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# THE ALTERNATIVE SUSTAINABLE & RENEWABLE ENERGY SUMMIT 2007

**Infrastructure . Finance . Policy . Investment . Demand**

April 23 & 24, 2007, Croke Park Convention Centre, Dublin

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# THE ALTERNATIVE SUSTAINABLE & RENEWABLE ENERGY SUMMIT 2007

- **INFRASTRUCTURE**
- **FINANCE**
- **POLICY**
- **INVESTMENT**
- **DEMAND**

**‘The clean energy business is turning into the next big investment boom’**

(The Economist, November 2006)

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## INTRODUCTION

2007 is likely to become a boom year for alternative energy. The rising popularity of alternative energy technologies will attract venture capital funding, legislative incentives and support, and growing investment from the business sector. At the Alternative, Sustainable & Renewable Energy Summit, we will provide delegates with a unique opportunity to receive a thorough and up-to-date picture on current and future developments within the Alternative/Renewable energy industry, as well as a chance to network and do business. Alternative Energy 2007 is a conference designed with premium content aimed at providing the latest information on all aspects of alternative energy with **particular focus on the financing, planning and regulation of new projects.**

The Sunday Business Post and iQuest would like to thank our main sponsors – Accenture and RPS Group for their contribution to, and support of, this year’s event.

## CONFERENCE SUMMARY

**Topics at the Alternative, Renewable & Sustainable Energy Summit include:**

- Developing competitive markets to provide the correct price signals for investment in alternative energy
- Renewable sources: The perspective, the market, the instruments
- Spatial planning & renewable energy plans
- Renewable energy technology trends
- Energy efficiency programmes and strategies
- Financial planning and investment
- Capital markets perspective on renewables
- Private equity and venture capital
- View from Europe - strategies for sustainable, competitive and secure energy
- Balancing Ireland’s energy needs
- The nuclear debate
- Who will profit from the new alternative economy?
- Future trends and scenarios on global, European, national and regional levels

## WHO SHOULD ATTEND?

**The event that will bring together all stakeholders from the energy value chain including: regulators, producers, providers, technology providers, project consultants, industrial end-users and investors**

- Managing directors / chief executives
- Large users of energy
- Energy specialists
- Project financiers / investors / venture capitalists
- Environmental officers
- Public sectors managers / technical officers
- Environmental engineers
- Construction industry managers
- Regulatory bodies
- Energy management policy makers
- Asset managers / analysts
- Researchers / scientists

## KEYNOTE SPEAKERS



### **Oliver Schäfer, Policy Director of the EREC (European Renewable Energy Council)**

Oliver started his career in Brussels as energy policy adviser to Mechtilde Rothe, MEP. He was responsible for energy policy and related matters. As such, he was following the legislative dossiers in this sector and he specialised in renewable energy. During the first years in Brussels he was mainly focused and involved in the discussion about the directive for the "promotion of electricity from renewable energy sources". His activities include research, advising and amending on legislative proposals, as well as dealing with lobby groups and industry. In 2003, he joined the European Renewable Energy Council as policy director and is leading the policy department since then. Oliver has published many articles and contributed to books; among the latest is the "Energy (R)evolution scenario – a sustainable world energy outlook". Before going to Brussels, he worked for a major political party in Germany.



### **Padraig McManus, Chief Executive, ESB**

Padraig McManus was appointed Chief Executive and member of the board of ESB in July, 2002. He joined ESB in 1973 and spent 15 years on the company's international businesses, later becoming managing director of ESB International and ESB commercial director. He is a board member of the Irish Management Institute, vice chairperson of Business in the Community Ireland, and a member of the Conference Board.



### **Dr Richard Toll, Senior Research Officer, Economic & Social Research Institute**

Dr Richard SJ Tol is a senior research officer at the Economics and Social Research Institute, Dublin; the Michael Otto Professor of Sustainability and Global Change at the Centre for Marine and Climate Research, Hamburg University; a principal researcher at the Institute for Environmental Studies, Vrije Universiteit, Amsterdam; and an adjunct professor at the department of engineering and public policy, Carnegie Mellon University, Pittsburgh. He is the second most prolific Dutch economist in terms of publications – he has been published 98 times in learned journals. An economist and statistician, he is interested in climate change, natural disasters, marine resources, tourism, land use, and water management. He is an editor of Energy Economics and has played an active role in international bodies, such as the Stanford Energy Modelling Forum, the Intergovernmental Panel on Climate Change, and the European Forum on Integrated Environmental Assessment.



