



A NEW REALITY #ecee2021

ecee 2021 Summer Study
on energy efficiency • 7 – 11 June 2021
DIGITAL EVENT

Monday 7th June 2021 (All times CET) updated 18 May **Note:** four (4) parallel sessions

10.30–12.00 (opening plenary) PROGRAMME TBA	

12.30–14.00 (parallel session) PANEL 1. Session I: From energy services to need satisfaction	
1-010-21 Household final energy footprints in Nepal, Vietnam and Zambia: composition, inequality and links to well-being	Marta Baltruszewicz
1-080-21 Social and material cogs of the needs satisfier escalator	Noel Cass
1-097-21 From capabilities to capacity: Examining core power capacity requirements in the UK residential sector under the capabilities framework	Jose Luis Ramirez-Mendiola
1-029-21 Socio-economic conditions for satisfying human needs at low energy use: an international analysis of provisioning factors	Jefim Vogel

12.30–14.00 (parallel session) PANEL 2. Session I: Looking back and ahead: lessons learned and introduction of future concepts and approaches	
2-002-21 What have we learnt and what have we missed?	Hans Nilsson
2-116-21 Demanding, distributing and selling energy flexibility: How dynamic tariffs transformed the Danish electricity market and what to do next	Anders Rthiger Hansen
2-011-21 Data Center Infrastructure and Energy Gentrification	Frans Libertson
2-199-21 A view from within: advocating for EU citizens right to act collectively at community scale	Nelson Silva Brito

12.30–14.00 (parallel session) PANEL 4. Session I: Evaluating and monitoring energy renovations	
4-033-21 Advanced Monitoring And Evaluation of Social Housing Renovations	Herman van der Bent
4-103-21 Evaluation of an incentive scheme for the energy renovation of low-income households: a micro-economic modelling of a great policy with marginal impact	Patrice Nogues
4-121-21 Target/actual comparison and benchmarking used to safeguard low energy consumption in refurbished housing stocks	Tobias Loga

12.30–14.00 (parallel session) PANEL 9. Session I: Heating & Cooling: Solutions that should be the new normal?	
9-003-21 Heating with Air Conditioners – fast and affordable transition towards carbon neutrality?	Andrea Roscetti
9-216-21 Heating & Cooling equipment: Fixing problems (sufficiency) and/or investing in a new equipment (efficiency)	Sophie Attali
9-087-21 Standard and Labelling for Evaporative Air Coolers: A Roadmap to Affordable & Sustainable Space Cooling Solutions in India	Srishti Sharma
9-024-21 Comparison of energy efficiency requirements of comfort fans in Europe and in Asia	Hélène Rochat

14.30–16.00 (parallel session) PANEL 2. Session II: Energy Efficiency (First): Policies, drivers and barriers	
2-075-21 Conceptualizing the "Energy Efficiency First" principle: from foundations to implementation	Tim Mandel
2-069-21 "Efficiency First" in practice	Zsuzsanna Pató
2-163-21 Maximising the synergies between carbon pricing and Article 7 of the Energy Efficiency Directive (EED)	Ivana Rogulj
2-052-21 Introducing minimum energy performance standards across Europe	Louise Sunderland

14.30–16.00 (parallel session) PANEL 3. Session I: Going the next step - Decision making to foster energy efficiency	
3-022-21 Effectiveness of rebate programmes: Swiss case studies	Eric Bush
3-074-21 Finding the right way for a Super ESCO to take off. The case of SOFIAC in Canada and beyond	Amandine Gal
3-098-21 Holistic project development and implementation support for industrial efficiency and renewable projects	Jürgen Fluch, Winfried Braumann
3-141-21 Looking behind decarbonisation - what pressure points trigger action?	Stefan M. Büttner

14.30–16.00 (parallel session) PANEL 5. Session I: Goals and pathways for sustainable cities	
5-187-21 Integrative, multidisciplinary, evidence based and participatory approach to implement ambitious energy and climate goals in cities	Deborah Zulliger Martin Jakob
5-079-21 Urban Net Zero and 100% Renewable Energy Pathways during COVID19	Kerry Constable
5-188-21 Policy networks and power relations: What determines the success of social innovation in energy within cities?	Iska Brunzema
5-082-21 What we can learn from living in Village Homes, Davis California	Ricardo Amon

