

Title	Paper or abstract	Main author	Organisation	Country
<b>PANEL 1. POLICIES AND PROGRAMMES TO DRIVE TRANSFORMATION</b>				
Bridging the valley of death: A multi-staged multi-criteria decision support system for evaluating proposals for large-scale energy demonstration projects as public funding opportunities	Peer-reviewed paper	Simon Hirzel	Fraunhofer Institute for Systems and Innovation Research ISI	Germany
Collaborative Efforts: How voluntary organizations changed energy efficiency programs in the US	Extended abstract	Sergio Dias	Sergio Dias Consulting	Spain
Effects of the energy audit obligation for large companies in Germany	Peer-reviewed paper	Michael Mai	IREES, Institute for Resource Efficiency and Energy Strategies	Germany
Energy Efficiency networks – first results from the monitoring process	Extended abstract	Clemens Rohde	Fraunhofer Institute for Systems and Innovation Research	Germany
Energy Efficiency Networks: lessons learned from Germany	Peer-reviewed paper	Antoine Durand	Fraunhofer Institute for Systems and Innovation Research	Germany
Energy Efficiency Regulations for Cement and Paper Industries based on Maximum Specific Energy Consumption	Peer-reviewed paper	Tze-Chin Pan	Industrial Technology Research Institute	Taiwan
EU 28 Industry Policies – The EED three years later	Extended abstract	Tiago Serrenho	DG Joint Research Centre Directorate for Energy, Transport and Climate Energy Efficiency and Renewables Unit	Italy
Feedback on White certificate on an industrial process: all-electric injection molding machines	Peer-reviewed paper	Marc Berthou	EDF R&D, Département TREE	France
French SMEs: Towards Carbon Neutrality	Extended abstract	Antoine Bonduelle	E&E Consultant SARL	France
Further development of policies to enhance energy efficiency in the EU industry sector	Extended abstract	Sonja Kotin-Förster	Ecofys	Germany
History and prospect of voluntary agreements on industrial energy efficiency in Europe	Peer-reviewed paper	Erwin Cornelis	TRACTEBEL ENGINEERING S.A	Belgium
Integrating Smart Manufacturing and Strategic Energy Management Programs	Peer-reviewed paper	Ethan Rogers	American Council for an Energy-Efficient Economy (ACEEE)	USA
Less hot air for a less hot climate – Evaluating the German waste heat reduction programme	Peer-reviewed paper	Fabian Voswinkel	Fraunhofer Institute for Systems and Innovation Research	Germany
Machine tools: 12 Points – Catching complexity in Ecodesign	Peer-reviewed paper	Tim Hettesheimer	Fraunhofer Institute for Systems and Innovation Research	Germany
Market-based instruments for energy efficiency – can they support the energy efficiency industry?	Extended abstract	Jan Rosenow	The Regulatory Assistance Project (RAP)	Belgium
Member States Energy Efficiency Policies for the Industrial Sector Based on the Analysis of National Energy Efficiency Action Plans in the frame of the EED	Peer-reviewed paper	Paolo Bertoldi	European Commission, JRC, Directorate Energy, Transport and Climate	Italy
Principles of successful non-domestic energy efficiency policy	Peer-reviewed paper	Peter Mallaburn	University College London	United Kingdom
Research Roadmap Energy Efficiency in Industries	Extended abstract	Simon Moser	Energy Institute at the Johannes Kepler University of Linz	Austria
Simplifying Funding Conditions for Competitive Tenders: More Energy Savings with less Paperwork	Extended abstract	Peter Radgen		Germany
The non-energy benefits of Swedish energy efficiency policy instruments – a three-levelled perspective	Peer-reviewed paper	Therese Nehler	Linköping University, IEI/Department of Management and Engineering.	Sweden
The Swedish National Energy Efficiency Network Program for SMEs – a review of methodology and early experiences	Extended abstract	Erika Strömvall	Swedish Energy Agency	Sweden
Towards zero carbon emissions – climate policy instruments for energy intensive industries, materials and products	Peer-reviewed paper	Bengt Johansson	Environmental and Energy Systems Studies	Sweden
White certificates as a tool to promote energy efficiency in industry	Peer-reviewed paper	Dario Di Santo	FIRE	Italy

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<b>PANEL 2. SUSTAINABLE PRODUCTION TOWARDS A CIRCULAR ECONOMY</b>				
A Case Study on the Analysis of Injection Moulding Machines Energy Data Sets for Improving Energy and Production Management	Peer-reviewed paper	Julio Rezende	Limerick Institute of Technology	Ireland