### **Brian Nixon, Director of Energy, Scottish Enterprise**

Brian Nixon is a chartered engineer with an honours degree in mechanical engineering from Strathclyde University in Scotland. His career in the energy industries spans more than thirty years, evenly split between the downstream and upstream sectors. This experience was earned with major engineering contracting organisations including Motherwell Bridge, AOC International and most recently Wood Group Engineering. Following a six month business secondment to the Commercial Section of the British Embassy in Luanda (Angola) in 2001, Brian accepted his current role as Director of Energy with Scottish Enterprise.

Scottish Enterprise is Scotland's main economic development agency and is funded by the Scottish Executive. The Energy Team provides strategic advice and support to companies throughout the oil & gas, power generation and renewable energy industries, undertaking research and technology development, plus diversification assistance into alternative industries and overseas markets.

## PROGRAMME

### DAY 1

#### **8:00 Registration and breakfast**

Delegates are invited to beat the traffic by arriving early and having tea/coffee and pastries with colleagues, courtesy of iQuest and The Sunday Business Post



#### **8:50 Opening remarks and introductions from the chair**

**David Taylor, Chief Executive, Sustainable Energy Ireland**



#### **9:00 Ministerial address**

##### **Enhancing Ireland's Participation in the New Energy Economy**

**Noel Dempsey, TD, Minister for Communications, Marine and Natural Resources**

## ACCELERATING ALTERNATIVE ENERGY DEVELOPMENT

#### **9:10 Opening Keynote Address**

##### **View from Europe: Strategies for Sustainable, Competitive and Secure Energy**

*'One estimate puts the total investment going into clean energy at \$63 billion this year, up from \$30 billion in 2004'*

- Energy, Industry and Climate Policy
- New initiatives such as EU directive for renewables, innovative financing instruments, strengthening of current legislation, R&D needs, export opportunities



**Oliver Schäfer, Policy Director of EREC (European Renewable Energy Council)**

#### **9:45 Balancing Ireland's Energy Needs**

- Energy focal points and demand growth
- Balancing the fuel mix
- Secure, competitive and environmentally sustainable alternatives
- The process of change – moving toward sustainable alternatives
- The path ahead

**David Manning, Energy Executive, IBEC**

#### **10:15 Strategies to Increase the Amount of Renewable Energy in the Overall Mix**

- Planning for renewables
- Opportunities for the use of regulation and / or incentives to stimulate change and development
- Renewables in the all-island market
- Interconnection
- Metering policies



**Michael Tutty, Commissioner, Commission for Energy Regulation**

#### **10:40 Morning tea and exhibition viewing**

#### **11:00 Speed networking**

Events like this are where long-lasting and profitable business relationships begin. You can take the headache out of networking with our morning Speed Networking session. These brief meetings are the starting point for conversation and networking throughout the summit.

- Meet move...move on...meet...move on...meet!
- Exchange business cards with fellow summit delegates and industry peers
- The best 40-minute networking session you have ever experienced!

# CORPORATE COMMITMENT AND FINANCE IN RENEWABLE ENERGY

## 11:40 Investment Impacts of Renewable Energy Growth

Growth in renewable generation presents both opportunities and risks for traditional generators, network owners and energy suppliers. Jonathan Burton from Accenture will discuss possible routes for growth of renewables and the technologies that can support renewable energy in the Irish generation portfolio.



- Consumer-driven growth in renewables?
- Technology solutions to support renewables growth and efficiency
- Impacts of embedded renewables on distribution investment

**Dr Jonathan Burton, Senior Manager, Resources, Accenture**

## 12:10 Financing Waste and Renewables Projects: the latest developments

*No longer just the realm of 'hippy-dippy tree huggers', captains of industry are now busy investing in clean-energy technology.*

- What do funders look for?
- Key risks
- PPPs
- Financing models
- Current market developments

**Ashish Anand, Director, PFI & Structured Project Finance, Barclays Bank plc**



## 12:40 The Equity Investors' Perspective on Alternative Energy: the where, how, who and what of profitable investments

- Will high oil and gas costs continue?
- The future of the carbon market
- Technological choices
- Government support
- Operator performance
- Structures - funds, incumbents, public equities
- What are the likely winners and losers? Some to watch

**Peter Nolan, Principle, Radios Capital**



## 1:10 Lunch and exhibition viewing

## 2:10 Welcome back and introductions from the chair

**Jane Boyle, Senior Manager, Resources, Accenture**

## 2:15 Panel discussion Alternative Energies Scale Up

- Achievement of scale – how does this change the alternative / renewables sector?
- Fossil energy costs
- Who will be in the alternative energy space five years from now?
- Policies and actions needed to support renewables in the energy market over the next 20 years
- What is necessary for more aggressive long-term capital financing?

