Dear Colleagues,

It is with the greatest pleasure that I welcome you to the 35th International Energy Workshop (IEW), the latest annual congregation of energy modellers from all four corners of the world. This year we had a record number of abstract submissions from 26 countries and we are delighted to present to you with an exceptional programme of speakers and presentations.

Welcome also to the province of Munster and to Cork, a city with a proud heritage of teaching and learning. Cork city has its humble beginnings in a monastic settlement, founded by St Finbarr in the sixth century. Today, University College Cork (UCC) bears the motto ‘Where Finbarr taught, let Munster learn’ on its crest signifying the city’s continuing commitment to the advancement of knowledge and learning. One area where UCC has a strong track record is in energy engineering research and education. Cork also boasts a proud marine heritage centred around Cork harbour being the second largest natural harbour in the world. These two traditions of energy and marine have also come together with the opening last year of the National Centre for Marine and Renewable Energy (MaREI), which is one of the largest marine and energy-based research centres in the world. The year 2016 marks an important milestone for Irish history as Ireland reflects on 100 years as a nation. It is telling that in the same decade as the birth of the Irish State, Ireland’s small energy system was almost 100% renewable. Since then the country has seen extraordinary changes, growth, and development, including massive changes to the energy system which today in 2016 sees us obtain 9% of energy from renewable sources.

Ireland, like the rest of the world, urgently needs to rise to the challenge of climate change. Last year the Irish Government set the goal of attaining a low carbon, climate resilient and environmentally sustainable economy by 2050. The challenges in this transition, which are mirrored across the globe, are significant but so too are the opportunities and Ireland has had some success stories to date. In Europe, Ireland is leading the way in the deployment and integration of onshore wind electricity; our power system has reduced its carbon intensity by almost 50% since 1990 while the consumption of electricity doubled in the same period; our car tax scheme has been one of the most successful in Europe in improving the CO2 performance of new cars; energy use in the residential sector has dropped by almost 20%, in part due to residential retrofitting programs; in Irish industry it now takes half the amount of energy it did in 1990 to generate one euro of gross value added. For this momentum to continue, careful scrutiny of future choices of low carbon technologies and pathways will be required to provide the necessary insights to understand the risks, opportunities and challenges of this transition.

In this first major energy modelling event since the historic COP-21 meeting in Paris, we will reflect on the new political challenge, i.e. limiting climate change to well below 2C. We have focused on three core themes for IEW 2016: Policies, Pathways and People. These themes form not only the basis for discussion at the Workshop, but also form the important pillars that any global transition to a decarbonized society will need to be built on. We encourage all our participants to actively engage in the diverse discussions and we hope you enjoy your stay in Cork.

Cead mile fáilte, that is, one hundred thousand welcomes!

BRIAN Ó GALLACHÓIR
CHAIR, INTERNATIONAL ENERGY WORKSHOP 2016
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Conference App
To Download the IEW 2016 Conference App, simply go to www.Slidio.com and enter in the password 'IEW2016'
www.Slidio.com
The International Energy Workshop (IEW) is a leading conference for the international energy modelling community. In a world of environmental and economic constraints, energy modelling is an increasingly important tool for addressing the complexity of energy planning and policy making. The IEW provides a venue for scholars and researchers to compare quantitative energy projections, to understand the reasons for diverging views of future energy developments, and to observe new trends in global energy production and consumption.

The 2016 conference (IEW2016) is being hosted by University College Cork, in Cork, Ireland on June 1–3, 2016. IEW2016 will be the first international energy modelling conference held after the historic Paris Agreement that was reached at COP21 in December 2015. IEW2016 will pay particular attention to the post-COP21 global challenges, especially the 1.5 degrees target.
Eight internationally recognised keynote speakers will all address the Post-Paris landscape under different themes of Policy, Pathways and People. In addition over 100 papers will be presented during 3 days of parallel sessions on a range of the following topics:

- Air Quality; Co-Benefits
- Behaviour and People
- Bioenergy Pathways
- Decarbonisation Pathways
- Energy Security
- Energy System Innovation
- Environmental Taxes, Trade & Markets
- Macro & Socio Economic Impacts
- Modelling Uncertainty
- Post Paris Pathways
- Power System Pathways
- Residential Energy Efficiency
- Sustainable Development
- Transport Pathways
- Water Land Energy Nexus

2016 Programme Committee

The selection of submitted papers and long abstracts is directed and made by the IEW Programme Committee, which includes, among others, the IEW co-directors and the 2016 local organisers:

- Geoffrey Blanford, Electric Power Research Institute (EPRI)
- Massimo Tavoni, Fondazione Eni Enrico Mattei (FEEM)
- Bob van der Zwaan, Energy Research Centre of the Netherlands (ECN)
- Brian Ó Gallachóir, University College Cork (UCC)
- Paul Deane, University College Cork (UCC)
- Fionn Rogan, University College Cork (UCC)
- James Glynn, University College Cork (UCC)
- Alessandro Chiodi, University College Cork (UCC)
- John Curtis, Economic and Social Research Institute (ESRI)
- Muireann Lynch, Economic and Social Research Institute (ESRI)
About University College Cork

UCC was established in 1845 as one of three Queen’s Colleges – at Cork, Galway and Belfast. These new colleges were established in the reign of Queen Victoria, and named after her.

University College Cork (UCC) is one of the premier research institutions in Ireland and, internationally, is ranked in the top 2% of universities worldwide (QS World University Rankings 2013). The Environmental Research Institute (ERI) is a flagship institute at UCC, which brings together researchers from the natural and social sciences to carry out cutting-edge environmental, marine and energy research. The ERI has over 300 researchers, publishes more than 180 peer-reviewed research papers annually and has an average recurrent grant income of €8M.

