

Chairman's Welcome



Dear Colleague,

It gives me great pleasure to introduce the latest news from the IET Energy Sector.

The challenge to generate and distribute increasing amounts of low carbon energy is galvanising governments and industry into action, the world over. As engineers, we're in a unique position to make future energy systems a reality.

Here in the UK, the launch of the IET's Power Network Joint Vision reports mark an important milestone in engineering the future GB system (see below 'IET calls for power grid rethink'). Please read our PNJV documentation and do respond to it, if you can. Your views are important to us.

Best wishes,

John Loughhead, Sector Chairman, IET Energy

Sector News



IET calls for power grid rethink. Your feedback please!

The IET Power Network Joint Vision, an expert group involving industry, government, the regulator and academia, is warning that new 'whole system' thinking is needed to ensure the lights stay on in Great Britain. "The scale and complexity of the challenges ahead is new. Potentially even greater than when the national grid was first developed in the 1930s," says PNJV Chair and IET Fellow Dr Simon Harrison. Please download the group's Position Statement and send us your views. "This is a cross-industry challenge, so we want to hear from as wide a range of stakeholders as possible", adds PNJV Committee Member John Scott.

[Please send in your views by 4 January](#)



£11m TSB competition opens for local energy

The Technology Strategy Board and the EPSRC are to invest up to £11m in R&D to stimulate innovation in localised energy systems. "We want to improve the demand/supply balance by supporting the integration of technologies into energy systems, from clusters of buildings up to whole districts," says TSB Energy Supply Lead Technologist, Christian Inglis. "The competition opens on 20 January 2014. All interested parties are

Publications & Resources



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Watch out for further details early in the New Year!

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welcome to join a briefing event on 30 January in Bristol. Please get in touch with us.”

[For competition dates and details visit the TSB website](#)



Energy Recovery's Exchanger scoops innovation award

Energy Recovery's PX Pressure Exchanger® has won two coveted 2013 IET Innovation Awards in the categories of Power/Energy and Sustainability. Exchanger devices enable high pressure fluid flow processes such as desalination, natural gas treatment and chemical processing to become more sustainable by salvaging and reusing 60% of the energy previously lost, saving energy, money and reducing CO2 emissions.

[More details on the winning entry!](#)



6 Jan deadline for All-Energy abstracts

All-Energy is the leading renewables event showcasing latest technologies, hosting an eclectic multi-stream conference and attracting senior industry figures from across Europe. The 2014 event takes place in Aberdeen on 21 & 22 May. The call for papers provides the opportunity for you to make your mark either by suggesting topics you would like to be addressed, or by submitting a 300-word abstract of the presentation you would like to deliver.

[Send in your abstract by Monday 6th Jan](#)

Sector Highlights



Offshore wind farm subsidy boost – good news or bad?

Opinion is divided over the Government's recent announcement to improve offshore wind subsidies at the cost of onshore schemes. The hope is that loss of subsidy will not necessarily lead to a reduction in the number of new onshore wind farms. However, some commentators have predicted that the 5% cut could jeopardise the viability of some community-led schemes.

[What are your views?](#)

A Nissan Leaf for £100 pcm when you sign up 9 neighbours

This is the story of 'My Electric Avenue', a ground-breaking experiment to roll out electric vehicle use to local communities – see <http://myelectricavenue.info>. In this short film, Dave Roberts from EA Technology offers some useful insights on the journey thus far to bring EV to the masses, embracing cluster champions from the community.

[Could your street be an electric avenue?](#)

find out about or a paper you'd like to add to the Journal, take a look online.

[Find out more!](#)



Award-winning paper FREE to access

The winning entry for the 2013 IET Renewable Power Generation Premium Award was 'DC voltage control and power dispatch of a multi-terminal HVDC system for integrating large offshore wind farms' by L. Xu and L. Yao.

[Read it now in the IET Digital Library](#)

IET.tv



Power in Unity - A Whole System Approach

Catch up with the presentations from this event which took place on 16th and 17th October 2013 in London.

[View videos](#)

Upcoming Events

11 Feb 14 [Third Energy Package and the implications for the GB Electricity Supply Industry](#)

Hilton Garden Inn, Birmingham

DECC's Sue Harrison and Electricity North West's Mike Kay unwrap the 'Third Package' - an important piece of EU legislation on European gas and electricity markets.

27 Mar 14 [Nuclear Engineering for safety, control and security](#)

Aztec Hotel, Bristol

This one-day seminar will examine challenges for the industry looking to the future and the vital role that engineers and engineering will play in providing effective solutions.

