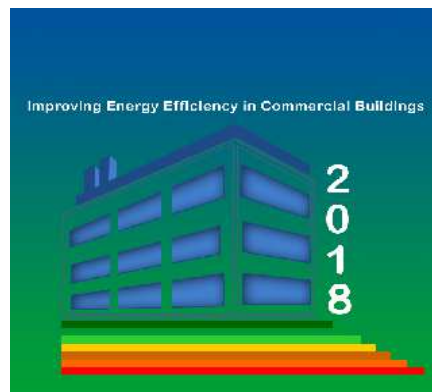


# Improving Energy Efficiency in Commercial Buildings & Smart Communities Conference

Frankfurt 21 – 22 March 2018



Wednesday, 21 March		
09:00-11:00	<p><b>Session 1.a Cities I</b></p> <p><i>Chair: <b>Renee Clair</b></i></p> <p>Breakthrough Community Energy and Climate Planning in Canada – City of Windsor, Ontario  <i><b>Peter Garforth, Karina Richters, Gerd Fleischhammer, Oliver Baumann</b></i>  <i>Garforth International llc, Toledo, Ohio (USA)</i></p> <p>Implementation of Energy Strategies in Communities  <i><b>Helmut Strasser</b></i>  <i>SIR – Salzburger Institut für Raumordnung und Wohnen (Austria)</i></p> <p>Energy optimization on district level  <i><b>Oliver Ottinger, Jürgen Schnieders, Harald Malzer, Laszlo Lepp</b></i>  <i>Passive House Institute (Germany)</i></p> <p>Automated energy concept derivation from 3D urban district modelling  <i><b>Sally Kohler, Jonas Stave, Verena Weiler, Maximilian Haag, Ursula Eicker</b></i>  <i>Zentrum für Nachhaltige Energietechnologie - zafh.net (Germany)</i></p>	<p><b>Session 1.b Lighting 1</b></p> <p><i>Chair: <b>Sermin Onaygil</b></i></p> <p>Electric lighting predictions in the energy calculation methods  <i><b>Francesco De Luca, Raimo Simson and Jarek Kurnitski</b></i>  <i>Department of Civil Engineering and Architecture</i>  <i>Tallinn University of Technology (Estonia)</i></p> <p>Minimizing energy consumption for artificial lighting in classroom aiming for a nZEB using LED luminaires and daylight harvesting: The potential of Greek classrooms  <i><b>L.T. Doulos, A. Kontadakis, A. Tsangrassoulis</b></i>  <i>University of Thessaly, Dept. of Architecture, Volos (Greece)</i></p> <p>The impact of lighting systems on healthy, energy efficient and smart buildings  <i><b>Ourlia Georgoutsakou, Annette Steinbusch, Axel Baschnagel</b></i>  <i>LightingEurope (Belgium)</i></p> <p>EU Financed Life-Diademe Project: additional Energy Savings in street lighting by means of IoT Sensors  <i><b>Di Lecce P., Mancinelli A., Trentini M., Rossi G., Frascarolo</b></i>  <i>Reverberi Enetec (Italy)</i></p>

# Improving Energy Efficiency in Commercial Buildings & Smart Communities Conference

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11:00-11:30	Coffee Break	
11:30-13:00	<p><b>Session 2.a Policies I</b></p> <p>Chair: <b>Ourania Georgoutsakou</b></p> <p>National Energy Efficiency and Renewable Energy Action for Lebanon  <b>Rami Fakhoury, Rani Al Achkar</b>  <i>Lebanese Center for Energy Conservation (LCEC) (Lebanon)</i></p> <p>Economic Appraisal of introducing Energy Efficiency in the Public Sector: Overview of Existing economic methods with ex-post application to Sustainable Energy Management program in Croatia  <b>Mia Dragović, Marko Matosović</b>  <i>Institute for European Energy and Climate Policy (Netherlands)</i></p> <p>A Database of Energy Use and potential Savings in European SMES  <b>Neil Brown, Paul Fleming, Nicoletta Favaretto, Ahad Arshad</b>  <i>Institute of Energy and Sustainable Development, De Montfort University (UK)</i></p>	<p><b>Session 2.b Building Technologies</b></p> <p>Chair: <b>Lambros Doulos</b></p> <p>The German Sustainable Building Council (DGNB)  <b>Anna Braune</b>  <i>Deutsche Gesellschaft für Nachhaltiges Bauen – DGNB e.V. (Germany)</i></p> <p>Technological quality in process innovation for energy-renewable buildings  <b>Consiglia Mocerino</b>  <i>Faculty of Architecture, Sapienza University of Rome-Miur (Italy)</i></p> <p>BACS in the new Energy Performance of Buildings Directive: paving the way for efficient, smart and healthy buildings  <b>Peter Hug, Simone Alessandri</b>  <i>European Building Automation and Controls Association (eu.bac) (Belgium)</i></p>
13:00-14:00	Lunch Break	