The Energy Policy and Modelling Group in UCC has been engaged in energy policy and energy modelling research for over 15 years. The results of this research have been published in journal papers, conference proceedings and reports. In addition, the research has directly informed the development of national energy policy such as the recent Energy White Paper and Climate Legislation.
GREENING IEW 2016
LEAVE NO TRACE BEHIND

In 2011, UCC became the first university in the world to achieve the ISO 50001 standard in energy management, in 2013 UCC became the first university in the world awarded the green flag campus, and in 2015 UCC was ranked 4th in the world in the UI World Green Metric University Rankings.

For this year’s IEW, UCC are aiming to minimise the total carbon emissions associated with the conference through a number of measures. The most carbon intensive activity of this workshop is the associated travel, due to its international nature. Over two hectares of forestry will be planted to neutralize the expected 80 tonnes of carbon emissions associated with transport to the conference. To provide for this, each delegate will be offered the option of negating their transport emissions through contributing €5 (or more) towards forestation.

Other areas of decarbonisation will focus on the impact of the food provided in the conference. As much as possible, we aim to provide locally sourced food and provide one meat-free day while donating the excess food waste to a local anaerobic digestion plant. All these measures will combine to make this workshop the greenest IEW yet.
INTERNATIONAL ENERGY WORKSHOP 2016

Partners
THANK YOU FOR YOUR SUPPORT

IRENA
International Renewable Energy Agency

EPRI
ELECTRIC POWER RESEARCH INSTITUTE

etSap
Energy Technology Systems Analysis Program

Roinn Cumarsáide, Fuinnimh & Acmhainni Nádúrtha
Department of Communications, Energy & Natural Resources

EirGrid

ervia

ESB

epa
Environmental Protection Agency
An Forbairt Phoiblí agus Chaochta

Sustainable Energy Authority of Ireland

Comhshaoil, Pobal agus Rialtas Áitiúil
Environment, Community and Local Government

Cork City Council
Comhairle Cathrach Chorcaí

IEW 2016
**Professor Brian Ó Gallachóir**
Environmental Research Institute, University College Cork, IRELAND

Brian Ó Gallachóir is Professor of Energy Policy and Modelling in University College Cork’s Environmental Research Institute with over 25 years research experience in energy modelling. He is also current Chair of the Executive Committee for IEA’s Energy Technology Systems Analysis Programme (IEA-ETSAP). Brian’s research focus is on building and using integrated energy systems models to inform energy and climate change mitigation policy. He is Co-Principal Investigator in the Centre for Marine and Renewable Energy (MaREI), a marine and energy-based research, development and innovation hub based in Ireland.

He is also a member of Ireland’s Gas Innovation Group and is Vice-Chair of Energy Cork, an industry-driven cluster pursuing coordinated actions to strengthen enterprise and employment within the energy sector in the Cork region. Brian has a first class honours BSc Degree in Applied Sciences and a PhD in Optimal Design of Wave Energy Devices. He has over 140 peer reviewed publications, 1874 citations and a h-index of 22. He is advising the Irish Government in negotiations with the European Commission regarding 2030 energy and climate targets.

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**Dr. Jan Nill**
Climate and Energy Policy Analyst, European Commission, Brussels, BELGIUM

Dr Jan Nill is an EU Climate and Energy Policy Analyst at the European Commission, Directorate-General Climate Action. Unit Strategy and Economic Assessment. He graduated at the Free University of Berlin and holds a PhD in Economics from the University of Kassel.

His responsibilities in DG CLIMA include EU energy and climate modelling, climate related aspects of the EU energy, transport and GHG emission r reference scenarios 2013 and 2016, and analysis related to the 2030 framework for climate and energy policies.
Professor Frank Convery  
Chief Economist, Environmental Defence Fund, New York, USA  
University College Dublin, IRELAND

Frank Convery is the chief economist at the Environmental Defense Fund (EDF), where he manages EDF’s Office of Economic & Policy Analysis (OEPA). The mission of the OEPA is to drive the use of credible price signals that protect the environment and conserve common property resources in ways that are efficient and fair.

Throughout his career, Frank has advocated for the introduction of a price signal for the environment and has helped develop institutions and research programs that would build evidence for and advance that goal.


Professor Diana Ürge-Vorsatz  
Central European University, Budapest, HUNGARY

Professor Diana Ürge-Vorsatz is a leading expert on interdisciplinary research on buildings and energy use. She is the Director of the Center for Climate Change and Sustainable Energy Policy at CEU and a Coordinating Lead Author of “Buildings” chapter in the IPCC’s 5th Assessment Report on climate change mitigation.

She has recently been elected Working Group III Vice chair of the IPCC.

Continue reading at next page >
Jonathan O'Sullivan
EIRGRID, IRELAND

Jonathan O'Sullivan has spent over 20 years working in the electricity industry in the planning, operation and markets design. In this time he has developed an acknowledged expertise in the theoretical modelling of the system, the necessary practical operation practices and the requirements for a well designed and functional market. In recent years Jonathan has been central to the implementation of the first electricity market in Ireland in 2000, the first all island market in 2007, the development of the “Delivering a Secure Sustainable Power System” (DS3) programme which will deliver the secure and reliable operation of the Ireland and Northern Ireland power system with unprecedented levels of wind electricity by 2020.

His current role in EirGrid, the transmission system operator in Ireland and Northern Ireland, is Manager of Innovation. Through this Jonathan drives general innovation in the group as well as specific technology strategies which include DS3, distributed power flow control devices, solar and storage. To do this Jonathan’s team need to consider the future needs of the power system and envisage how these multiple technology strategies may interact at scale. These considerations require technical, economic and government policy considerations.

Jonathan is an active member of ENTSO-E, the European association of TSO, where he contributes to working groups and committees on innovation, research, markets and renewables, long term market design and TSO-DSO interaction.

Dr. Brian Motherway

Dr Brian Motherway is Head of the Energy Efficiency Division at the International Energy Agency, overseeing a range of analytical and outreach programmes supporting energy efficiency globally.

