



Welcome To The
RENEWABLE ENERGY MARKET PLACE CONFERENCE

Christchurch Civic Offices, Council Chamber

Thursday 20th September, 2012

10am – 2pm

Cllr Ray Nottage, Leader

Cllrs Mrs Margaret Phipps, Environment Portfolio Holder

Rachel Sharpe, Sustainability Management Officer

Christchurch Borough Council is hosting the above Conference to highlight certain renewable energy technologies and associated products and services for the information of those attending. The Council does not endorse or support the commercial product or service of any individual or Company in attendance.



Renewable Energy Market Place Conference

20th September 2012

List of Delegates

Cllr Ray Nottage
Cllr Colin Jamieson
Cllr Mrs Margaret Phipps
Cllr Trevor Watts
Cllr Bernie Davis
Cllr Mrs Myra Mawbey
Cllr Mrs S Derham-Wilkes
Cllr John Lofts
Cllr Nick Geary
Cllr Mrs Lesley Dedman
Cllr Mrs Trish Jamieson
Simon Trueick
Judith Plumley
Keith Mallet
Lindsay Cass
Steve Duckett
Barry Dike
Rachel Sharpe

Steve MacKenzie
Cllr Gary Suttle
Cllr Barry Quinn
Cllr Mrs Gloria Marsh
Diane Bermand

Cllr Elaine Atkinson
Cllr Tony Woodcock
Ian Johns

Leader
Deputy Leader
Environment Portfolio Holder
Economy Portfolio Holder
Community Portfolio Holder
Cllr for Highcliffe
Cllr North Highcliffe and Walkford
Cllr for Highcliffe
Cllr for North Highcliffe and Walkford
Cllr for West Highcliffe
Cllr for West Highcliffe
Community and Planning Policy Manager
Head of Community and Economy
Head of Legal and Democratic Services
Head of Environmental Services
Head of Planning and Health
Private Sector Housing Manager
Sustainability Management Officer

Chief Executive
Leader
Cllr for West Purbeck Ward
Cllr for Swanage North Ward
Neighbourhood Planning Officer

Leader
Cllr for Parkstone
Asset Management and Sustainability Officer

Christchurch Borough Council
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Christchurch and East Dorset Partnership
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Purbeck District Council
Purbeck District Council
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Borough of Poole
Borough of Poole
Borough of Poole

Cllr Christine Ford	Vice Chairman and Chairman Environment Review and Scrutiny Panel	New Forest District Council
Edward Gerry	Planning Policy Officer	New Forest District Council
Emma Waterman	Planning Policy Officer	New Forest District Council
Cllr Robert Gould	Cabinet Member for Environment	Dorset County Council
Don Gobbett	Head of Planning	Dorset County Council
Jon Bird	Energy Efficiency Officer	Dorset County Council
Kate Hall	Sustainable Development Manager	Dorset County Council
Cllr David Smith	Portfolio for Planning and Environment	Bournemouth Borough Council
Cllr Lawrence Williams	Portfolio for Corporate Policy Implementation	Bournemouth Borough Council
Cllr Mark Anderson	Chairman Environment and Transport Scrutiny Panel	Bournemouth Borough Council
Cllr Anniina Davie	Cllr for Winton East	Bournemouth Borough Council
Cllr Barry Goldbart	Cllr for Westbourne and West Cliff	Bournemouth Borough Council
Bill Cotton	Executive Director for Environment & Economy	Bournemouth Borough Council
Mr Neil Short	Environmental Health Project Officer	Bournemouth Borough Council
Cllr Deborah Croney	Deputy Leader	North Dorset District Council
Cllr Michael Roake	Portfolio Holder for Environment and Leisure	North Dorset District Council
Cllr Jane Somper	Ward Member for Abbey	North Dorset District Council
Cllr Mervyn Jeffery	Ward Member for Shaftesbury Christy's	North Dorset District Council
Cllr John Stayt	Ward Member for Portman	North Dorset District Council
Paul McIntosh	Sustainability Officer – Environment	North Dorset District Council
Cllr Jackie Stayt	Town Councillor	Blandford Town Council
Oliver Rendle	Environmental Assessment Officer	West Dorset District and Weymouth & Portland Borough Councils.
Malcolm Burton-Smith	ACRA, Alliance of Christchurch's Residents Association	
Mike Collard	Secretary – Stanpit and Mudeford Residents' Association	
Brian Smith	Highcliffe Residents' Association	
Robert Austin	Highcliffe Residents' Association	
Colin Dewsnap		
Paul Hanson	Chief Executive, Meyrick Estate Management Ltd	
George Meyrick	Meyrick Estate Management Ltd and Managing Director	
	New Forest Energy Ltd	