14.30–16.00 (parallel session) PANEL 7. Session I: Building performance and regulation	
7-114-21 Next-generation Energy Performance Certificates and Deep Energy Renovation	Stefan Thomas
7-148-21 Driving Existing Building Energy Improvement: Building Codes and Performance Standards - a tale of two regulatory routes	Adam Hinge
7-202-21 How far are Portuguese residential buildings from NZEB?	Luís Amado
7-059-21 Saving Energy in Unoccupied Buildings	Alan Meier



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Tuesday 8th June 2021 (All times CET) updated 18 May

Note: FOUR parallel sessions

10.30–12.00 (parallel session)		
PANEL 1.		
Session II: Placing a focus on diversity and inclusion		
1-032-21	Gendering practices and policies in the South: Lessons for improved equity and sustainability in Pakistan's domestic energy sector	Rihab Khalid
1-019-21	Energy poverty in a changing climate: the challenge of "hot homes"	Anna Realini
1-190-21	Visual language for energy poor households	Altan Sahin

10.30–12.00 (parallel session)		
PANEL 3.		
Session II: Warming up in a digital world.		
3-035-21	To CHP or not to CHP: that's the question	Erwin Cornelis
3-135-21	The role of digitalisation in low carbon scenarios	Timothy Foxon
3-170-21	Efficient District Heating and Cooling. Does it promote the 2050 decarbonisation goals?	Juan Pablo Jiménez
3-117-21	Energy Efficiency First principle in Regional Governance	Vlasis Oikonomou

10.30–12.00 (parallel session)		
PANEL 5.		
Session II: The role of Municipalities as pathmakers to sustainability		
5-073-21	First things first: laying the foundations for smart energy communities by exploring concepts and realities in European case studies	Paula Hansen
5-096-21	Pathways to a Zero Carbon Oxfordshire	Sam Hampton
5-112-21	Assessing country readiness for energy communities development: a case study on Italy	Alessandro Sciuolo
5-118-21	German municipalities as pathmakers for a sustainable future: leaders or followers?	Sven Alsheimer

10.30–12.00 (parallel session)		
PANEL 7.		
Session II: Decarbonising heating		
7-016-21	Systemic challenges of Germany's heat transition – A measure and policy roadmap for a climate neutral building stock	Benjamin Köhler
7-113-21	Policy Measures in the German Heating Sector: a review-based framework to study policy acceptance	Alexandra Pröpper
7-140-21	Discourse Network Analysis of Domestic Heating in Germany	Jonas Schwenke

12.30–14.00 (parallel session)		
PANEL 1.		
Session III: New approaches from the ground up: sufficiency		
1-221-21	Scaling-up energy sufficiency on a European level through a bottom-up modelling approach: lessons and perspectives	Yves Marignac
1-131-21	A design process for a resident-oriented, sufficiency-based energy renovation approach for dwellings	Griet Verbeeck
1-185-21	Energy sufficiency and wellbeing – understanding diversity and inclusion for energy reduction strategies	Caroline Sejer Damgaard

12.30–14.00 (parallel session)		
PANEL 4.		
Session II: Evaluating for justice and equality		
4-039-21	Perspectives and methods for monitoring and evaluating the fairness and legitimacy of the energy transition: a contextual approach	Eva Heiskanen
4-068-21	Energy poverty and skills related aspects of the just transition of European coal regions – overlaps and data gaps	Veronika Czako & Ingrida Murauskaitė-Bull
4-084-21	Lighting the way to gender equality	Giulia D'Angiolini
4-167-21	Monitoring and evaluating environmental justice of peer-to-peer energy communities	Jordan Carl Young

12.30–14.00 (parallel session)		
PANEL 8.		
Session I: How to combine building energy demand and energy supply system to reduce CO2		
8-149-21	Ranagård with new 4GDH Technology	Heidi Norrström
8-058-21	Laboratory Testing of Residential Heat Pump Controllers for Demand Response using Day-Ahead Pricing Profiles	Ammi Amarnath
8-150-21	Optimized scheduling of battery storage and appliances for demand response	Luis Neves
8-198-21	How far can building energy efficiency bring us towards climate neutrality?	Souran Chatterjee, Diana Urge-Vorsatz,