Prior to joining the IEA Brian was Chief Executive of the Sustainable Energy Authority of Ireland. Brian holds Bachelors and Masters degrees in engineering and a PhD in sociology.
Professor Ambuj Sagar
Indian Institute of Technology Delhi, INDIA

Ambuj Sagar is the Vipula and Mahesh Chaturvedi Professor of Policy Studies at the Indian Institute of Technology Delhi and a visiting scholar (2015-16) at MIT (Tata Center for Technology and Design) and Harvard (Kennedy School (HKS) and Paulson School of Engineering and Applied Sciences (HSEAS)). Ambuj’s interests broadly lie at the intersection of innovation and development. His recent work has focused on understanding and strengthening innovation policies and processes in India and other developing countries (including a particular focus on sustainability and inclusivity challenges); energy and climate change policy, politics, and institutions; and higher education.

He is/has been a member of several national and international expert groups and also has been consultant/advisor to various Indian Govt. ministries as well as many multilateral and bilateral agencies. Ambuj did his undergraduate studies in Mechanical Engineering at IIT Delhi. He subsequently received an M.S. in Aerospace Engineering from the University of Michigan and then an M.S. in Materials Science, a Ph.D. in Polymer Science, and an M.S. in Technology and Policy from the Massachusetts Institute of Technology.

Dr. Richard G Richels
EPRI

Dr. Richard Richels was Senior Technical Executive for Global Climate Change Research at the Electric Power Research Institute (EPRI) in Palo Alto, California. He currently serves as a consultant to EPRI on matters related to the economics of climate change risk management.

He has served on a number of national and international advisory panels, including committees of the Department of Energy, the Environmental Protection Agency and the National Research Council. He has served as an expert witness at the Department of Energy’s hearings on the National Energy Strategy and testified at Congressional hearings on priorities in global climate change research.

In addition, Dr. Richels has served as a lead author for the Intergovernmental Panel on Climate Change’s (IPCC) Second, Third, Fourth and Fifth Scientific Assessments and served on the Synthesis Team for the US National Assessment of Climate Change Impacts on the United States.

He was awarded an M.S. degree in 1973 and Ph.D. degree in 1976 from Harvard University’s Division of Applied Sciences where he concentrated in Economics and Decision Sciences. While at Harvard he was a member of the Energy and Environmental Policy Center. He has written extensively on the issue of climate change and is the coauthor of Buying Greenhouse Insurance (MIT Press) with Alan Manne.
Conference Format

Background Format
The 35th edition of the IEW includes three plenary sessions in the mornings and more than 100 presentations in 43 parallel sessions in the afternoons, focusing on a wide array of topics. In addition, four lunchtime seminars will take place, as well as two social events on both conference nights.

Instructions to Chairpersons
Each session has been assigned a Chairperson. Every session has two to three papers, and each paper has a total time slot of 25 minutes. This includes a presentation of 20 minutes followed by 5 minutes for questions and discussion. We ask the Chairpersons to observe the start and closure time of each session, and to be strict on the time allocation as a way to give equal opportunity to all speakers.

All rooms are equipped with a projector and a computer for PowerPoint presentations. We advise the Chairperson to arrive a few minutes before the start.

Instructions to Parallel Session Presenters
We have reserved 20 minutes for presentation of your paper followed by 5 minutes of questions and discussion. We kindly ask all speakers to strictly adhere to their time allocation in consideration of other speakers and participants and ensure smooth running of the sessions. All conference rooms will be equipped with a projector and computer for PowerPoint presentations. We recommend that you arrive a few minutes before the session begins, make sure your presentation is loaded and make contact with the chair of the session.

DAY 1
REGISTRATION
8.30 - 9.00
PLENARY 1
9.30 - 11.30
COFFEE BREAK
PARALLEL 1
12.00 - 12.50
LUNCH
SIDE EVENTS
12.50 - 14.00
PARALLEL 2
14.00 - 15.15
COFFEE BREAK
PARALLEL 3
15.45 - 17.00
CIVIC RECEPTION
19.00 - 20.30

DAY 2
REGISTRATION
8.30 - 9.00
PLENARY 2
9.00 - 11.00
COFFEE BREAK
PARALLEL 1
11.30 - 12.45
LUNCH
SIDE EVENTS
12.50 - 14.00
PARALLEL 2
14.00 - 15.15
COFFEE BREAK
PARALLEL 3
15.45 - 17.00
GALA DINNER
19.00 - 22.30

DAY 3
REGISTRATION
8.30 - 9.00
PLENARY 3
9.00 - 11.00
COFFEE BREAK
PARALLEL 1
11.30 - 12.45
LUNCH
SIDE EVENTS
12.50 - 14.00
PARALLEL 2
14.00 - 15.15
COFFEE BREAK
PARALLEL 3
15.45 - 17.00
# PLENARY SESSIONS SCHEDULE

## DAY 1 - POLICY

*Room G.05*

**BRIAN Ó GALLACHÓIR**  
UCC  
9.30 - 11.30

**DR. JAN NILL**  
DG CLIMA  
10:10 - 10.50

**FRANK CONVERY**  
ENVIRONMENTAL DEFENSE FUND  
10.50 - 11.30

**MODERATOR**  
GEOFFREY BLANFORD (EPRI)

## DAY 2 - PATHWAYS

*Room G.05*

**RICHARD RICHELS**  
EPRI  
9.00 - 9.40

**AMBUJ SAGAR**  
INDIAN INSTITUTE OF TECHNOLOGY  
9.40 - 10.20

**JONATHAN O’SULLIVAN**  
EIRGRID  
10.20 - 11.00

**MODERATOR**  
BOB VAN DER ZWAAN (ECN)

## DAY 3 - PEOPLE

*Room G.05*

**DIANA URGE-VORSATZ**  
CENTRAL EUROPEAN UNIVERSITY  
9.00 - 9.40

**BRIAN MOTHERWAY**  
IEA  
9.40 - 10.20

**PANEL DISCUSSION**  
10.20 - 11.00

**MODERATOR**  
MASSIMO TAVONI (FEEM)

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## LUNCHTIME SIDE EVENTS | 12.50 - 14:00