AGENDA

Renewable Energy Market Place Conference

20 September 2012

Council Chamber, Civic Offices, Christchurch Borough Council

- 10.00 Arrival, registration and coffee.
Opportunity to browse the Renewable Energy Market Place stalls
- 10.50 Introduction--
Cllr Ray Nottage, Leader, Christchurch Borough Council
Cllr Mrs Margaret Phipps, Environment Portfolio Holder, Christchurch Borough Council

Keynote Speakers

- 11.00 **Opportunities and the potential market for solar PV and other domestic scale renewable energy technologies -**
Pete West, Renewable Energy Development Office, Dorset County Council *by 2020!*
- 11.15 **Tidal Energy –**
Poole Tidal Energy Partnership (PTEP)
Paul Cooling, Carbon Reduction Manager, Borough of Poole/PTEP Director
Tilak Ginige, Senior Lecturer in Environmental Law, Bournemouth University
Andy Hadley, Transition Town (Poole)/ PTEP Director
- 11.30 **Energy from Waste –**
Robert Asquith, Planning Director, New Earth Group Ltd
- 11.45 **Biomass and the Renewable Heat Incentive (RHI) -**
Jeremy Hinton, Business Development and Operations Manager, New Forest Energy Ltd
- 12.00 **Deep Geothermal Energy and Ground Source Heat Pumps -**
Guy Macpherson-Grant, Managing Director, EGS Energy Ltd
- 12.15 **The Role of the Local Authority in Enabling Low Carbon Finance – “The Missing Chapter”-**
Christoph Harwood, Partner, Marksman Consulting LLP
- 12.30 Joint Question and Answer Session
- 13.00 Closing Comments –
Cllr Mrs Margaret Phipps, Environment Portfolio Holder, Christchurch Borough Council
Cllr Ray Nottage, Leader, Christchurch Borough Council

Followed by buffet lunch and networking with further opportunity to browse the Renewable Energy Market Place stalls.

- 14.00 Conference close

Market Place Stalls

Solar PV and other domestic scale renewable energy technologies

Pete West, Renewable Energy Development Officer, Dorset County Council

Poole Tidal Energy Partnership

Paul Cooling, Carbon Reduction Manager, Borough of Poole/PTEP Director

Tilak Ginige, Senior Lecturer in Environmental Law, Bournemouth University

Andy Hadley, Transition Town (Poole)/ PTEP Director

Wave Power – The AmpereWave Initiative

Chris Budd

Energy from Waste

Robert Asquith, Planning Director, New Earth Group Ltd

Rachel Surbuts, Communications and Marketing Manager, New Earth Group Ltd

Waste Wood Biomass

Peter Brown, Energy Supply Manager, Eco Sustainable Solutions Ltd

Anaerobic Digestion

Peter Brown, Energy Supply Manager, Eco Sustainable Solutions Ltd

DEAC

Peter Bywater, Senior Project Manager

Theresa McManus, Sustainable Project Manager

The Benefits of Low Carbon District Energy

Peter Hamnett, Emergent Technology Specialist, Cofely District Energy

Biomass from Forestry

Jeremy Hinton, Business Development and Operations Manager, New Forest Energy Ltd

