

Workshop: **Creating the Business Case for Energy Efficiency: Engaging Governments with Industry**

Speakers and panellists biographies

Session 1: Putting the business case for energy efficiency into context
9:00 – 10:30

Moderator:

Mr. Hannes Mac Nulty

Sustainable Energy Solutions, BG Consulting Engineers

Hannes Mac Nulty is the Development Manager for Sustainable Energy Solutions with BG Consulting Engineers in Switzerland. He is also vice-chair of the United Nations Economic Commission for Europe's (UNECE) Group of Experts on Energy Efficiency. His main areas of work today are in the areas of international industry, buildings and Smart City initiatives, with a specific focus on bridging the communication gap between policymakers and the private sector on the topic of energy efficiency.



A mechanical engineer by qualification, Hannes has over 15 years of experience working as expert advisor on industrial energy efficiency to such organisations as the OECD, IEA and UN agencies, developing industrial and residential energy saving programs for the Irish Government, and working directly with international industry to implement energy efficiency projects that have a primary focus on energy management.

Speakers:

Mr. Ken Somers

Master Expert, Sustainability & Resource Productivity, McKinsey & Company

Ken Somers joined McKinsey in 2004 and is based in the Antwerp office. His main interests and activities are in the field of transformative industries, with a specific focus on operations, in particular resource productivity (Yield, Energy, and Technical debottlenecking) including use of advanced analytics in YET. He has primarily served major clients in transformative industries on a worldwide scale.

Ken leads the Resource Productive Operations service line within our Global MMP and SRP practices and has assessed the energy efficiency and yield of over 250 plants in the last 10 years. He co-leads the McKinsey Manufacturing Analytics group where he focusses on Yield, Energy and Throughput analytics. He is co-author of the book "Unlocking Industrial Resource Productivity".



Ken worked for 4 years at the IWT in the chemistry lab of Arnout Ceulemans at the KULeuven and obtained a PhD in theoretical chemistry (focus: protein modeling and spectroscopy). He also holds a Chemistry degree with "Great distinction" from the KULeuven, and an academic degree in Teaching

Ms. Vivien Foster

Global Lead for Energy Economics, Markets & Institutions, World Bank

Vivien Foster, a British national, joined the Bank in 1999 as a Young Professional. She previously worked as a Managing Consultant of Oxford Economic Research Associates Ltd in the UK, advising private and public sector clients in the water and energy industries, both in Europe and Latin America, focusing particularly on the economic regulation of utilities. She holds a Doctorate in Economics from University College London.



At the Bank, she worked as a Senior Economist in the Latin America Region and Lead Economist in the Africa Region, leading a wide range of analytical, operational and corporate engagements; often cutting across infrastructure sectors and working on the macroeconomic and fiscal interface. In particular, she led the Africa Infrastructure Country Diagnostic a path-breaking knowledge program that covered 40 African countries and produced a large suite of influential analytical reports. She was lead author of “Building Bridges” an innovative analysis of the Chinese role in Africa’s infrastructure development, as well as “Water, Electricity and the Poor” focusing on the design of tariffs and subsidies to preserve affordability of services to the poor.

Since 2012, Vivien has been Sector Manager for the Energy Anchor, and subsequently Practice Manager Strategy & Operations for the new Global Practice. She was a core member of the team that developed and secured Board consensus for the Energy Sector Directions Paper in 2013. She positioned the Bank as a Knowledge Hub for the Sustainable Energy for All initiative developing a program of data-driven flagship global knowledge products, including the Global Tracking Framework and Readiness for Investment in Sustainable Energy, in collaboration with numerous external agencies. She promoted knowledge management in the practice through the establishment of two new Communities of Practice for Energy Efficiency and Energy Access, and created the Live Wire series of knowledge notes as a fast track for sharing and disseminating knowledge.

In 2015, Vivien was appointed Global Lead for Energy Economics, Markets & Institutions.