A Supply Chain Model with Integrated Thermal Recovery and Electricity Generation from Industrial Waste Heat	Peer-reviewed paper	Simone Zanoni	Università di Brescia	Italy
Assessing the heat pump market in the Industry	Peer-reviewed paper	Jean-Marie Fourmigue	EDF Research and Development	France
Compressed air systems: factors affecting the adoption of measures for improved efficiency	Peer-reviewed paper	Andrea Trianni	Faculty of Engineering and Information Technology, University of Technology Sydney, School of Systems, Management and Leadership	Australia
Developing a georeferenced database of energy-intensive industry plants for estimation of excess heat potentials	Peer-reviewed paper	Pia Manz	Fraunhofer ISI	Germany
Energy efficiency for a sustainable industry: energy saving potential and impact of energy efficiency measures on economic performance and competitiveness of enterprises	Peer-reviewed paper	Corine Nsangwe Businge	Ricerca sul Sistema Energetico SpA	Italy
Excess heat recovery potentials in Swiss industrial systems	Extended abstract	M. Jibran S. Zuberi	University of Geneva	Switzerland
Increasing the Value Stream Map potential in an industrial process, by exploiting the data from an Industrial Ethernet Bus	Peer-reviewed paper	Francesco Benzi	Department of Electrical, Computer and Biomedical Engineering	Italy
Industry 4.0 – can we get from a big buzzword and play for the big ones to a big market?	Extended abstract	Thomas Boermans	E.ON	Germany
Measuring Multiple Benefits for Energy Efficiency in the Industrial Sector	Peer-reviewed paper	Wolfgang Eichhammer	Fraunhofer Institute for Systems and Innovation Research ISI	Germany
Perspectives for digitalisation in energy-intensive industries	Peer-reviewed paper	Marlene Arens	Fraunhofer Institute for Systems and Innovation Research	Germany
Rethinking steelmaking: zero-emissions and flexibility with hydrogen direct reduction	Extended abstract	Valentin Vogl	Environmental and Energy Systems Studies	Sweden
Standardized energy efficiency evaluation for machines in discrete manufacturing	Extended abstract	Engelbert Lang	Siemens AG, Digital Factory Division Factory Automation, Energy Management	Germany
Towards zero-CO2 production and practices in the supply chains for buildings and infrastructure	Peer-reviewed paper	Johan Rootzén	Energy Technology, Department of Space, Earth and Environment, Chalmers University of Technology	Sweden
Transforming energy productivity in value chains	Extended abstract	Jonathan Jutsen	Australian Alliance for Energy Productivity	Australia
What about heat integration? Quantifying energy saving potentials for Germany	Peer-reviewed paper	Ali Aydemir	Fraunhofer Institute for Systems and Innovation Research	Germany
What to do with industrial waste heat considering a water-energy nexus perspective	Peer-reviewed paper	Damiana Chinese	DPIA – Dipartimento Politecnico di Ingegneria e Architettura	Italy
<b>PANEL 3. ENERGY MANAGEMENT: THE NUTS AND BOLTS</b>				
Aligned Energy Saving Targets and Indicators in Energy and Financial Department	Extended abstract	Luis Marques	GEN Europe	Spain
Benchmarking of energy KPIs for energy end-use processes – a case study on a large Swedish pump manufacturer	Peer-reviewed paper	Emil Nilsson	Linköping University	Sweden
Cost-Benefit Analysis of Energy Management Systems Implementation at Enterprise and Programme Level	Peer-reviewed paper	Marco Matteini	Vienna International Centre	Austria
Energy management at industrial sites: a holistic approach	Extended abstract	Paul Noble		United Kingdom

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Energy management in Swedish pulp and paper industry – benchmarking and non-energy benefits	Peer-reviewed paper	Elias Andersson	Department of Management and Engineering / Energy Systems at Linköping University	Sweden
Energy use behavioural change for business & industry: identification, development and enhancement	Extended abstract	Sophie Chirez	DNV-GL	Belgium
Energy Value Stream Methods with Auxiliary Systems	Peer-reviewed paper	Ivan Ferretti	University of Brescia - Department of Mechanical and Industrial Engineering	Italy
EnPI-Connect: Monitoring Energy Performance across the Supply Chain	Extended abstract	Georg Ratjen	ÖKOTEC Energiemanagement GmbH	Germany