**DAY 1**  
Deep Decarbonisation Pathways Project  
Chair: Steve Pye

**DAY 2**  
Economic, environmental and social impacts (JP e3s)  
Chair: Maria Rosa Virdis

**DAY 3**  
OSeMOSYS  
Chair: Abhishek Shivakumar
Wednesday, 1st June 2016

Day 1 – Plenary Session 1 (9.30 - 12.30)

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Institution</th>
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<tr>
<td>9.30 – 10.10</td>
<td>Brian Ó Gallachóir</td>
<td>UCC</td>
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<td>Jan Nill</td>
<td>DG Clima</td>
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<td>10.50 - 11.30</td>
<td>Frank Convery</td>
<td>Environmental Defense Fund</td>
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Registration 8:30 – 9:00

Welcome Address 9:00 – 9:30
Ministerial Address – Opening IEW 2016
Welcome to University College Cork
Welcome to the International Energy Workshop
Greening the International Energy Workshop

Keynote Session
Day 1 – Policy
9.30 – 11.30, Room G.05
Moderator: Geoffrey Blanford (EPRI)
### Day 1 - Parallel Session 1 (12.00 - 12.50)

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<tbody>
<tr>
<td><strong>Air Quality; Co-Benefits</strong>&lt;br&gt;Room G01&lt;br&gt;Chair: Melissa C. Lott (UCL)**</td>
<td><strong>Water Land Energy Nexus</strong>&lt;br&gt;Room G02&lt;br&gt;Chair: Sonia Yeh (Chalmers University of Technology)**</td>
<td><strong>Energy System Innovation</strong>&lt;br&gt;Room G03&lt;br&gt;Chair: Wouter Nijs (JRC-IET)**</td>
<td><strong>Power System Pathways</strong>&lt;br&gt;Room G04&lt;br&gt;Chair: Jan Steckel (TU Berlin)**</td>
<td><strong>Post Paris Pathways</strong>&lt;br&gt;Room G05&lt;br&gt;Chair: Steve Pye (UCL Energy Institute)**</td>
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<tr>
<td>The impacts of policies to meet the UK climate change act target on air quality – An explicit modelling study&lt;br&gt;Martin Williams, King’s College London, United Kingdom</td>
<td>Global freshwater demand for electricity generation to 2100 under low-carbon scenarios&lt;br&gt;Michela Bevione - Fondazione Eni Enrico Mattei</td>
<td>The political economy of energy innovation&lt;br&gt;Shouro Dasgupta, Fondazione Eni Enrico Mattei (FEEM) &amp; Centro Euro-Mediterraneo per i Cambiamenti Climatici (CMCC), Italy</td>
<td>Nuclear off or on? The impact of nuclear power generation on electricity wholesale prices in a small, open economy Evidence of nuclear power plants' restart in Belgium&lt;br&gt;Danielle Devogelaer, Federal Planning Bureau</td>
<td>On the way to a decarbonized world: An analysis of the Paris climate agreement with TIAM-FR&lt;br&gt;Sandrine Selosse, MINES ParisTech- CMA, France</td>
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<td>Air quality co-benefit evaluation of China’s carbon peaking effort based on China-MAPLE model&lt;br&gt;Xi Yang, China University of Petroleum, China</td>
<td>Advanced stochastic optimization modeling of the water-energy-food nexus for robust energy and agricultural development: Coal mining industry in Shanxi province, China&lt;br&gt;Xiangyang Xu, China University of Mining and Technology, Beijing, China</td>
<td>Optimal international technology cooperation for the 2 degree target&lt;br&gt;Anselm Schultes, Potsdam Institute for Climate Impact Research</td>
<td>Integration of VRE in the Nordic Energy System&lt;br&gt;Kenneth Karlsson, Technical University of Denmark</td>
<td>Assessing the ambition level, of INDCs target of US, EU, China and India&lt;br&gt;Xueqin Cui, Renmin University of China</td>
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<td>Parallel A</td>
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<td>Decarbonisation Pathways</td>
<td>Macro &amp; Socio Economic Impacts</td>
<td>Post Paris Pathways</td>
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<tr>
<td><strong>Room G01</strong>&lt;br&gt;Chair: Martin Williams (King’s College London)</td>
<td><strong>Room G02</strong>&lt;br&gt;Chair: Florian Kraxner (IIASA)</td>
<td><strong>Room G03</strong>&lt;br&gt;Chair: Maria Rosa Virdis (ENEA)</td>
<td><strong>Room G04</strong>&lt;br&gt;Chair: Steven Rose (EPRI)</td>
<td><strong>Room G05</strong>&lt;br&gt;Chair: Sandrine Selosse (MINES ParisTech)</td>
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<tr>
<td>Is energy transition beneficial to sectors with high employment content? An input-output analysis for France</td>
<td>Assessing the long-term potential of bioenergy in electricity, heat and grid balancing markets: case study for Switzerland</td>
<td>Long-term dynamics of technological change in mitigation scenarios&lt;br&gt;Charlie Wilson, Tyndall Centre for Climate Change Research, University of East Anglia, United Kingdom</td>
<td>Economic structural change as an option for mitigating the impacts of climate change&lt;br&gt;Alexander Golub, The World Bank, United States of America</td>
<td>Equitable burden sharing: Modelling the macroeconomic impacts of the carbon constrained energy system in ETSAP-TIAM-MACRO&lt;br&gt;Socrates Kypreos, PSI, Switzerland</td>
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<td>Quentin Perrier, CIRED, France</td>
<td>Evangelos Panos, Paul Scherrer Institute, Switzerland</td>
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<td>Up In The Air: A framework for quantifying the co-impacts of energy sector decarbonisation on outdoor air pollution</td>
<td>Bioenergy as a potential to avoid early phase out of stranded assets&lt;br&gt;Victor Keller, University of Victoria, Canada</td>
<td>Offshore CCS and ocean acidification: A global long-term probabilistic cost-benefit analysis of climate change mitigation&lt;br&gt;Bob van der Zwaan, ECN and University of Amsterdam, Netherlands</td>
<td>The deployment of low carbon technologies in energy intensive sectors: A GCE analysis for Europe, China and India&lt;br&gt;Stefan Nabernegg, University of Graz, Austria</td>
<td>Achieving net-zero emissions: reframing national targets in the post-Paris Agreement era&lt;br&gt;Steve Pye, UCL Energy Institute, United Kingdom</td>
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<td>Melissa C. Lott, University College London Institute for Sustainable Resources, United Kingdom</td>
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<td>Assessing health externalities of fossil fuel power in Taiwan</td>
<td>Evaluating the impact of bioenergy emission accounting methodology in energy system decarbonisation pathways to 2050 using a scenario approach: A case study of UK.&lt;br&gt;Nagore Sabio, UCL Energy Institute, United Kingdom</td>
<td>Regional climates, impacts, and strategic SRM&lt;br&gt;Massimo Tavoni – FEEM (Italy)</td>
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<td>Transparency and comparability of the INDCs - results from the WITCH model&lt;br&gt;Lara Aleluia Reis, FEEM and CMCC, Italy</td>
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<td>Meng-Ying Lee, Industrial Technology Research Institute (ITRI), Taiwan</td>
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**Notes:**
- **Room G01:** Air Quality; Co-Benefits
- **Room G02:** Bioenergy Pathways
- **Room G03:** Decarbonisation Pathways
- **Room G04:** Macro & Socio Economic Impacts
- **Room G05:** Post Paris Pathways
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<thead>
<tr>
<th>Day 1 - Parallel Session 3 (15.45 - 17.00)</th>
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<tr>
<td><strong>Parallel A</strong></td>
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<tr>
<td>Residential Energy Efficiency</td>
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<tr>
<td>Room G01</td>
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<tr>
<td>Chair: Kari Aamodt Espegren (IFE)</td>
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<tr>
<td>Amaia de Ayala - Basque Centre for Climate Change (BC3)</td>
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<tr>
<td>Residential energy efficiency and European carbon policies: A CGE-analysis with bottom-up information on energy efficiency technologies</td>
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<td>Orvika Rosnes - Statistics Norway</td>
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- **Room G01**
- **Room G02**
- **Room G03**
- **Room G04**
- **Room G05**
<table>
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<tr>
<th>Title</th>
<th>Author(s)</th>
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<tr>
<td>The Adaptation of the US Residential Sector to Global Warming</td>
<td>Francois Cohen  - London School of Economics</td>
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<tr>
<td>Sustainable forest-based energy in Eurasia</td>
<td>Florian Kraxner, Ecosystems Services and Management Program (ESM), International Institute for Applied Systems Analysis (IIASA), Austria</td>
</tr>
<tr>
<td>Pathways to deep decarbonization in Italy</td>
<td>Maria Rosa Virdis, ENEA, Italy</td>
</tr>
<tr>
<td>Climate Resilience and reserves in the developing world</td>
<td>Mark Howells, Royal Institute of Technology(KTH)</td>
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</table>
Thursday, 2nd June 2016