Mr. Marco Matteini

Industrial Development Officer, UNIDO

Marco is Industrial Development Officer with the Industrial Energy Efficiency Division of UNIDO. He has 15 years of working experience in the development and implementation of international research and technical cooperation projects in the fields of renewable energy technologies and industrial energy efficiency.

Since 2007 Marco has been part of the UNIDO team who has been developing the UNIDO Global Programme on Energy Management System, leading and coordinating the development of relevant capacity building programs.



Marco has worked to the development and/or implementation of industrial energy management and efficiency technical cooperation projects in South Africa, Moldova, Russia, Azerbaijan, Macedonia, Turkey, Georgia, Armenia, Belarus and Kazakhstan.

Since 2008 Marco has been representing UNIDO in the ISO Project/Technical Committee 242 – Energy Management and now in ISO TC 301 – Energy Management and Energy Savings, where he has actively contributed to working groups’ activities and the drafting of ISO 50001 standard.

Marco holds a PhD in Electrical Engineering from the University of Bologna, Italy.

Mr. Oleg Dzioubinski

Energy Efficiency Programme Manager, UNECE

Oleg Dzioubinski is the Energy Efficiency Programme Manager at the Sustainable Energy Division of the United Nations Economic Commission for Europe (UNECE) in Geneva since 2008. The energy efficiency activities at the UNECE, which he leads, are aimed at helping significantly improve energy efficiency in the UNECE region. They include sharing best practices in selected economic sectors with specific focus on industry and buildings, addressing barriers to investments in energy efficiency, and supporting Global Energy Efficiency Accelerator Platform. He initiated organization of International Forum on Energy for Sustainable Development (originally International Energy Efficiency Forum) in 2010 – the Eighth Forum and the Energy Ministerial Conference will be held in Astana in June 2017.



His previous experience at the United Nations includes work at the Department of Economic and Social Affairs on sustainable development issues, 1997-2000, New York; at the Department of Public Information on cooperation with a community of NGOs, 2000-2003, New York; and at the UNECE Environment Division on environmental performance reviews of the countries of South-Eastern and Eastern Europe, Caucasus and Central Asia, 2003-2008, Geneva. Before joining the United Nations in 1997, he worked as a researcher at universities in Ukraine and the United States, as a TV journalist, and as a programme officer at US non-profit foundations in Ukraine. Oleg Dzioubinski holds Master of Science degree in Mechanical Engineering from the Mykolayiv Shipbuilding Institute (now National University of Shipbuilding), Ukraine (1986) and Master of Arts degree in Diplomacy and International Commerce from the University of Kentucky, United States (1994).

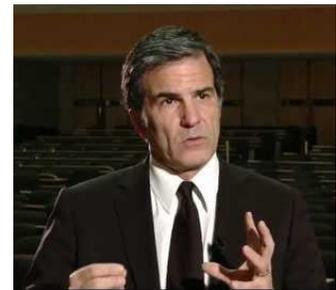
Session 2: Creating the business case begins with industry driven solutions 11:00 – 12:30

Moderator:

Mr. Scott Foster

Director, Sustainable Energy Division, UNECE

Scott Foster has been Director of UNECE's Sustainable Energy Division since 2011. With more than 35 years' experience in energy, Mr. Foster has worked extensively with governments, industry, and international organizations on energy policy, market design and regulation, and climate change strategies. Mr. Foster's particular focus recently has been assisting energy stakeholders address the critical challenges of sustainability, technology choice, and investment mobilization. Before founding Nomad Energy Consulting in 2004, Mr. Foster was VP of Global Regulatory Affairs with AES Corporation, Senior Director for Global Power with Cambridge Energy Research Associates (CERA), and Senior Expert on Electricity for the International Energy Agency. Mr. Foster holds a BA from Dartmouth College, an MS in Civil Engineering from Stanford University, and an MBA from UC Berkeley



Panellists:

Mr. Robert Hinrichs

Project Manager Sustainability - Global Engineering, Mondelez

More than 27 years of experience in project management and execution of complex international projects in food and beverages industry area of electrical engineering, automation & control, Manufacturing Execution Systems implementation and Energy Efficiency with constantly increased responsibilities.

