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ENVIRONMENTAL AND CLEAN TECHNOLOGIES

Scotland's Green Technology Revolution

Tuesday 26th October, Our Dynamic Earth, Edinburgh

Keynote speakers include:

Roseanna Cunningham MSP *Minister for the Environment, The Scottish Government*

Mark Johnson *Chairman, Innosight*

Professor Jacqueline McGlade *Executive Director, European Environment Agency*

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WELCOME

Scotland is on the brink of a green revolution. Over the next five years, tens of thousands of jobs could be created by investment in green technology. The vision of the Scottish Government and its partners is for a significant expansion in businesses developing state-of-the-art technologies to tackle pollution, manage waste and reduce carbon.

Environmental and Clean Technologies (ECT) include solutions for air, noise and marine pollution, land contamination, waste management and recycling, water-treatment, transport, sustainable construction and ICT to improve energy use or reduce pollution from manufacturing.

Scotland is already leading the way on renewable energy but our carbon reduction targets will not be met by these innovations alone. More and more businesses realise that environment-friendly strategies can result in economic growth. Currently, Scotland's share in the sector involves 73,000 workers in 4,000 businesses. Support from public sector partners could increase the number of jobs to 105,000 by 2015. But it will require a shift in mindset as well as structures, supported by attractive investment possibilities and political will.

In September 2009, The Scottish Government announced the ECT Action Plan. It is being developed by The Scottish Government, Scottish Enterprise, SEPA, Highlands and Islands Enterprise and the Scottish Funding Council. With the strategy due to be launched in the next few weeks, businesses will have time to digest the basic proposals prior to publication later in the year of more detailed plans for each of the five sub-sectors: water and waste water treatment; recovery and recycling; environmental monitoring and innovation; building technologies; and sustainable transport.

This conference will offer a timely introduction to ECT and how it has a financial and legal imperative which no business can ignore. How can we make people more carbon literate; what about funding; where is the best information found; and what should the strategies be for research and development and skills? It will emphasise the need for a joined-up approach and a requirement to think in terms of whole system changes rather than tinkering at the edges. It will also question where the strategy fits within The Government's sustainable economic agenda and the Scotland Performs league tables. The audience will have a significant opportunity at the event to help shape the future development of the strategy and influence Scotland's green economy.

Mandy Rhodes
Editor, *Holyrood* magazine

Session One

The ECT sector – benefits, context and leadership

Environmental and Clean Technologies (ECT) offer huge potential for Scotland; greater than the renewables industry. But ECT requires a wholesale rethink of how we do business. With the ECT strategy straddling environmental and economic ministerial responsibilities, and with a large number of agencies involved, the task appears daunting. But the benefits and the legal requirements mean it cannot be ignored. What are the implications for our economy, our communities and our environment?

08:45 : **Registration and refreshments**

09:30 : **Welcome and introduction by the Chair**

Keith Aitken

Broadcaster and Journalist

09:35 : **Post recession: The opportunity for business transformation and a new green economy**

Peter Young

Chairman, Aldersgate Group and Strategy Director, SKM Enviro

10:05 : **Jump starting the clean-tech economy**

Mark Johnson

Chairman, Innosight

10:50 : **What ECT means for Scotland's communities and environment**

Roseanna Cunningham MSP

Minister for the Environment, The Scottish Government

11:10 : **Questions and discussion**

11:30 : **Refreshments**

Session Two

Creating a clean technology renaissance in a post-industrial Scotland

Scotland's carbon reduction targets are ambitious but if the emphasis is placed solely on the renewables industry, they are doomed to fail. The key to meeting the targets is to shift the focus from developing individual technologies to creating whole new systems and structures for working. The potential for ECT lies not just in confronting environmental issues but equally in its massive potential for boosting the economy and creating jobs.

11:50 : **Confronting the risks and opportunities**

Dr. Simon Slater

Executive Director, Sustainability West Midlands and author of the UK's first regional low carbon economic strategy

12:10 : **The role of enterprise agencies in implementation**

Adrian Gillespie

Director, Energy and Low Carbon Technologies, Scottish Enterprise

12:30 : **Case studies**

This part of the session will feature a series of case studies from leading exemplars in some of the five key industries identified as part of the ECT strategy: Waste and Water Treatment; Recovery and Recycling; Environmental Monitoring and Instrumentation; Building Technologies and Sustainable Transport.