# Improving Energy Efficiency in Commercial Buildings & Smart Communities Conference

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<p><b>14:00-15:30</b></p>	<p><b>Session 3.a Building Examples I</b></p> <p><i>Chair: <b>Peter Garforth</b></i></p> <p>Technical and Business Models for Deep Energy Retrofit of Public Buildings- Findings of EBC Annex 61  <i><b>Rüdiger Lohse, Alexander Zhivov</b></i>  <i>KEA Climate Protection and Energy Agency Baden-Württemberg GmbH (Germany)</i></p> <p>Energy Management and Performance of a Renewable Energy System in a Rural Hotel  <i><b>Teodor Pulido, Joan Carlos Bruno</b></i>  <i>Universitat de Girona, Mechanical Engineering &amp; Industrial Construction Department (Spain)</i></p> <p>Building Integrated Photovoltaic Systems as a sustainable option for retrofitting of office buildings in South East Europe  <i><b>Anna Serasidou, Georgios Martinopoulos</b></i>  <i>School of Science and Technology, International Hellenic University (Greece)</i></p>	<p><b>Session 3.b Behaviour, Audits &amp; Commissioning</b></p> <p><i>Chair: <b>Neil Brown</b></i></p> <p>COPILOT supervised commissioning of commercial buildings – from pre-design to post-delivery  <i><b>Cormac Ryan</b></i>  <i>COPILOT Building Commissioning Solutions (France)</i></p> <p>GREPCon: an independent and standardized assessment of energy efficiency building renovations in the tertiary sector  <i><b>Paolo M. Sonvilla, Pedro L. Espejo, Javier Lemus, Theocharis Tsousos</b></i>  <i>Creara Consultores (Spain)</i></p> <p>Challenges and opportunities for widening participation in order to improve energy efficiency in commercial buildings  <i><b>Richard Bull, Kathryn B. Janda</b></i>  <i>Institute of Energy and Sustainable Development (IESD) (UK)</i></p>
<p><b>15:30-16:00</b></p>	<p><b>Coffee Break</b></p>	

# Improving Energy Efficiency in Commercial Buildings & Smart Communities Conference

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<p><b>16:00-18:00</b></p>	<p><b>Session 4a ESCO I</b></p> <p><i>Chair: <b>Dragon Volker</b></i></p> <p>Approach and decision process for sustainable retrofitting of public and commercial buildings  <i><b>Enrique Grosser, Kinga Horváth</b></i>  <i>EnergSys Inc (Hungary)</i></p> <p>Asset Class Energy Efficiency  <i><b>Rüdiger Lohse, Diana Wang, Kai Schinck</b></i>  <i>KEA Climate Protection and Energy Agency Baden-Württemberg GmbH (Germany)</i></p> <p>Development of quality assessment schemes for energy efficiency services  <i><b>Daniela Bachner, Geert Goorden</b></i>  <i>Factor4 (Belgium)</i></p> <p>The Role of Cloud Based Services in Energy Performance Contracts  <i><b>Joan Vidal</b></i>  <i>Honeywell Building Solutions (Spain)</i></p>	<p><b>Session 4.b Building Automation, ICT, Control</b></p> <p><i>Chair: <b>Oliver Ottinger</b></i></p> <p>Buildings which can speak to us and thinks and shares their data  <i><b>Soner Hacihaliloglu</b></i>  <i>BEAD – Building Energy Analysis Device (Turkey)</i></p> <p>Well Being &amp; Sustainability: Focusing on Buildings beyond Energy Efficiency  <i><b>Gayathri Unnikrishnan</b></i>  <i>International Well Building Institute, New York (USA)</i></p> <p>Barriers to implementing an ICT-based behaviour change programme in commercial buildings  <i><b>Ashley Morton, Andrew Reeves, Richard Bull</b></i>  <i>Institute of Energy and Sustainable Development (IESD) (UK)</i></p> <p>Smart Services in Buildings: An early insight into business models based on IoT, sensors and actuators  <i><b>Detlef Olschewski, Gary Fragidis</b></i>  <i>Cleopa GmbH (Germany)</i></p>
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# Improving Energy Efficiency in Commercial Buildings & Smart Communities Conference