Deep Geothermal Energy and Ground Source Heat Pumps

Guy Macpherson-Grant, Managing Director, EGS Energy Ltd

The Role of the Local Authority in Enabling Low Carbon Finance – “The Missing Chapter”

Christoph Harwood, Partner, Marksman Consulting LLP



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The following information has been provided by our Speakers and Stall Holders:

SOLAR PV -

Pete West, Renewable Energy Development Officer, DCC

Prior to joining the Sustainability Team in Dorset County Council in 2008 Pete West worked for nine years as renewable energy project manager for two not-for-profit energy advice centres/ energy agencies and was also a member of the management board of the International Network for Sustainable Energy, an NGO network based in Denmark.

Opportunities and the potential market for Solar PV and other domestic scale renewable energy technologies appropriate for conurbations, focusing on:

- *PV domestic and strategic*
- *Potential for PV installations in Dorset*
- *Current PV installations in Dorset by District*
- *FIT and subsidies/funding*

TIDAL ENERGY – POOLE TIDAL ENERGY PARTNERSHIP (PTEP) –

**Paul Cooling, Carbon Reduction Manager, Borough of Poole/PTEP Director
Tilak Ginige, Senior Lecturer in Environmental Law, Bournemouth University
Andy Hadley, Transition Town (Poole)/ PTEP Director**

Poole Tidal Energy Partnership aims to harness the power of the tide in Poole Harbour and the spirit of the community in a manner that is economically sustainable, is sensitive to the local environment and contributes to the vision for clean energy. They are keen to work with everyone in the local area to make the most of the natural resources which flow around Poole. They will also highlight the technology of heat exchangers for use with tidal energy.

WAVE POWER -

Chris Budd, The AmpereWave Initiative

AmpereWave are developers of wave and tidal energy systems. The designs offered provide economic alternative energy generation solutions to areas that are not suited to existing technology because of shallow water and/or low flow speeds. Specifically AmpereWave have developed a tidal energy system with a large capture area which is suitable for shallow water and slow flow speeds and is unobtrusive and discrete.

ENERGY FROM WASTE

Robert Asquith, Planning Director, New Earth Group Ltd

NEAT technology utilises household waste that cannot be recycled to generate low-carbon, renewable energy. Advanced thermal treatment of the refuse-derived fuel, in zero and low-oxygen chambers, creates gas that can be used to power a steam turbine or gas engine to generate electricity. Modular units, each generating enough power for around 1,800 homes, provide flexibility and low visual impact, as well as reducing landfill. Efficiency and greenhouse gas effects are substantially better than the alternatives of traditional incineration or landfill.

WASTE WOOD BIOMASS

Peter Brown, Eco Composting Sustainable Solutions Ltd

Biomass is biological material derived from living, or recently living organisms. More commonly this includes wood (either virgin wood or wood waste), energy crops (grown specifically for energy applications) as well as residues from agricultural harvesting. Food waste which can be used in the anaerobic digestion process is also termed biomass. The benefit of Biomass as a fuel as opposed to fossil fuels is one of timescales with Biomass removing carbon from the atmosphere as it grows and then immediately returning the carbon during its burning.

Biomass is therefore largely carbon neutral apart from the energy used in its processing and distribution.

Biomass can be used to either produce heat or to produce a combination of heat and power when used through a Combined Heat and Power (CHP) Generation Plant.

ANAEROBIC DIGESTION

Peter Brown, Eco Composting Sustainable Solutions Ltd

Anaerobic Digestion (AD) is the degradation of organic matter in the absence of oxygen, as opposed to composting which degrades organic matter in the presence of oxygen (aerobic).

Whereas composting produces some carbon dioxide and water vapour which is vented to the atmosphere, anaerobic digestion produces a biogas (methane) which can be collected and used as fuel for a Combined Heat and Power (CHP) Generation Plant.