Hold a Diplom (FH) degree in Electrical Engineering; Lean Six Sigma Black Belt (Austrian Institute for IL6S, 2012) and certified European Energy Manager (German Chamber of Commerce, 2010).

Actual focus is about development and implementation of energy conservation methods and programs in the supply chain organization of Mondelēz International (Snacks).



Ms. Roberta Boscolo

Energy and Climate Focal Point, World Meteorological Organization

Roberta Boscolo has a long experience in climate variability and change. For more than ten years, she has been working as science officer for the World Climate Research Programme. Her role was to coordinate scientific efforts worldwide to address the knowledge gaps in understanding Earth climate system. In particular, she lead a team of scientists advancing in the application of climate change research to develop climate adaptation strategies. This work contributed to shaping the vision of the Global Framework for Climate Services (GFCS) that is UN initiative lead by the World Meteorological Organization (WMO) aiming at enabling society to better manage the risks and opportunities arising from climate variability and change through the provision of science-based climate information and prediction. She is currently leading the WMO effort in implementing climate services for the energy sector especially in developing countries.



Ms. Natalia Jamburia

Chief Expert, Ministry of Energy, Georgia

Natalia Jamburia is a chief specialist in the Energy Efficiency and Alternative Energy division at the Ministry of Energy of Georgia. Her professional activities involve supporting the elaboration of energy efficiency policy and promotion of energy efficiency improvement, as well as implementing the projects supporting sustainable energy development in the country.

Over the past four years Natalia was actively involved in elaboration of different EE policy papers, one of her major activities is active participation and coordination the development of Georgia's first National Energy Efficiency Action Plan, which is being prepared through the technical assistance program of EBRD, as well as "Consultancy program for supporting Energy Efficiency and Sustainable Energy Development in Georgia", funded by the Danish Government. She was also involved in elaboration of Low Emission Development Strategy for Georgia (USAID project for Georgia).



Since October, 2016 Natalia is a member of the Bureau of the UNECE Group of Experts on Energy Efficiency, which is focusing on promoting energy efficiency in UNECE region. She is also a member of Renewable Energy Coordination Group of Experts at the Energy Community Secretariat and works for approximation of Georgia's RE and EE legislation to the EU acquis. She has extensive experience on managing energy efficiency projects, before joining the Ministry of Energy she worked at the Energy Efficiency Centre Georgia (NGO) as projects' assistance in the field of sustainable energy.

Natalia Jamburia holds Master of Engineering Science Degree in Thermal Power Engineering from the Georgian Technical University.

Mr. Maxim Titov

Executive Director, ENERPO Research Center, European University at St. Petersburg, Russian Federation

Maxim Titov joined the European University at St. Petersburg in 2016 as an Executive Director of the Energy Policy Research Center (ENERPO). ENERPO Research Center is a think tank with strong focus on policy development and advocacy for sustainable development, climate change and energy efficiency.



From 2003 to 2015 Maxim Titov used to work for the International Finance Corporation, World Bank Group, where he continuously held managerial positions with strong focus on sustainability and climate finance in Eastern Europe, North Africa and the Middle East.

Prior to the World Bank Group Maxim was a lawyer in large international FMCG investment project and a legal adviser at one of the leading international law firm operating in Russia.

Maxim Titov graduated from St. Petersburg State University, Faculty of Law. As a part of his professional development, Maxim completed the "Economics of Climate Change" course at the University of Cambridge (UK), the course on Project Management at the Georgetown University (US), and the Global Business Leadership Program at INSEAD (France).

Mr. Robert Tromop

Independent Expert, New Zealand

Partner in Efficient Energy International Ltd. Consulting in market strategy, capacity building, evaluation and sustainable energy.