Establishing a Platform to Harmonize ISO 50001 Energy Performance Improvement Measurement and Verification Protocols	Peer-reviewed paper	Peter Therkelsen	Lawrence Berkeley National Laboratory	USA
From audit to actions: How to overcome barriers to implement energy efficiency actions and investments	Extended abstract	Michael Berger	Saint-Gobain Isover G+H AG, BUTI	Germany
How executive engagement can make (or break) industrial energy management programs	Extended abstract	Chad Gilless	Stillwater Energy	USA
How motivation and digitalisation can drive behaviour change in industry	Extended abstract	Andreas Gürtler	European Industrial Insulation Foundation	Switzerland
klimaaktiv energy-efficient business programme supports Austrian industrial SMEs	Peer-reviewed paper	Petra Lackner	Austrian Energy Agency	Austria
Moving the Masses to ISO 50001 with 50001 Ready	Peer-reviewed paper	Christine Wu	Lawrence Berkeley National Laboratory	USA
Non-energy benefits of heat integration retrofits – Case study at a large oil refinery in Sweden	Extended abstract	Sofie Marton	Chalmers University of Technology	Sweden
The evolution of energy managers in the last 25 years: the Italian experience	Peer-reviewed paper	Daniele Forni	FIRE	Italy
Towards a sustainable agro-food INDUstry: Capacity building programmes in energy Efficiency	Extended abstract	Suzanne Brunsting	ECN	The Netherlands
Using Industry's Own Words to Quantify the Benefits and Challenges of ISO 50001	Peer-reviewed paper	Heidi Fuchs	Lawrence Berkeley National Laboratory	USA
Why Energy Management taking off in the US and Canada: a look inside the programs and the infrastructure	Extended abstract	Sergio Dias	Sergio Dias Consulting	Spain
Working with Energy Audits in the ROCKWOOL Group	Extended abstract	Susanne Dyrbøl	Rockwool International	Denmark
<b>PANEL 4. TECHNOLOGY, PRODUCTS AND SYSTEM OPTIMISATION</b>				
A bottom-up analysis of energy efficiency improvement and CO2 emission reduction potentials in the Swiss Basic Metals and Fabricated Metal Products industry	Extended abstract	Navdeep Bhadbhade	University of Geneva	Switzerland
A review of pasteurisation process monitoring to support energy efficiency in the dairy industry	Peer-reviewed paper	Charlotte Challis	University of Bristol, Industrial Doctorate Centre in Systems	United Kingdom
Analysis of different transformation pathways for the energy-intensive industry in Germany on the basis of exergy analysis	Extended abstract	Flatau Roman	Institute of Energy Economics and Rational Energy Use	Germany
Bottom-up methodology for assessing electrification options for deep decarbonisation of industrial processes	Peer-reviewed paper	Holger Wiertzema	Chalmers tekniska högskola   Chalmers University of Technology, Department of Space, Earth and Environment, Division of Energy Technology	Sweden
Concepts and pathways towards a carbon-neutral heavy industry in the German federal state of North Rhine-Westphalia	Peer-reviewed paper	Clemens Schneider	Wuppertal Institute for Climate, Environment & Energy	Germany
Deep decarbonisation pathways for the industrial cluster of the Port of Rotterdam	Peer-reviewed paper	Sascha Samadi	Wuppertal Institute for Climate, Environment and Energy	Germany

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Efficiency analysis and optimisation for small scale data centres	Extended abstract	Dirk Turek	Institute of Energy Economics and Rational Energy Use	Germany
Electrification of industrial process heat: long-term applications, potentials and impacts	Peer-reviewed paper	Dietmar Schüwer	Wuppertal Institute for Climate, Environment and Energy	Germany
Energy Efficiency and Line Productivity Improvements for a Continuous Heat Treatment Process	Peer-reviewed paper	Iñigo Bonilla Campos	IK4-IKERLAN	Spain
Energy efficiency good practices in industry: the EIEEP platform	Peer-reviewed paper	Dario Di Santo	FIRE	Italy
Energy efficiency in industrial districts	Peer-reviewed paper	Marco Pellegrini	Department of Industrial Engineering - University of Bologna	Italy
Energy efficient supply chain of an aluminium product in Sweden – What can be done in-house and between the companies?	Peer-reviewed paper	Maria Johansson	Linköping University	Sweden
Energy flexibility in industry: evaluating simultaneous battery use cases and identifying generalized electricity profile indicators	Extended abstract	Fritz Braeuer	Karlsruhe Institute of Technology (KIT)	Germany