The organic material remaining after the process can be used as a liquid fertiliser and soil conditioner for agriculture.

DEAC

Peter Bywater, Senior Project Manager

Theresa McManus, Sustainable Project Manager

Renewable energy is a must, but we must not lose sight of good housekeeping and the basics of saving energy and money. It's how we make a difference.

THE BENEFITS OF LOW CARBON DISTRICT ENERGY

Peter Hamnett, Emergent Technology Specialist, Cofely District Energy

District Energy involves the distribution of heat (and sometimes cooling) from a central energy centre to a number of local consumers.

The heat energy can be produced by a range of low-carbon sources, including biomass boilers and combined heat & power (CHP). The networks typically consist of buried pre-insulated pipework, with very low levels of heat loss.

BIOMASS FROM FORESTRY

**Jeremy Hinton, Business Development and Operations Manager,
New Forest Energy Ltd.**

Biomass as a feasible local renewable energy source and unpicking the Renewable Heat Incentive (RHI)"

A brief overview of the basic things to look for when considering a woodchip biomass boiler installation, what the RHI is and how does it work and what possibilities are out there for financing a biomass boiler compared to fossil fuels

DEEP GEOTHERMAL ENERGY AND GROUND SOURCE HEAT PUMPS

Guy Macpherson-Grant, Managing Director, EGS Energy Ltd.,

EGS Energy is a development and consultancy company with unique access to engineered geothermal system technology and know-how and with projects under way in Cornwall and consultancy work worldwide. EGS Energy is leading the development of deep geothermal resources in the UK on a commercial scale.

THE ROLE OF THE LOCAL AUTHORITY IN ENABLING LOW CARBON FINANCE – "THE MISSING CHAPTER"

Christoph Harwood, Marksman Consulting LLP

Christoph Harwood of Marksman Consulting will cover the role of local authorities in attracting finance for local low carbon economies. This is often a vital but missing chapter in local authority low carbon plans and he will explain the range of activities that can help them attract the required funds.

Marksman Consulting is an environmental finance consultancy as has advised a number of local authorities including West Sussex, London, Newcastle and Birmingham on this topic.

Briefing note: Reducing energy demand

Power stations of all kinds have an impact. Reducing energy demand through energy efficiency is the obvious way to reduce the need for power stations.

Energy Efficiency is good for our wallets:

The annual domestic gas and electricity bills for the residents of Bournemouth, Dorset and Poole add up to over £300 million. By insulating our homes and installing more efficient heating, bills and energy use can be cut and comfort improved.

Energy Efficiency is good for our health:

People living in cold poorly insulated homes are more likely to suffer cardiovascular and respiratory problems, and social exclusion.

Energy Efficiency is good for business:

Reducing energy costs improves competitiveness.

Energy Efficiency is good for local government:

Improving private and public sector housing helps meet statutory requirements of the Home Energy Conservation Act and Housing Acts.

Improving energy efficiency of the Council's own estate reduces cost without reducing service quality

Local Authority Energy Efficiency action:

The **Bournemouth, Dorset and Poole Energy Efficiency Strategy** complements the renewable energy strategy. A considerable amount has been achieved since the launch of the strategy in 2009, for example:

- From 2008-2012, over 30,000 homes have had loft insulation installed and a similar number have had cavity wall insulation installed, many using match funding from local authorities in Bournemouth, Dorset, and Poole.
- Funding has been secured from regional, national, and EU government sources for several energy efficiency initiatives.
- Dorset manufacturing businesses can reduce energy use at no cost by taking advantage of the "control your compressors" project managed by Dorset Chamber of Commerce and Industry.

We should not lose sight of the fundamental value of reducing energy consumption and ensure that resources are made available to improve the energy efficiency of our homes.

Jon Bird
Energy Efficiency Development Officer
Dorset County Council
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