Until 2014, Robert was Head of Energy Efficiency at the International Energy Agency. Key outputs included Energy Efficiency Market Report, Multiple Benefits of Energy Efficiency, Regional Energy Efficiency Policy Recommendations, cross-sector and sectoral policy analysis in a series of Policy Pathways and sector focused projects in buildings, appliances, industry and transport.



Prior to this Robert was Manager Monitoring and Research for the New Zealand Energy Efficiency & Conservation Authority (EECA). This involved leading monitoring and analysis of programme design and performance and, tracking changes energy efficiency and renewable energy across the New Zealand economy, development and operation of economic analysis tools for policy design and evaluation.

Robert's international energy efficiency experience includes IEA and APEC energy efficiency committees and programmes, and development of the APEC PREE review process with the APEC Energy Working Group Secretariat. Until 2005, he led New Zealand's product efficiency regulatory programme, and held roles in the development of New Zealand's first National Energy Efficiency and Conservation Strategy. Robert has a Master's Degree in Mechanical Engineering.

Moderator:

Mr. Aleksandar Dukovski

Director, Energy Agency of the Republic of Macedonia

Aleksandar Dukovski holds the position of the Director at the Energy Agency of Republic of Macedonia, in addition, he also holds the position of Chairman of The Group of Experts on Energy Efficiency (GEEE) of UNECE (United Nations Economic Commission for Europe).

The focus on his work is regulatory and policy dialogue addressing financial, technical and policy barriers to improve energy efficiency and renewable energy. In addition, he consults governments, NGOs and private enterprises in technical/legal issues regarding promotion of clean technologies, best practices in the field of energy efficiency, strengthening institutional capacity in energy and guidance in policy for sustainable development.



Before joining the Energy Agency, Aleksandar worked as an energy efficiency & renewable energy consultant on several projects and was the co-founder and Technical Director of Énergie du Soleil, a commercial photovoltaic developer. He has a Master 2 research degree in Electrical engineering from École polytechnique de l'université de Nantes and an Electrical engineering degree from "Ss. Cyril and Methodius" University, Skopje - Faculty of Electrical Engineering and Information Technologies.

Panellists:

Mr. Mikhail Akim

Director of Strategic Development, ABB Russia

Mr. Sergey Morozov

Specialist of operational improvement department, ArcelorMittal

Sergey Morozov is a specialist on operational improvements with ArcelorMittal Temirtau. He graduated in 2012 from Karaganda State Technical University, with a Bachelor of energy. He is also a qualified metrological engineer. Morozov has been working in the field of energy saving in ArcelorMittal Temirtau's coal mines since 2014, where one of the key focus areas is the utilization of methane gas produced in the mines.

Mr. Matija Vajdić

Senior Researcher, Energy Institute Hrvoje Požar, Croatia

Matija Vajdić works as a Senior Researcher at the Energy Institute Hrvoje Požar. He manages technical and financial analyses of various types of energy efficiency projects. During his carrier, he

has consulted clients ranging from ministries, governmental institutions and agencies, international development organizations, international and commercial financial institutions and funds. He has nine years of experience working and collaborating with multidisciplinary teams on energy data analysis, energy auditing, technical assessments of EE and RES projects and feasibility studies. He had worked for five years for the UNDP on a GEF funded project "Removing Barriers to Energy Efficiency in Croatia". Together with his team he had been working on implementation of EE technologies in Croatian public sector and development of Energy management information system (EMIS). He holds a Master's degree in Power Engineering from Faculty of Electrical Engineering and Computing and at the moment studies Energy Economics at the Faculty of Economics. His native languages are Croatian and Slovenian; he also speaks English and understands German and Russian.



Mr. Kostiantyn Gura

Acting Director, State Company Subdivision "Green Investment Development Center", State Agency on Energy Efficiency and Energy Saving of Ukraine



Mr. Almat Kabykenov

Director, Center of expertise, management and monitoring of projects, JSC "Electric power and energy saving development institute (Kazakhenergoexpertise)", Kazakhstan

Almat Kabykenov is the Director of the Center of Expertise, management and monitoring of projects at JSC "Electric power and energy saving development institute" which is fully belong to the Ministry of investment and development Republic of Kazakhstan. He is a valuable asset for the Institute and as a director Almat guiding the team to ensure of development energy service market in Kazakhstan through implementing ESCO and PPP mechanisms. He has been geared his focus and interests towards attracting investment in energy efficiency sector.