**Day 2 – Plenary Session 1 (9.00 - 11.00)**

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Affiliation</th>
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<tbody>
<tr>
<td>9.00 – 9.40</td>
<td>Richard Richels</td>
<td>EPRI</td>
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<tr>
<td>9.40 - 10.20</td>
<td>Ambuj Sagar</td>
<td>Indian Institute of Technology</td>
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<tr>
<td>10.20 - 11.00</td>
<td>Jonathan O’Sullivan</td>
<td>Eirgrid</td>
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**Keynote Sessions**  
**Day 2 – Pathways**  
9.00 – 11.00, Room G05  
Moderator: Bob van der Zwaan (ECN)

**Day 2 - Parallel Session 1 (11.30-12.45)**

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| **Modelling Uncertainty**  
*Room G01*  
*Chair: Delavane Diaz (EPRI)*  
Rocco De Miglio, E4SMA srl  
New methodological approach for planning cities sustainable and resilient energy futures – the case of the InSMART project |
| **Environmental Taxes, Trade & Markets**  
*Room G02*  
*Chair: John Curtis (ESRI)*  
Blending under uncertainty: insights from the biofuels industry  
Hamed Ghoddusi, Stevens Institute of Technology |
| **Decarbonisation Pathways**  
*Room G03*  
*Chair: Massimo Tavoni (FEEM)*  
Impacts of fossil fuels extraction costs and carbon pricing on energy efficiency policies  
Nadia Maïzi, MINES ParisTech, Paris Science Lettres |
| **Power System Pathways**  
*Room G04*  
*Chair: Antonio Rodriguez Martinez (UAEM)*  
Hydropower externalities: A meta-analysis  
Mattmann Matteo, VU University Amsterdam/ Eawag Zurich |
| **Sustainable Development**  
*Room G05*  
*Chair: Mark Howells (KTH)*  
An indicative analysis of investment opportunities in the African electricity supply sector - Using TEMBA (The electricity model base for Africa)  
Constantinos Taliotis, KTH - Royal Institute of Technology |
| Interaction between CO₂ emissions trading and renewable energy subsidies under uncertainty: feed-in-Tariffs as a safety net against over allocation  
Giacomo Marangoni, FEEM / CMCC / Polytechnic of Milan  
From shared socio-economic baseline assumptions to CO₂ fossil fuels emissions |
| U.S. emissions and technology pathways toward 2050 goals: The role of temporal flexibility  
John Bistline, Electric Power Research Institute |
| The economics of policy instruments to stimulate wind power in Brazil: A CGE analysis  
Govinda Timilsina, World Bank |
| Cost and returns of renewable energy in Sub-Saharan Africa. A comparison of Kenya and Ghana  
Ana Pueyo, Institute of Development Studies |
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<tr>
<td>Chair: David McCollum (IIASA)</td>
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<td>Chair: Paul Deane (UCC)</td>
<td>Chair: Brian Ó Gallachóir (UCC)</td>
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- **Modelling Uncertainty**
  - **Sensitivity of modelling results to technological and regional details: The case of Italy’s carbon mitigation policy**
    - Gabriele Standardi, FEEM - Fondazione ENI Enrico Mattei
  - **An alternate methodology to sensitivity testing using stochastic modelling and the South African TIMES model**
    - Bryce McCall, Energy Research Centre