**Panelists will include leading national and international industry figures including:**

**Morgan Bazilian, Head of Policy Support, Sustainable Energy Ireland**  
**Peter Nolan, Principle, Radios Capital**

# MARKET TRENDS

## 2:55 CHP and District Heating

- When is CHP (combined heat and power) really CHP
- District heating – from small to large systems; examples from Denmark
- Heat sources; eg, surplus and waste heat, biomass, waste, etc

- Maximising energy efficiency – minimising carbon dioxide emissions

**Jan Oluf Clement, Team Leader, Energy Production, COWI, Denmark**

## 3:20 Afternoon tea and exhibition viewing

## 3:45 Keynote Address

### Sustainable Energy Development – A Utility Perspective

ESB has always stayed at the forefront of technology developments in delivering efficient and reliable energy to meet the needs of the Irish economy. ESB Chief Executive, **Padraig McManus, examines broad technology developments and sets out ESB's overall thinking in terms of delivering sustainable energy to meet customers needs into the future**



**Padraig McManus, Chief Executive, ESB**

## 4:15 Locknote Address

### Spatial Planning and Renewable Energy Plans

The paper will address a number of key issues in relation to better renewable energy delivery through spatial planning. These include the following

- The need for **strategic planning policies** at national and regional levels to ensure adequate infrastructure delivery.
- It's not just the energy performance of the dwelling that's important but also other factors including the location and design of new residential areas which may affect transport energy usage. Is there scope for a **'sustainability label'** for dwelling houses?
- There is also **a need for more innovative planning policies** addressing issues such as: complementary land uses, scope for district heating, efficient land use patterns and more 'plan led' wind energy infrastructure

**Hendrik W van der Kamp, President, Irish Planning Institute**

## 5:00 Day 1 ends

# DAY 2

## 8:15 Registration and breakfast

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## 8:45 Opening remarks and introductions from the morning chair

## 8:50 Keynote Opening Address

### The Economics of Climate Change and Climate Policy

- Costs and benefits of climate policy
- Climate policy: facts and rhetoric
- The role of Ireland in international climate policy
- Opportunities in the medium term

**Dr Richard Toll, Senior Research Office, Economic & Social Research Institute**



# INDUSTRY PERSPECTIVE

## 9:20 Building the Wind Industry

- Future of wind in Ireland
- What developers need from manufacturers
- New technologies in offshore wind and their impact on the industry
- Challenges and prospects of offshore wind
- Turbine cost and supply position
- Directions in wind finance

**Pamela Walsh, Head of Procurement & Project Execution, Airtricity**



## 9:50 Grid Networks: Playing a Key Role in Integrating Renewables

- Investments in new and upgraded infrastructure
- Major progress in Ireland on renewables
- Balanced portfolio of renewable sources
- All-island grid study



- The all-island market
- Interconnection with other systems
- Research and development

**Dermot Byrne, Chief Executive, Eirgrid**

**10:20 Morning tea and exhibition viewing**

## THE NUCLEAR ALTERNATIVE

### 10:45 Nuclear New Build in the UK: Key Issues of Policy and Delivery

- Strategic energy issues and the policy drivers behind a new nuclear energy programme in Britain
- Enabling new build delivery: key milestones and determining factors (pre-licensing, planning, waste)
- Public engagement – perception, and the lessons from the CoRWM enquiry on nuclear waste
- Safety & security – the tracking-and-tracing of nuclear materials in a British new build era



**Chris Lambert, Director, Westminster Energy Forum London**

### 11:20 The Benefits of Nuclear Power

Particularly in relation to:

- Climate change
- Pollution reduction
- Sustainability and security
- Industry and economy
- Hydrogen and transport

**Jim Morrissey, Founder Member, BENE (Better Environment with Nuclear Energy)**

## INNOVATION AND BEST PRACTICE ON RENEWABLES AND ENERGY EFFICIENCY

### 11:45 International Keynote Address

**A Scottish Perspective on Renewable Technologies development in the coming years**

- Energy Technology Perspectives: Scenarios and strategies to 2020
- The Future of renewable energy supply

**Brian Nixon, Director of Energy, Scottish Enterprise**



**12:25 Lunch and exhibition viewing**

**1:40 Welcome back and introductions from the afternoon chair**

### 1:45 Energy in Buildings, Auditing and Renewable Energy Innovation

- Meeting the EU Buildings Energy Efficiency Directive in Ireland
- The potential contribution from energy efficiency
- Energy auditing for industry
- What role for renewable energy?

**Dr Nick Wells, Technical Director, RPS Consulting Engineers**



### 2:15 Case Study: Co-Firing at Peat-Fired Power Stations

In the recently published **Green Paper on National Energy Policy**, the Government proposed an indicative target for co-firing the peat-fired power stations with carbon neutral fuels up to a level of 30 per cent by 2015. Edenderry Power Ltd currently burns 1 mt of milled peat annually, and though the plant produces relatively cheap electricity in the Irish wholesale market, it also produces 900,00 t of carbon dioxide per annum. Co-firing at the station at the levels indicated in the Green Paper has the potential to reduce carbon dioxide emissions from the plant by up to 30 per cent without reducing output. **The proposal has the potential to make a significant contribution to Ireland Inc's international emission reduction commitments under the Kyoto Protocol, as well as producing up**



**to 35mw of dispatchable, renewable electricity.**

The presentation will examine the issues around the co-firing targets, such as supply, economics and any technical issues that need to be addressed.