In 2016 he obtained a Master degree in Environmental sciences at Wageningen University (the Netherlands) with course work focusing on environmental management in industry, energy efficiency, sustainable development, evaluation and analysis of environmental policy, environmental quality and governance, corporate social responsibility.

Almat has solid experience in the oil and gas industry in companies such as ConocoPhillips, Schlumberger where he has been able to have a positive and profound impact. He has a comprehensive understanding of the process of environmental policy making, its analysis and evaluation, implementation of energy management system against ISO 50001 as well as implementation environmental management system against ISO 14001, health and safety management systems OHSAS 18001, emission trading scheme, how to carry out a pollution prevention projects, life cycle management and assessment, eco labels.

Mr. Zlatko Pavicic

Independent Expert, Croatia

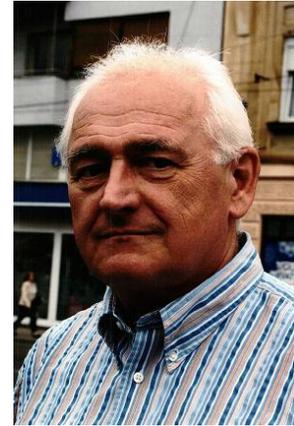
Zlatko Pavicic graduated in economics of international trade and in electromechanical engineering from Zagreb University. For a number of years he has worked in Koncar as a project manager in the metallurgy sector, after which he became the Head of the Department of Representation and Consignment Stock for companies in the field of industrial electronics and CAD / CAM computer equipment.

In the 1990's, he was the Head of the Department for Inorganic Chemicals, Ores and Nonmetals. Then he worked as a product area manager on the European Union and USA market in Končar - D & ST' sales department for distribution and special transformer.

In 1994, he became the Head of the Croatian Chamber of Economy Promotion Department, and in 1996 – the Head of Department for Industry and Small Business in Zagreb Chamber of Commerce. Encouraged the idea of economy development based on industrial clusters, he is the author of several studies on clusters and held lectures around the country from Zagreb to Vukovar. His ideas for Croatian Industrial Clusters have been recognized and proposed by the International Consultative Group to the Croatian Ministry of Economy, Labor and Entrepreneurship. In addition, he held several lectures on business ethics, time management and promotion. He has organized a number of international exhibitions of Croatian companies at international trade fairs in the field of energy, mining and has participated in numerous professional conferences.

He participated in the missions of the Croatian economy in USA, China, Turkey, South Korea, France, South Africa, the Czech Republic, Slovakia, the Netherlands and Poland. In 2008, he became the project manager for the development of new battery-powered underground mining machines and cooperated with Anglo-American company from South Africa.

He finished his business career at the Ministry of Economy where he was the Head of Energy Efficiency Department and participated in drafting new laws on energy efficiency and leading the NER300 project. He has been a member of the UNECE Group of Experts on Energy Efficiency since 2014 and currently is a Vice Chair of its Bureau.



Session 3: Creating the business case begins with industry driven solutions

14:00 – 15:30

Moderator:

Mr. Tim Farrell

Senior Advisor, Copenhagen Centre on Energy Efficiency

Tim Farrell is a Senior Advisor at the Copenhagen Centre on Energy Efficiency, which also serves as the Energy Efficiency Hub for the Sustainable Energy for All (SEforALL) initiative. Tim is contributing to the Sustainable Development Goal 7's ambitious target of doubling energy efficiency improvement by 2030 by promoting best practices in energy efficiency, supporting the Global Energy Efficiency Accelerator Platform, developing a knowledge platform and facilitating global collaborations.