Exergy Efficiency of Ammonia Production	Peer-reviewed paper	Charalampos Michalakakis	University of Cambridge	United Kingdom
Greening the building sector – Brick by Brick	Peer-reviewed paper	Ritu Bharadwaj	Institute for Industrial Productivity India	India
Machine Level Energy Data Analysis – Development and Validation of A Machine Learning Based Tool	Peer-reviewed paper	Samuel Carvalho	Limerick Institute of Technology	Ireland
Organic Rankine Cycle technology with direct heat exchanger for the waste heat recovery of Energy Intensive Industries	Extended abstract	Pedro Egizabal Luzuriaga	TECNALIA Research & Innovation	Spain
Reverse Electrodialysis Heat-Engine: Case studies of improving energy efficiency through recovery of low temperature excess heat	Peer-reviewed paper	Michail Papapetrou	WIP-Renewable Energies	Germany
Scenario analysis of a low-carbon transition of the EU industry by 2050: Extending the scope of mitigation options	Peer-reviewed paper	Andrea Herbst	Fraunhofer Institute for Systems and Innovation Research ISI	Germany
Small-scale industrial cogeneration with high efficient gas turbine	Extended abstract	Matti Malkamäki	Aurelia Turbines	Germany
Sustainable EU ETS Glass Industry through carbon portfolio management and waste heat recovery	Extended abstract	Christina-Stavrula Hatzilau	National Technical University of Athens School of Mechanical Engineering, Thermal Engineering Section, Steam Boilers and Thermal Plants	Greece
Three electrification scenarios to decarbonise the Dutch heavy industry	Extended abstract	Toon van Harmelen	TNO	The Netherlands
<b>PANEL 5. BUSINESS MODELS, FINANCE AND INVESTMENT IN THE AGE OF DIGITALISATION</b>				
Analysis of a new Support Scheme for Energy Efficiency Investments for Industry in Germany	Extended abstract	Tina Flegel	Bundesamt für Wirtschaft und Ausfuhrkontrolle	Germany
Barriers to and Decision for Energy Efficiency. What do we know so far? – A theoretical and empirical overview	Peer-reviewed paper	Stefan M. Büttner	Institute for Energy Efficiency in Production (EEP) - University of Stuttgart	Germany
Barriers to and Drivers for Industrial Energy Management Program Investment Decision-Making	Extended abstract	aida Sa	Politecnico di Milano	Italy
Crowdfunding and crowdinvesting: A financing solution for energy (efficiency) investments in businesses?	Extended abstract	Sonja Starnberger	Energieinstitut der Wirtschaft / Energy Institute for Business	Austria
Driving investments in energy efficiency through energy savings insurance	Extended abstract	Jasmine Neve	BASE – Basel Agency for Sustainable Energy	Switzerland
Energy Efficiency Pays: How to Convince Your CEO	Extended abstract	Stefan Klepzig	Schneider Electric GmbH	Germany

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Energy efficiency projects deliver! – An analysis of 10000 energy efficiency projects	Peer-reviewed paper	Clemens Rohde	Fraunhofer Institute for Systems and Innovation Research	Germany
From energy audits to action plans for implementation of energy efficiency measures	Extended abstract	Elin Svensson	CIT Industriell Energi AB	Sweden
How policies incite investments into energy efficiency	Extended abstract	Rita Werle	Impact Energy	Switzerland
Increasing the flow of investment into energy efficiency in industry	Peer-reviewed paper	Steven Fawkes	EnergyPro Ltd	United Kingdom
Innovative business model for a standardised evaluation and re-financing of industrial energy efficiency and renewable energy projects	Extended abstract	Jürgen Fluch	AEE – Institute for Sustainable Technologies@Department Industrial Processes and Energy Systems	Austria
KfW promotional programs support investments into efficient use of energy and process heat	Extended abstract	Henrike Koschel	KfW Bankengruppe	Germany
Obstacles and solutions for realising external waste heat projects	Extended abstract	Reemt Heuke	Deutsche Energie-Agentur (Dena)	Germany
Overcoming Barriers to Investing in Industrial Energy Efficiency	Extended abstract	Oleg Dzioubinski	UN Economic Commission for Europe	Switzerland
Standardization of the Due Diligence-Processes and Risk Analysis	Extended abstract	Diana Wang	Institute for Energy Efficiency in Production EEP, University of Stuttgart	Germany
The business case foundation: Overcoming the communication gaps between policy makers, corporate management and engineering	Extended abstract	Hannes Mac Nulty	Mac Nulty Consulting	France