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Thursday, 22 March	
<p><b>09:00-11:00</b></p>	<p><b>Session 5.a HVAC &amp; Windows</b></p> <p><i>Chair: <b>Consiglia Mocerino</b></i></p> <p>Simulation and Evaluation of HVAC and Renewable based Scenarios for Building and District Renovations  <i>Luciano De Tommasi, Michele Garraffa, Diana Manjarres Martinez, Nekane Hermoso Matrinez, Xabat Oregi Isasa, Hassan Ridouane, Lara Mabe Gomez</i>  <i>United Technologies Research Centre (Ireland)</i></p> <p>Control and monitoring solutions for HVAC systems with implementation of machine learning techniques for energy saving: a real case  <i>Fabio Ferrari, Simone Stancari, Andrea Pagan</i>  <i>CAREL INDUSTRIES S.p.A. (Italy)</i></p> <p>Imaf Project: Natural ventilation using intelligent window systems with innovative acoustic optimisations  <i>Erhart T., Lust D., Offtermatt D., Reinhold S., Zeitler B., Eicker U., Cremers J</i>  <i>Centre for Sustainable Energy Technology Research (zafh.net) (Germany)</i></p> <p>Energy Performances of Window Films in European Climates  <i>Stéphanie Priou</i>  <i>EWFA (European Window Film Association) (Belgium)</i></p>
	<p><b>Session 5.b Monitoring</b></p> <p><i>Chair: <b>Paolo Bertoldi</b></i></p> <p>Bridging the Gap between System Operation Data and Actual Energy Performance  <i>Johannes Bracke, Ben Burgoyne, Lutz Miersch</i>  <i>BAUMANN Consulting (Germany)</i></p> <p>Addressing the gap between calculated and actual energy performance in deep renovations  <i>Robert Cohen, Greg Waring</i>  <i>Verco Advisory Services (UK)</i></p> <p>Energy consumption monitoring and building performances in a commercial building – Case study  <i>Elena Camelia Tamaş</i>  <i>Technical University of Civil Engineering Faculty of Building Services (Romania)</i></p> <p>The surprising results of three years monitoring of a Community Centre in London refurbished to the full Passive House standard  <i>Bere Justin</i>  <i>Bere: architects (UK)</i></p>
<p><b>11:00-11:30</b></p>	<p><b>Coffee break</b></p>

# Improving Energy Efficiency in Commercial Buildings & Smart Communities Conference

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<b>11:30-13:00</b>	<p><b>Session 6.a Policies II</b></p> <p><i>Chair: <b>Mia Dragovic</b></i></p> <p>Energy Efficiency Indicator Study <i><b>Renee Clair</b></i> <i>Global Energy &amp; Sustainability Johnson Controls (USA)</i></p> <p>Practices and opportunities for Energy Performance Contracting in the public sector in EU Member States <i><b>Boza-Kiss Benigna, Zangheri Paolo, Bertoldi Paolo, Economidou Marina</b></i> <i>European Commission Joint Research Centre</i></p> <p>Minimizing cost of energy efficiency savings targets – residential sector's investment choices <i><b>Marko Matosović</b></i> <i>Energy Institute Hrvoje Požar (Croatia)</i></p>	<p><b>Session 6.b Lighting II</b></p> <p><i>Chair: <b>Consiglia Mocerino</b></i></p> <p>Daylight-linked control systems: a new method to assess their performances <i><b>Laura Bellia, Francesca Fragliasso</b></i> <i>DII - Università di Napoli Federico II (Italy)</i></p> <p>PremiumLight_Pro – Next level energy efficient lighting systems in the service sector <i><b>Christof Horvath, Bernd Schäppi</b></i> <i>Austrian Energy Agency (Austria)</i></p> <p>Financing models for energy-efficient urban street lighting <i><b>Aleksandra Novikova, Matthias Hessling, Kateryna Stelmakh</b></i> <i>Ernst-Moritz-Arndt-Universität Greifswald / Institute for Climate Protection, Energy and Mobility (IKEM) (Germany)</i></p>
<b>13:00-14:00</b>	<b>Lunch break</b>	