- **Environmental Taxes, Trade & Markets**
  - **Environmental policies that maximise social welfare: the role of intergenerational inequality**
    - Gonand Frédéric, University Paris-Dauphine
  - **Cost-efficiency of the EU Emissions Trading Scheme (EU ETS): An ex-post analysis**
    - Vicki Duscha, Fraunhofer Institute for Systems and Innovation Research

- **Decarbonisation Pathways**
  - **A multi-model method to analyse the economics of power-to-gas for renewable integration**
    - Paul Dodds, University College London
  - **Modelling investment in upstream gas and implications for future supply curves under different demand scenarios**
    - Daniel Crow, Imperial College London

- **Power Systems Pathways**
  - **The role of capital costs for decarbonizing the power sector**
    - Jan Steckel, Mercator Research Institute on Global Commons and Climate Change - TU Berlin-PIK
  - **Electricity grid and storage: complements or substitutes?**
    - Paul Neetzow, Carl von Ossietzky University Oldenburg, Humboldt University of Berlin

- **Behaviour & People**
  - **Actors behaving badly: modelling non-optimal behaviour in energy transitions**
    - Francis Li, UCL Energy Institute, University College London, Behaviour and People
  - **Endogenizing behavioural effects and infrastructure investments in COCHIN-TIMES model and their implications for climate policy analysis.**
    - Kalai Ramea, University of
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<th>Adapting long-lived infrastructure to uncertain and transient change</th>
<th>CO₂ mitigation for climate risk management</th>
<th>Evaluating the capacity of integrated assessment models to represent system integration challenges of wind and solar power</th>
<th>Time use, lifestyle and energy consumption: lessons from time use and budget data for French households</th>
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<tr>
<td>Marius Paschen, Carl von Ossietzky University Oldenburg</td>
<td>Geoffrey Blanford, EPRI</td>
<td>Robert Pietzcker, Potsdam Institute for Climate Impact Research (PIK)</td>
<td>Simona De Laurentis, CIRED / EDF R&amp;D</td>
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**Day 2 - Parallel Session 3 (15.45-17.00)**

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<tr>
<td>Room G01 Chair: Mariliis Lehtveer (Chalmers University of Technology)</td>
<td>Room G02 Chair: Vicki Duscha (Fraunhofer Institute for Systems and Innovation Research)</td>
<td>Room G03 Chair: Nadia Maizi (MINES ParisTech)</td>
<td>Room G04 Chair: Kenneth Karlsson (DTU)</td>
<td>Room G05 Chair: Francis Li (UCL)</td>
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<tr>
<td>Modelling to generate alternatives: A technique to explore uncertainty in energy-environment-economy models James Price, UCL Energy Institute</td>
<td>On the transition of Europe’s power market - Benefits of coordination Christoph Weissbart, ifo Institut</td>
<td>Swedish climate policy in 2050 - Does the targets need to be defined now? Erik Sandberg, Lulea University of Technology</td>
<td>Climate change policies and oil price effects on the Mexican electricity system in the medium and long term. Antonio Rodriguez Martinez, Engineering and Applied Sciences Research Centre, Universidad Autónoma del Estado de Morelos</td>
<td>Incorporating social influence effects into global integrated assessment models Hazel Pettifor, Tyndall Centre for Climate Change Research, University of East Anglia</td>
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<td>Integrated assessment of uncertain climate catastrophes: What does the risk of ice sheet disintegration imply for economic analyses of climate policy? Sara Giarola, Imperial College</td>
<td>Modelling gas transport capacity investments with limited knowledge on future markets</td>
<td>Environmental impacts of high penetration renewable energy scenarios for Europe Peter Berrill, NTNU/Yale</td>
<td>Transformation of the European Union’s power sector to 2030 – Adding value to IRENA’s REmap 2030 project using a European Electricity Model</td>
<td>Willingness to pay for solar home systems in Guinea Bissau: consumers’ preferences for different delivery models Maria Apergi, London School of</td>
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<td>Delavane Diaz, Electric Power Research Institute</td>
<td>London</td>
<td>Seán Collins, UCC</td>
<td>Economics and Political Science</td>
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<td>Quantifying uncertainties influencing the long-term impacts of oil prices on energy markets and carbon emissions</td>
<td>Consumption vs. production based CO₂ pricing policies: macroeconomic trade-offs and carbon leakage</td>
<td>The sensitivity of system cost and wind power revenues to sub-optimal investment in wind power capacity</td>
<td>The economic potential value of near- and offshore wind energy: An application to the Portuguese western coast</td>
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<td>David McCollum, International Institute for Applied Systems Analysis (IIASA)</td>
<td>Kurt Kratena, Centre of Economic Scenario Analysis and Research - CESAR</td>
<td>Joel Goop - Chalmers University of Technology</td>
<td>Ana Faria Lopes, NOVA School of Business and Economics</td>
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**Friday, 3rd June 2016**