12.30–14.00 (parallel session)		
PANEL 9.		
Session II: Product regulation: Market surveillance and monitoring		
9-189-21	Modelling (and Monetising) energy and non-energy impacts of product noncompliance: Why quantification can influence social/consumer behaviour towards sustainability and support energy policy innovations in the EU – The example of EEPOLIANT 2 and 3 Joint Actions	Kyriakos Papazoglou
9-001-21	Circumvention of EU Ecodesign and Energy labelling regulation and standards: Impacts, mitigation measures and recommendations for policy and standardisation	Kathrin Graulich
9-224-21	The usefulness of sales data to understand energy stakes for appliances	Therese Kreitz
9-030-21	Impact of Refrigerator Efficiency Policy and Market Transformation in India	Kishore Kumar

14.30–16.00 (parallel session)		
PANEL 2.		
Session III: International perspectives on energy (efficiency) policies		
2-166-21	The most economical solution for Turkey's power system: Energy efficiency and business models	Ayşe Ceren Sari
2-217-21	Strategies California, USA Developed to Support Their Energy and Environmental Goals	Brian Selby Gina Rodda
2-081-21	India Cooling Action Plan: Lessons in Integrated Cross-sectoral Policymaking	Sneha Sachar Satish Kumar
2-045-21	Unscrewing the Climate Change Light-Bulb with 5,000 Net-Zero-Energy Professionals	Jaydeep Bhadra

14.30–16.00 (parallel session)		
PANEL 6.		
Session I: Teleworking & "smart" measures to reduce transport demand		
6-018-21	Sustainable mobility and the pandemic: assessing the potential for a "smart working/smart mobility" scenario in large cities	Francesca Bazzocchi
6-036-21	The impact of teleworking on travel and emissions in England	Steve Sorrell
6-171-21	Automobility in Wallonia (Belgium) and Montreal (Canada): a practice-based approach	Amelie Anciaux

14.30–16.00 (parallel session)		
PANEL 8.		
Session II: Nudging consumers to create good indoor comfort at low use of energy		
8-101-21	Consume and Pay Less - A Budget Approach for Running Costs in Social Housing	Marc Großklos
8-137-21	Natural experiment to measure change in energy use and indoor environment in dwellings with	Sahar Zahiri
8-180-21	Indoor comfort with sustainable cooling systems	Margot De Pauw
8-208-21	Multidimensional indicators for evaluating housing stocks	Gustavo Sousa

14.30–16.00 (parallel session)		
PANEL 9.		
Session III: Product regulation: Evaluating effects		
9-046-21	NORDCRAWL - An effect calculation module for minimum performance standards and energy labelling in the Nordic countries	Kasper Schäfer Mogens Mogensen
9-031-21	Has necessity been the mother of invention? The effect of product policy on manufacturer innovation	Fiona Brocklehurst
9-026-21	Moving the Latin American market towards energy efficient appliances	Arturo Alatriza
9-210-21	Analyzing and Accelerating Policies with Mepsy: The Appliance & Equipment Climate Impact Calculator	Mateusz Malinowski



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Wednesday 9th June 2021 (All times CET) updated 18 May

10.30–12.00 (parallel session)		
PANEL 1.		
Session IV: New approaches from the ground up: citizen engagement		
1-120-21	Exploring energy citizenship in relation to district heating	Jenny Palm
1-172-21	Borrowing, energy demand and COVID: a model for disruption	Ralitsa Hiteva
1-049-21	ICT in context: co-designing energy efficiency ICT-based interventions from the ground up	Andrew Reeves

10.30–12.00 (parallel session)		
PANEL 3.		
Session III: It's about all of us: Local action, end users driving the change		
3-043-21	Municipal climate action managers: Evaluating the impact	Tanja Kenkmann
3-064-21	Tackling energy poverty: learning from the experience in 10 European countries	Didier Bosseboeuf
3-154-21	To what extent has Covid-19 impacted hard-to-reach energy users?	Aimee Ambrose
3-225-21	We all hate paying taxes, but some taxes are good for our pockets and save our planet	Paolo Bertoldi

10.30–12.00 (parallel session)		
PANEL 7.		
Session III: Finance and investment for energy efficiency in buildings		
7-102-21	Unlocking housing renovation with Green TLTROs	Uriintuya Batsaikhan
7-125-21	Optimal Investment in Energy Efficiency as a Problem of Wealth-Growth-Rate Maximisation: Evidence and Policy Implications	Anthony Britto
7-214-21	Financing renovation of public buildings in Slovakia	Katarína Korytárová