**John Reilly, Head of Power Generation & Renewables, Bord na Mona Energy**

### 2:45 Panel discussion

**Alternatives: These are not novel ideas; how long until they actually become part of the Irish infrastructure?**

- The ratio of fossil fuels to renewables
- How competitive is renewable energy?
- Regulation – an impetus for innovation?

**Panellists will include leading national and international industry figures**

**Eamon Ryan, TD, Green Party**

**John Mullins, Chief Executive, Bioverda**

**Fintan Conway, Irish Farmers Association**

**3:20 Afternoon tea and exhibition viewing**

## THE FUTURE

### 3:40 All Island Grid Study and R&D Opportunities

- All-Island Grid Study
  - background
  - methodologies
  - progress to date
- Research and Development
  - research priorities
  - funding schemes

**Professor Mark J O'Malley, Department of Electronic and Electrical Engineering, University College Dublin**



### 4:10 Developing Competitive Markets to Provide the Correct Price Signals for Investment in Alternative Energy

- Delivering a low carbon outcome in the EU
- Targets, government interventions, subsidies v. market signals?
- The EU Commission's proposals
- Are they sufficient and what more needs to be done?
- Disentangling the geopolitics of energy from energy market fundamentals
- What are the implications for Ireland?

**Paul Hunt, Energy and Regulatory Economist**



### 4:40 Locknote Address

**Can European Markets Sustain Competitive Energy Industry?**

*European energy markets are caught between dominant incumbent producers, backed by political interests and strategic centralised suppliers of conventional energy. In such an environment, it is doubtful that an alternative energy sector will be able to capture any significant share of domestic generation capacity. In addition, it is also doubtful whether real research and development into new alternative sources of energy can be carried out in Europe. This suggests that without drastic reforms, European energy markets are likely to develop a follower strategy, without taking global lead in innovation. Delayed adoption of our Asian and American competitors' best practices will prove a significant drag on European competitiveness into the future.*

*Are we really thinking about the future in our wind-wave biofuels strategy or are we already behind the curve with the US and India strategies. Can European markets in their current form really sustain competitive industry or are we locked into having alternative sources of energy as fringe competitors at best?*

**Dr Constantin Gurdgiev, Economist and Editor, Business & Finance magazine**



**5:15 Conference ends**

# EXHIBITION OPPORTUNITIES

Raise your profile, network with decision-makers attending this event and generate new business leads by exhibiting at The Alternative Sustainable & Renewable Energy Summit 2007

For details, call Suzanne Brennan on 087 9191 292 or email [suzanne.brennan@iquest.ie](mailto:suzanne.brennan@iquest.ie)

  
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## ACCENTURE

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In today's unpredictable environment, utilities confront changing regulations, ageing infrastructure assets, skills shortages, fuel-price volatility and the growing consideration of environmental directions. However, utilities looking to build for the future can also look to a fresh set of business solutions, enabled by digital technologies, sensing devices and software capabilities. Accenture can apply their industry expertise, business process knowledge and systems integration skills to help their utility clients achieve high performance.

With about 146,000 people in 49 countries, the company generated net revenues of US\$16.65 billion for its last fiscal year, ending on August 31, 2006.



## RPS GROUP

RPS is Ireland's largest all-island multi-disciplinary consultancy.

We provide services in energy, planning, environment, civil, structural, transportation, mechanical and electrical engineering. In Ireland, RPS employs about 1,000 professional and technical support personnel countrywide with offices in Dublin, Belfast, Cork, Galway, Limerick, Letterkenny and Waterford.

RPS has a dedicated energy team with extensive experience in energy management, efficiency and auditing; renewable energy; sustainable design consultancy; agri-energy; carbon emissions advisory; waste-to-energy; natural gas infrastructure and CHP and district heating. Our main areas of business range from initial project feasibility to project management, planning, detailed design development and construction supervision of major infrastructure projects. We are known for our proven ability to provide a cradle-to-grave range of services and to achieve integrated, workable solutions to complex problems.

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One day €480 + Vat €100.80 = €580.80

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If you do not wish to receive information on other events organised by iQuest and The Sunday Business Post please tick here

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# THE ALTERNATIVE SUSTAINABLE & RENEWABLE ENERGY SUMMIT 2007

April 23 & 24, 2007, Croke Park Convention Centre, Dublin

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