**Day 3 – Plenary Session 1 (9.00 - 11.00)**

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<td>Diana Urge-Vorsatz</td>
<td>Central European University</td>
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<tr>
<td>9.40 - 10.20</td>
<td>Brian Motherway</td>
<td>IEA</td>
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<tr>
<td>10.20 - 11.00</td>
<td>Panel Discussion</td>
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**Keynote Sessions**

**Day 3 – People**

9.00 – 11.00, Room G05

Moderator: Massimo Tavoni (FEEM)

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**Day 3 - Parallel Session 1 (11.30 - 12.45)**

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<td><strong>Transport Pathways</strong></td>
<td><strong>Environmental Taxes, Trade &amp; Markets</strong></td>
<td><strong>Macro &amp; Socio Economic Impacts</strong></td>
<td><strong>Power System Pathways</strong></td>
<td><strong>Post Paris Pathways</strong></td>
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<td>Chair: Fionn Rogan</td>
<td>Chair: Gonand Frédéric</td>
<td>Chair: Alexander Golub</td>
<td>Chair: Govinda Timilsina</td>
<td>Chair: Socrates Kypreos</td>
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<td>(UCC)</td>
<td>(University Paris-Dauphine)</td>
<td>(The World Bank)</td>
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<tr>
<td>Modelling the role of transport infrastructure in a low-carbon world</td>
<td>Modelling climate mitigation and economic growth in relation to employment and skills in South Africa</td>
<td>Lifecycle energy demand and indirect greenhouse gas emissions of the electricity sector</td>
<td>Exploring pathways for fulfilment of Kazakhstan’s INDC targets</td>
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<td>Eoin O’ Broin, Centre international de recherche sur l'environnement et le développement (CIRED)</td>
<td>Jan Schneider, University of Oldenburd</td>
<td>Jules Schers, CIRED, ENPC, AgroParisTech</td>
<td>Bakytzhan Suleimenov, National Laboratory Astana at Nazarbayev University</td>
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<td>Implications of future freight demand growth for climate change mitigation</td>
<td>Can energy efficiency standards reduce priced and improve quality? Evidence from the US clothes washer market</td>
<td>Managing climate damages: exploring potential trade-offs</td>
<td>Resource diversity impacts on storage in a high variable renewable power system</td>
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<td>Matteo Muratori, Pacific Northwest National Laboratory</td>
<td>Michael Roberts, University of Hawaii at Manoa</td>
<td>Steven Rose, Electric Power Research Institute</td>
<td>Benjamin Lyseng, University of Victoria</td>
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<td>Nordic Energy Technology Perspectives - towards realising the Paris Climate agreement</td>
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<td>Markus Wråke, IVL Swedish Environmental Research Institute</td>
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<td>The role of carbon dioxide utilisation for transportation fuels in EU28 until 2050, an analysis using JRC-EU-TIMES</td>
<td>Wouter Nijs, Joint Research Centre of the European Commission, Institute for Energy and Transport</td>
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<td>Energy security scenarios of future Europe</td>
<td>Christophe Cassen, CIRED, France</td>
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<td>The macroeconomic impact of climate change mitigation action in Latin America: a model comparison</td>
<td>Tom Kober, Energy research Centre of the Netherlands, Netherlands</td>
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<td>Natural gas outlook for the Southern Cone: outcomes from an hourly basis TIMES natural gas &amp; power model</td>
<td>Mauro Chavez Rodriguez, Federal University of Rio de Janeiro</td>
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<td>Hybrid linking TIAM and IMACLIM-KLEM: Assessing technological mitigation pathways from INDCs towards 1.5C</td>
<td>James Glynn, University College Cork</td>
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Lunch time side events

Day 1 - 12:55 – 1:55 | Room G13

Informing the post-Paris deliberations with national-scale, transparent and long-term trajectories
Insights from the Deep Decarbonization Pathways Project (DDPP)

The post-Paris agenda is targeted to the twofold objective of following the short-term implementation of INDCs and organizing the increase of ambition in subsequent submissions every five year towards the 2°C goal. To inform effectively this process, national-scale pathways are needed, that are both explicit in the policy-relevant components of the transformations at the sectoral level, and provide benchmarks for the sequence of actions to be implemented towards the long-term decarbonisation of energy systems by the second half of the century.

The Deep Decarbonization Pathways Project (DDPP) supports the definition and analysis of such micro-century blueprints for change – the deep decarbonization pathways (DDPs) – in order to inform on the technical, economic, social and political conditions for countries to make 2C-compatible transition. Convened in 2013 by IDDRI and SDSN, the DDPP currently consists in domestic research teams from 16 countries representing 74% of 2010 GHG emissions. While considering the unique circumstances of each national economy given notably their different stages of development, the DDPs developed in the first phase of the project reach an aggregate 46-56% reduction of energy related CO2 emissions across the 16 countries over 2010 levels, which is broadly in line with the requirements for an even chance of remaining below a 2°C temperature rise.

This session presents the rationale of the DDPP and the analysis developed in 4 countries: United Kingdom, South Africa, Italy and Russia.
Lunch time side events

Day 2 - 12:50 – 1:50  | Room G13

Energy in the context of environmental and social sustainability: integrated approaches
EERA Joint Programme on “economic, environmental and social impacts of energy policies
and technologies (e3s)”  Chair: Maria Rosa Virdis

"FEW - Integrated Climate Change Mitigation Modelling for Food Security, Low Carbon Energy
and Sustainable Water Systems" – by Sofia Simoes and Julia Seixas (CENSE)
This will be a description for a modelling approach to support the co-management of water, land and
biomass resources under different future integrated climate change and socio-economic scenarios.
The approach brings together energy system models (TIMES), a global biophysical and
biogeochemical model including modelling of crop productivity and yield, a land use change model,
and an EU wide agricultural model. Besides describing the integrated modelling approach the
presentation discusses main challenges and ways to overcome these.