31 Mar - 3 Apr 14 [DPSP 2014: 12th International Conference on Developments in](#)





Renewables - from both sides now

Delegates attending November's Renewable UK conference got a burst of energy policy to come from the main political parties. Addressing conference on day one, Ed Davey, DECC Secretary of State spelt out the Government's commitment to drive down the cost of offshore wind energy, announcing cash-backing for four offshore projects. The next day, Julie Elliott, DECC Shadow Minister, outlined Opposition plans to reform the energy market in order to deliver investment in renewable energy and regain public trust in the energy market. Watch both addresses now!

[Julie Elliott](#)
[Ed Davey](#)

[Power System Protection](#)

Tivoli Hotel and Congress Centre, Copenhagen, Denmark

Attend DPSP 2014 to hear over 150 technical presentations covering the latest industrial and academic research on system protection techniques and applications; and network and share best practice with specialists from over 30 countries. Plus keynote talks from the Royal Institute of Technology (KTH) and Network Rail.

**8-10 April
14**

[PEMD 2014: 7th IET international conference on Power Electronics, Machines and Drives](#)

Midland Hotel, Manchester

Join over 400 power electronics, machines and drives specialists at one of the world's most important conferences in this field. With keynote addresses from Marc Fervel, Primary Flight Control System R&T Leader, Airbus and M Paul Rivera, Global Product Group Director, Hybrids and Electrical Systems, Ricardo.

Sector Review



Outcry on bills, green taxes and shale hail the changes

In his latest blog, IET Energy Chairman John Loughhead takes stock of the last few weeks underlining the need for the IET and others to keep pressing key messages home. Not least, the need to create the right conditions for investment and the need for an electricity system architect (PNJV) to meet the new challenges of future supply.

[Read John's blog in full](#)



UK Power Networks lead London EV leasing trial

As seen at the recent Low Carbon Network Fund Conference, UK Power Networks are promoting their Institute for Sustainability/GLA/TfL-backed initiative to provide a free EV charging unit when individuals or organisations take on the lease of a brand new electric vehicle. The opportunity is part a wider project being run by Low Carbon London which involves a series of trials across the capital to understand the impact of low carbon technologies on the electricity network.

[Find out more!](#)



Young engineers eye renewable careers

As part of its commitment to promote engineering careers, the IET was recently at the NEC, Birmingham for Renewable UK's 2013 Annual Conference and Exhibition. Regional Development Manager, Justin Mingaye addressed students and young engineers attending the public session on careers in renewables, alongside speakers from The Crown Estate, RES and UK Power Networks. Dick Bacon and Gordon Graham took the stand at the show's adjacent 'Careers Fair', generating membership, professional development and knowledge products enquiries.

[More Conference highlights!](#)

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What makes an Admired Engineer?

The IET Information & Communications Sector is keen to lend its support to an important piece of research on 'The Characteristics of an Admired Engineer' from leadership development specialists, Perspectiv. Please help us by sparing a few moments to complete the simple survey which seeks to identify the similarities and differences between the attributes of leaders in general, professional engineering leaders, and engineers.

[Take the survey now!](#)



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International



Expert speakers required for Guangzhou seminar

In March, the IET and China Electricity Council (CEC) will host the 2014 Asia Pacific Region Distribution Equipment Communication Seminar in Guangzhou, China. IET China is looking to recruit more expert speakers and add more hot topics to our industry forums. If you would like to suggest a topic, participate as a speaker or recommend a speaker, please send your contact details and a short note to Jenny Li at the IET China.

[Email IET Beijing today!](#)



Do you travel to India or China?

The expertise and enthusiasm of our members is our greatest strength. If you can deliver a lecture, attend a conference or support our Asian members to host a local event, you could be helping to introduce even more people to the fascinating world of engineering and technology. If this is of interest to you please get in touch by email.

[Interested? Please email us!](#)



Engineering in China with the IET

IET China has been developing a number of partnerships with businesses and universities across the country. Within the I&C Sector alone, it is working with the Beijing University of Posts and Telecommunications, the Beijing Institution of Technology and Ningxia University among others. If you are an IET member, an engineer or academic looking to establish contacts, ask questions or progress projects in China the IET can help.

[Email IET Beijing](#)

Your Feedback



Your feedback welcome!

We hope you enjoy reading our e-newsletter. We're keen to celebrate and champion the work of engineers and technicians working in the Energy sector. We'd like to invite your suggestions as to subject areas or hot topics you'd like to see covered by the Sector. Perhaps there's a burning issue you feel passionately about or a project you feel your peers would benefit hugely from knowing more about? Alternatively, you might just want to get in touch to register your interest in getting involved in the Sector or to offer your comments on this e-newsletter. I look forward to hearing from you. Do get in touch!

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