# Improving Energy Efficiency in Commercial Buildings & Smart Communities Conference

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<b>14:00-15:30</b>	<p><b>Session 7.a Building Examples II</b></p> <p><i>Chair: <b>Stephanie Priou</b></i></p> <p>Koksijde: environmental Flagship <i>Camille Chapalain, Jan Geeraerts</i> CARREFOUR BELGIUM (Belgium)</p> <p>Energy saving in large-scale commercial activities through a plant supervised management <i>Guido Francesco Frate, Lorenzo Ferrari, Umberto Desideri, Nicola Bosi, Francesco Sorbi, Pietro Saloi</i> Department of Energy, Systems, Territory and Construction Engineering (DESTEC) University of Pisa (Italy)</p> <p>Retrofitting supermarkets towards CO2 emission reduction <i>Javier Llorente Yoldi, Sergio Díaz Garayo</i> CENER, National Renewable Energies Centre (Spain)</p>	<p><b>Session 7.b Demand Response</b></p> <p><i>Chair: <b>Paolo Bertoldi</b></i></p> <p>Demand side management potentials in the services sector – empirical study on 4 European countries <i>Ulrich Reiter, Robin Peter, Katharina Wohlfarth, Martin Jakob</i> TEP Energy GmbH (Switzerland)</p> <p>Day-ahead multi-objective energy optimization of a smart building in a dynamic pricing scenario <i>M. Botticelli, G. Comodi, A. Monteriù, A. Pallante, S. Pizzuti</i> Energy, New Technologies and Sustainable Economic Development Agency (ENEA) (Italy)</p> <p>Cost-curves for heating and cooling demand reduction in services sector buildings <i>Ulrich Reiter, Andrea Palacios, Giacomo Catenazzi, Martin Jakob</i> TEP Energy GmbH (Switzerland)</p>
<b>15:30-16:00</b>	<b>Coffee break</b>	

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<p><b>16:00-18:00</b></p>	<p><b>Session 8.a ESCO II</b></p> <p><i>Chair: <b>Ulrich Reiter</b></i></p> <p>The new Eurostat Guidance Note on the recording of EPC in Government Accounts: a real game changer <i>Christian Spengler, Simone Alessandri</i> European Association of Energy Service Companies (eu.esco) (Belgium)</p> <p>RenoWatt, a one-stop-shop for public authorities <i>Erika Honnay</i> GRE-Liege (Belgium)</p> <p>From ESCO to RESCO: How to transform an Energy Servicing Company (ESCO) into a Resource Efficiency Servicing Company (RESCO). Chances and challenges for new business models <i>Martina Occelli</i> Cleopa GmbH (Germany)</p>	<p><b>Session 8.b Cities II</b></p> <p><i>Chair: <b>Juan Carlos Bruno</b></i></p> <p>Buildings efficiency models and the optimization of the district heating network for low-carbon transitions cities <i>Elisa Guelpa, Guglielmina Mutani, Valeria Todeschi, Vittorio Verda</i> Politecnico di Torino, Department of Energy (Italy)</p> <p>The Cassandra Project_First smart city from scratch in Spain <i>Marciano Sánchez Cabanillas, Alfredo L. Peña, Sergey Tsakunov</i> THE CASSANDRA PROJECT (Spain)</p> <p>Living in a smart building <i>Ines Clarissa Weigl, Andreas Schuster</i> Aspern Smart City Research (Austria)</p> <p>Assessment of the Covenant of Mayors and Aggregate GHG Emission Reduction at 2050 <i>Paolo Bertoldi</i> European Commission Joint Research Centre</p>
<p><b>18:00</b></p>	<p><b>End of conference</b></p>	