“Impact of the EU 2030 Climate and Energy Framework on the Nexus Water-Energy-Land in
Spain” - by Helena Cabal and Yolanda Lechon (CIEMAT):
An integrated assessment using two different and complementary methodologies is carried out to
analyse the impacts of the EU 2030 Climate and Energy Framework on the Nexus Water-Energy- Land
(WEL) in Spain. First, two scenarios are built: one Business as Usual scenario and one Target
scenario aimed to meet a plausible set of national energy and climate objectives by 2030. Using the
energy model TIMES-Spain, the composition of the electricity system by 2030 is obtained for both
scenarios. By means of the Life Cycle Assessment methodology, the most relevant impacts on the
WEL nexus of each technology and of each power system are estimated and discussed.
Lunch time side events

Day 2 - 12:50 – 1:50 (Cont.)

Energy in the context of environmental and social sustainability: integrated approaches
EERA Joint Programme on “economic, environmental and social impacts of energy policies
and technologies (e3s)”  Chair: Maria Rosa Virdis

“Energy and environmental impacts of biomass use in the residential sector: a case study for
Italy” by Maria Virdis and Maria Gaeta (ENEAA)
This paper shows how two models (TIMES-Italy and GAINS-Italy) can be used in soft linkage to assess
the energy and environmental impacts of the various fuels used for residential heating, in the
framework of a progressive decarbonization of the Italian energy system. A close look is taken to the
energy, environment and technological aspects of decarbonization policies and particularly at current
support policies to biomass in the thermal uses for heating purposes. The environmental impacts
considered include CO2 emissions as well as at the impacts on air quality of such atmospheric
pollutants as particulate matter (PM2.5).

“How to optimize the sustainable use of biomass” by Tiina Koljonen and Antti Lehtilä (VTT)
The Finnish Government has set ambitious targets to for the future Bioeconomy, i.e. to develop and
produce added value products from biomass, which is mainly coming from forests. At the same time
the Government has set the ambitious targets to increase the shares of renewables in energy and
transport, which also increases the demand of biomass resources. The paper shows the examples of
the integrated modelling approaches where the TIMES-VTT energy system model has been soft-linked
with the global forest sector model EFI-GTM (Kallio et al. 2004) and, on the other hand, with the
Finland’s forest sectoral models to analyse the impacts on the Finland’s greenhouse gas balance,
including the impacts on the LULUCF.

“Compatibility of the SE4ALL energy efficiency objective with renewable energy, energy
access, and climate mitigation targets” – by Jay Sterling Gregg (DTU):
The objectives of the Sustainable Energy for All (SE4ALL), a United Nations (UN) global initiative, are
to achieve, by 2030: 1) universal access to modern energy services; 2) a doubling of the global rate of
improvement in energy efficiency; and 3) a doubling of the share of renewable energy in the global
energy mix (United Nations, 2011; SE4ALL, 2013a). The purpose of this study is to determine to what
extent the energy efficiency objective supports the other two objectives, and to what extent the SE4ALL
objectives support the climate target of limiting the global mean temperature increase to 2° C over pre-
industrial times. To accomplish this, pathways are constructed for each objective, which then form the
basis for a scenario analysis using the Energy Technology System Analysis Program TIMES Integrated
Assessment Model (ETSAP-TIAM).
Lunch time side events
Day 3 - 12:50 – 1:50 | Room G13

OSeMOSYS (the Open Source energy MOdelling SYStem)
Chair: Abhishek Shivakumar

Agenda

12:50 – 13:00 Introduction

13:00 – 13:10 Latest code additions and enhancements

13:10 – 13:30 Latest applications

13:30 – 13:50 MoManl: an innovative browser-based linear optimisation interface

13:50 – 14:00 Development plan

OSeMOSYS (the Open Source energy MOdelling SYStem) is the most used fully open (programming language, solver and code) energy systems modelling software. It is an ideal teaching tool and an excellent entry-point into the world of optimisation tools. The side event will cover recent advancements in OSeMOSYS, applications, interfaces and forthcoming milestones.

Recent advancements will include an innovative browser-based interface, code to more accurately model storage, and the first multi-language implementation of an open energy modelling tool (with GAMS and Pyomo). The meeting will also report on applications, including modelling efforts for the World Bank, mapping indicative investment opportunities for countries across the entire African continent, an open model for stakeholder participation, and capacity building efforts with national governments.

Members of the community and all others are most welcome to attend.
Civic Reception at Cork City Hall
(19:00 – 20:30)
Wednesday 1st June 2016

A civic reception at Cork City Hall with a welcome address from the Mayor of Cork is planned for the first night of the conference where some light finger food and drinks will be served.

Cork City Hall (Irish: Halla na Cathrach, Corcaigh) is a civic building in Cork, Ireland which houses the administrative headquarters of Cork City Council.

The original Cork City Hall was destroyed on 11 December 1920 by the Black and Tans during the Irish War of Independence in an event known as the “Burning of Cork”.

Delegates are instructed to make their own way to the venue - for further information please go to the registration desk.

Conference Dinner at Ballymaloe House (19:00 – 22:30)
Thursday 2nd June 2016

Myrtle and Ivan Allen opened this Historic Country House, their home, to the public as a restaurant in 1968 and later as a guesthouse. Ballymaloe House continues to be run by the Allen family and now celebrates over 50 years of international recognition as the home of Irish Country cuisine and hospitality.

Ballymaloe House is located in East Cork and set deep within lush countryside accessible by tree lined avenues. Conde Nast Traveler Magazine included Ballymaloe House on their 2015 Gold List – the only Irish venue on this prestigious list of the World’s top 100 hotels.

Transport provided: buses departing from Western Gateway building and River Lee Hotel.

35th International Energy Workshop
UCC, Cork, Ireland
1-3 June, 2016
Slán go fóill
See you (later)

Thank you for participating in IEW 2016. We hope you will enjoy your stay in Cork and we hope to welcome you again in the future.

IEW 2016 ORGANISERS