12.30–14.00 (parallel session)		
PANEL 2.		
Session IV: Emerging investment opportunities for energy efficiency		
2-050-21	Are economic principles a driver or a barrier for energy efficiency and climate policy?	Sibylle Braungardt
2-231-21	No need to save – Tailoring energy consulting services to medium and high income households in Berlin	Florin Vondung
2-152-21	Catalysing a low-regret transition: unlocking flexible demand in the commercial and industrial sector	Dani Alexander
2-106-21	'Retrofit salary sacrifice scheme': a funding approach to improve privately-owned housing stock	Marina Topouzi

12.30–14.00 (parallel session)		
PANEL 6.		
Session II: Aspects of electrification of the vehicle fleet		
6-044-21	Attractiveness of Electric Vehicles under current Tax and Incentive Schemes in Germany: A Total Cost of Ownership Calculation from the Customer's Perspective	Cornelius Moll
6-139-21	Transport electrification scenarios for decarbonization of the European transport sector by 2050	Hamza Abid
6-182-21	"I know it - I like it - I buy it!" The role of knowledge for the adoption of battery-electric and hydrogen vehicles	Sabine Preuß
6-086-21	Smart charging strategies to support Indian e-mobility ecosystem	Ishan Bhand

12.30–14.00 (parallel session)		
PANEL 7.		
Session IV: Delivery models		
7-076-21	Review of initiatives to support the development of "integrated home renovation services" in Europe	Christophe Milin
7-072-21	The Flemish Building Renovation Passport – Moving Forward Together!	Judith Spillemaeckers
7-108-21	How to boost one-stop-shops for integrated home energy renovation in the EU?	Francoise Refabert

14.30–16.00 (parallel session)		
PANEL 4.		
Session III: Evaluating non-energy impacts		
4-099-21	Multiple impacts of energy efficiency measures in different socio-economic contexts – Energy savings to higher well-being	Nazifa Rafa
4-054-21	Impacts of the Indoor Environment in Our Homes and Schools on Child Health	Sune Tobias Grollov
4-126-21	Valuing and communicating the multiple benefits of energy-efficiency projects: results from five Swiss M-Benefits pilot projects	Catherine Cooremans
4-229-21	New Work in Non-Energy Impacts (NEI / NEB)– Advances in BMP Measurement Methods, Measure Attribution, Health Effects, and the Downward-Biased Numbers in US NEB Adders	Lisa A. Skamatz

14.30–16.00 (parallel session)		
PANEL 5.		
Session III: What is the contribution of buildings for sustainable cities?		
5-184-21	Barriers and drivers for scaling-up energy renovations	Migena Sula
5-110-21	Public versus Private One-Stop-Shops for Energy Renovations of Residential Buildings in the EU	Georgios Pardalis
5-204-21	Estimation of potential global building-integrated solar energy supply using a high-resolution geospatial model	Diana Üрге-Vorsatz

14.30–16.00 (parallel session)		
PANEL 8.		
Session III: How to accelerate the route to climate neutral building stock		
8-067-21	Accelerating the energy-efficiency renovation of single-family houses	Hanna Westling
8-051-21	The European heating system at a tipping point	Mélissa Zill
8-107-21	Energy efficient measures applied to a multi-apartment building in southern Sweden: Analysis of the cost effectiveness with respect to carbon emissions taxes implementation	Youcef Boussaa
8-209-21	SMARTWARE – certified Low Energy – Passive House office building	Marius Soflete, Dragos-Ionut Arnăutu



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Thursday 10th June 2021 (All times CET) updated 18 May

Note: Four parallel sessions

10.30–12.00 (parallel session) PANEL 3. Session IV: Beefing up energy efficiency policies		
3-060-21	How to ascertain a reasonable obligation level in an Energy Efficiency Obligation scheme: between	Dominique Osso
3-156-21	Towards shared legal foundations for the global energy transition	Tedd Mose
3-168-21	Stronger Effort Sharing Regulation targets can drive compliance with an Article 7 of the Energy Efficiency Directive aligned with the 55% climate	Samuel Thomas
3-196-21	How has COVID19 influenced the impacts of the policies related to Article 7 of the Energy Efficiency Directive?	Livio De Chicchis

10.30–12.00 (parallel session) PANEL 4. Session IV: Learning from real life		
4-048-21	The good, the bad and the ugly: Real life stories of end-user engagement evaluation in energy	Richard Bull
4-090-21	Like a stick and no carrot: ex-post analysis of public sector energy efficiency	Andra Blumberga
4-173-21	Learnings from 5 years of monitoring the German market for energy efficiency services. A market-based approach towards energy efficiency	Stela Ivanova Dominik Rau