One of Tim's activities over the three years was his role as Chair and now a Vice Chair of the United Nations Economic Commission for Europe's



(UNECE) Group of Experts on Energy Efficiency focusing on promoting energy efficiency in its 56 member States.

Prior to joining Copenhagen Centre Tim had spent seven years developing energy efficiency policies and programs in Australia, Southeast Asia and the Pacific. Tim initiated the Pacific Appliance Labelling and Standards (PALS) Program that is delivering energy efficiency, energy security, financial savings and other multiple benefits to the Pacific Region.

Speakers:

Mr. William McLaughlin

International Lead EnMS Expert, UNIDO

Liam McLaughlin is the Chief Technical Officer with GEN Europe, an independent energy efficiency and energy management systems consultancy with offices in Ireland and Spain. He has worked in energy efficiency for the past 25 years, initially as an energy manager in industry and since 2001 as an independent consultant. He works with large energy using clients in industry, commerce and the public sector internationally.

He has specialised in energy management systems and ISO 50001 in recent years. He is a member of the ISO committee that wrote ISO 50001. He is the lead international expert with the United Nations Industrial Development Organisation (UNIDO) on energy management systems. He also works on training and development with ISO on ISO 50001. He has written 2 guide books on energy management system implementation, one for UNIDO and the other for ISO/ITC/UNIDO. He has a very specific interest in research into the benefits of better approaches into energy performance measurement.



Ms. Kankana Dubey

Senior Research Associate, KAPSARC

Kankana Dubey is a senior research associate at KAPSARC working on energy productivity in the GCC and macroeconomic perspective on energy and economic development in India.

Her work focuses on energy productivity, economic growth and developing energy policy tool kits for government action. Kankana has an M.Sc in Energy Management from the University of Stirling, UK.

Mr. Stefan Büttner

Head of International Affairs & Strategy, Institute for Energy Efficiency in Production

Stefan M. Buettner is Head of International Affairs and Strategy at the Institute for Energy Efficiency in Production (EEP, Stuttgart, Germany), for which he is member of the Energy Efficiency Financial Institutions Group of EU Commission & UNEP FI. He also works on a global policy & industry benchmark, called 'The Energy Efficiency Barometer of the Industry' and is a member of the SE4All Industrial Energy Efficiency Accelerator. He is a Vice Chair of the Bureau of the UNECE Group of Experts on Energy Efficiency. Mr. Buettner co-led the secretariat of the German Federal Government's Stakeholder Platform on Energy Efficiency until he was partially seconded as Senior Policy Advisor to IPEEC-International Partnership for Energy Efficiency Cooperation that has been tasked by the G20 summit in 2014 to coordinate the implementation of its Energy Efficiency Action Plan. At



IPEEC, Mr. Buettner had a focus on the G20, G7 and IPEEC activities related to Industry, Technologies, and Financial Flows for Energy Efficiency, where he was a member of the Secretariat of the G20 Energy Efficiency Finance Task Group.

Mr. Buettner has expertise in low carbon innovation, smart cities, islands and mobility, as well as in energy productivity strategies through his work as Associate of the Edinburgh Centre for Carbon Innovation (ECCI, Scotland) and a member of the Scottish Sustainable Energy for All Platform.

Over the period of seven years, he worked as senior parliamentary advisor and office manager for various members of the Scottish Parliament, giving advice on energy efficiency, renewable energy, industrial and economic policy, as well as on skills and infrastructure. He is a member of the International Steering Committee of the Energy Efficiency Global Forum and was International Advisor and Co-Author of the US Energy Strategy “Energy 2030” notably in the areas “Systems Integration”, “Transport, Land Use & Accessibility” and “Residential & Commercial Buildings”. As an international low carbon expert, he is involved in many other international high-level initiatives, working groups and workshops.

He studied International Economics in Tübingen, Germany and Boston, United States and held various positions optimizing processes and programmes in the academic environment.

Mr. Aleksandar Dukovski

Director, Energy Agency of the Republic of Macedonia

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