in the form of feed-in tariffs) of electricity paid by for the supply of electricity produced from renewable energy sources and cogeneration for the period of 12 years. Environmental Protection and Energy Efficiency Fund purpose is to ensure additional means for financing of projects in the area of conservation, sustainable utilisation, protection and improvement of environment. Croatian Bank for Reconstruction and Development is offering two loans related to renewable energy sources utilization. The first one is the Loan Programme for the Financing of Projects of Environmental Protection, Energy Efficiency and Renewable Energy

Resources which is designated to units of local and regional self government (municipalities, cities and counties), utility companies and other legal entities or natural persons. In general, bank will finance up to 75% of the estimated investment value, without VAT included with grace period up to 2 years and repayment period up to 12 years, including grace period. Interest rates differ from 4% to 6% p.a. or a 3-month EURIBOR+2% b.p. annually. If the Environmental Protection and Energy Efficiency Fund approves the interest subsidy, the above interest rate shall be reduced by 2%. The second one is the Loan Programme for the Preparation of Renewable Energy Resources Projects which is part of the GEF/IBRD Trust Fund Grant to the Republic of Croatia for the implementation of Renewable Energy Resources Project. Up to 50% of total eligible costs (in general up to USD 150,000) may be financed with a 4% p.a. interest rate. Eligible as final borrowers are utility companies, companies, craftsmen, units of local and regional government and other legal entities.

The Third Party Financing is possibility viable through ESCO companies - a company that develops, executes and finances energy efficiency projects on a commercial basis with repayment through savings. Public-private partnership is new but recognised concept among local authorities and private investors which greatly depends on the stakeholders involved. If general awareness on RES and



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RUE among stakeholders will be increased, this could be the most viable concept for project funding.

Access to capital and financial products of commercial banks is limited but this limitation is overridden by loan programmes of Croatian Bank for Reconstruction and Development.

IPARD Programme 2007-2013 - Agriculture and Rural Development Programme for the Republic of Croatia co-finances investments in construction and/or reconstruction and/or equipment facilities of plants for renewable energy resources usage, like bio diesel, biogas and others.

News and Publications

PUBLICATION

Vehicle warranties and the use of biofuels

BIOFUEL CITIES – A EUROPEAN PARTNERSHIP



This study gives in first hand an overview of vehicles that are commercially available and that have a manufacturers warranty to drive on the biofuels ethanol or biodiesel neat or in different concentrations.

5 % ethanol in gasoline and 5 % biodiesel in diesel is the highest allowed blend today according to valid fuel specification for gasoline EN 228 and diesel oil EN 590. This was also in line with EU's so called Fuel directive, 98/70/EC. However, 27 March 2009 the European Parliament and the Council of the European Union adopted amendments to the directive that, inter alia makes it possible to blend market gasoline with up to 10 % ethanol and market diesel oil with up to 7 % biodiesel. Most likely that will initiate a work in the European Standardization Organization CEN to redraft the gasoline and diesel oil standards to accept up to 10 % ethanol in gasoline and 7 % biodiesel in diesel oil.

To download the whole publication:
<http://www.biofuel-cities.eu>

NEWS

15 – 17 November 2009

2nd International Congress on Biodiesel: The Science and The Technologies

MUNICH - GERMANY

**2nd International Congress on Biodiesel:
The Science and The Technologies**

15-17 November 2009

The Westin Grand München Arabellapark • Munich, Germany



in today's economy, it is important to remain competitive and run your business cost-effectively. This conference will provide key scientific information and insights into future technologies in all of the biodiesel categories. You will have the opportunity to meet influential and important players in the biodiesel industry. You will learn valuable information for the success of your business-a definite return on the investment to attend.

To know more on the Conference:

<http://www.aocs.org/>