Recovery and recycling

Jim Montgomery

Site Director, BPI Recycled Products

13:10 : **Questions and discussion**

13:20 : **Lunch**

Session Three

Working in partnerships for economic growth that's good for the environment

The success of ECT depends on agencies working together despite often apparently opposing aims. Speakers will discuss the roles of their own organisations in the development and implementation of Scotland's ECT strategy. They will make the case for change through the alignment of environmental and business objectives and will examine what they have brought to the process, the vital role and practicalities of partnership working and the benefits to Scotland's environment and economy.

- 14:20 : **The benefits to the environment of ECT and why it makes business sense**
David Sigsworth
Chairman, SEPA
- 14:40 : **The potential impact on rural and remote Scotland**
Alex Paterson
Chief Executive, Highlands and Islands Enterprise
- 15:00 : **The vital role of skills, education and research in creating a carbon literate workforce**
Willy Roe CBE
Scotland Commissioner, UK Commission for Employment and Skills (UKCES)
- 15:20 : **Questions and discussion**
- 15:35 : **Refreshments**

Session Four

Making it happen – investment, policy and skills

Around 4,000 businesses across Scotland work in ECT. Many started in isolation unaware of the strategies and political will in place. Shifting to a low carbon economy and supporting "smart green growth" are at the centre of the European Commission's economic vision for the next 10 years. But without a coherent political plan, increased environmental regulation, investment and skills, the Scottish ECT industry could falter. What can be done to address the risks?

- 15:55 : **The European Environmental Technologies Action Plan (ETAP)**
Professor Jacqueline McGlade
Executive Director, European Environment Agency
- 16:15 : **The current and future potential for businesses in the economy**
See holyrood.com/greenrevolution for speaker updates
- 16:35 : **Questions and discussion**
- 16:45 : **Summary, conclusions and making it happen**
Mark Johnson
Chairman, Innosight
- 16:55 : **Closing comments from the Chair**
- 17:00 : **Close of conference**

KEYNOTE SPEAKERS



Roseanna Cunningham MSP

Minister for the Environment, The Scottish Government

Roseanna Cunningham was elected to the House of Commons in the Perth and Kinross by-election in 1995, was re-elected in 1997 and subsequently stood successfully for the Scottish Parliament in 1999. She stood down from Westminster in 2001. She has held a number of local and national offices in the SNP, including Deputy Leader from 2000-2004. She won 'Scottish Parliamentarian of the Year' in 2000. She has remained a member of the Scottish Parliament from 1999 to present and has three times been a Committee Convener – for the Justice Committee, the Health Committee and most recently the Rural Affairs and Environment Committee, from where she was appointed Minister for the Environment in 2009.



Mark Johnson

Chairman, Innosight

Mark Johnson is chairman of Innosight, a strategic innovation consulting and investing company with offices in Massachusetts, Singapore and India, which he co-founded with Harvard Business School professor Clayton M. Christensen. He has consulted to the Global 1000 and start-up companies in a wide range of industries—including health care, aerospace/defence, enterprise IT, energy, automotive and consumer packaged goods—and has advised Singapore's government on innovation and entrepreneurship.



Professor Jacqueline McGlade

Executive Director, European Environment Agency

Professor McGlade became Executive Director of the European Environment Agency on June 1 2003. Prior to this she was Natural Environment Research Council Professorial Fellow in Environmental Informatics in the Mathematics Department of University College London where her main areas of research included spatial data analysis and informatics, expert systems, environmental technologies and the international politics of the environment and natural resources. Previous appointments have included Director of the UK's Centre for Coastal & Marine Sciences, Director of Theoretical Ecology at the Forschungszentrum Jülich Germany, Associate Professor at the Honda-funded International Ecotechnology Research Centre and Senior Scientist in the Federal Government of Canada.



David Sigsworth

Chairman, SEPA

David Sigsworth took up office as Chairman of the Scottish Environment Protection Agency on 1 January 2008. Before joining SEPA, David's career spanned 43 years in the utility sector. He held several positions on the board of Scottish and Southern Energy plc (SSE) and had previously been Commercial Director of Scottish Hydro Electric plc since 1995. During the latter part of his career at SSE, he had responsibility for all of SSE's environmental issues and managed one of the largest and most diverse generation fleets in the UK with over 10,000 MW of plant. He was also responsible for a £1bn programme of investments in renewable generation technologies. He now undertakes a range of non-executive roles and is Chairman of Sigma Capital Group plc. Other directorships include companies developing or manufacturing photovoltaics, fuel cells, offshore wind generation and electricity load management.

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ENVIRONMENTAL AND CLEAN TECHNOLOGIES

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