10.30–12.00 (parallel session) PANEL 5. Session IV: New planning and evaluation methods for sustainable cities		
5-063-21	Creating sustainability benefits by planning for integration of garden cities in the urban scale	Efstathia Vlassopoulou
5-133-21	Spatio-temporal mapping of local areas for engaging communities in the planning of smart local energy initiatives	Rajat Gupta
5-176-21	Urban social sustainability: development of an indicator set	Mahsa Bagheri

10.30–12.00 (parallel session) PANEL 9. Session IV: Products, Technologies and Policy Implications I		
9-162-21	Power consumption and energy efficiency potentials in data centers: a case study from Switzerland	Jonas Müller
9-083-21	Technology and Policy Roadmap for Energy Efficient Cold Storages in India	Tarun Garg
9-160-21	Considerations for the prediction of trends in luminous efficacy of LED products	Steve Coyne

12.30–14.00 (parallel session) PANEL 2. Session V: Guiding future policy innovation		
2-027-21	Do policymakers pay enough attention to energy demand for a just transition to net-zero? Results from a survey of UK energy experts and stakeholders	Colin Nolden
2-134-21	The role of policy in creating opportunities for alternative futures in heat decarbonization	Katherine Lovell
2-119-21	The role of knowledge exchange in energy efficiency policy innovation	Clare Downing

12.30–14.00 (parallel session) PANEL 6. Session III: Hydrogen, fuel cells & freight sector logistics		
6-017-21	BEV, PHEV, ICE Vehicles and the Role of Hydrogen Storage and Carbon Capture and Storage for Decarbonisation of Private Transport	Torsten Clemens
6-088-21	Fuel Cell or H2 combustion engine: Alternatives for heavy-duty vehicles in Germany and India?	Steffen Link
6-124-21	Comparison of Cooling Technologies for Transport Logistics	Sebastian Leopoldus

12.30–14.00 (parallel session) PANEL 7. Session V: System integration		
7-215-21	PV installation: The role of property owners of non-residential buildings in energy transition	Katharina Reindl
7-222-21	Enabling Positive Energy Districts across Europe: energy efficiency couples renewable energy	Sophie Shnapp
7-223-21	Untapping multiple benefits: hidden values in environmental and building policies	Daniele PACI

12.30–14.00 (parallel session) PANEL 9. Session V: Products, Technologies and Policy Implications II		
9-056-21	Energy Efficiency of Consumer Electronics and Household Appliances on the European Union Market: Statistics derived from the EU Product Registration database for Energy Labelling	Karsten Schischke
9-021-21	Energy regulations: Transferring lessons from household to commercial appliances	Maïke Hepp
9-023-21	Energy efficiency labels for residential and commercial Coffee Machines	Nadja Gross

14.30–16.00 (parallel session) PANEL 1. Session V: From stories to societal trends		
1-071-21	Between bottom up and top-down initiatives, the path to sustainable mobility in Rural France	Aurore Flipo
1-179-21	Clothing, comfort and energy demand: A critical review	Janine Morley
1-157-21	Understanding the controversial impact of new societal trends on long-term energy demand in European countries	Nadezhda Mikova
1-169-21	Recasting Stories about Energy in a Post-Pandemic World	Noam Bergman, Kathryn Janda

14.30–16.00 (parallel session) PANEL 4. Session V: Reflecting on methods		
4-164-21	Standardized savings calculations within Europe: exchanging EED practices to streamline theory and practice	Nele Renders
4-158-21	Energy Efficiency Directive 3.0: Can "metered savings" approaches support EU's Renovation Wave objectives?	Marion Santini
4-127-21	Monitoring the climate and energy policy implementation – How to make a step forward	Barbara Petelin Visočník
4-230-21	Likert Surveys / Scales are Too Simplistic – Better and More Useful Alternatives in Four Applications in Energy Efficiency	Dana D'Souza

14.30–16.00 (parallel session) PANEL 8. Session IV: Methodologies for better decision and quality towards carbon neutrality in buildings		
8-151-21	A novel approach for assessing the multiple benefits of energy efficiency technologies	Marcos Tenente
8-078-21	Low-carbon retrofit of UK social housing and overheating risks: causes and mitigation strategies	Daniel Kerr
8-091-21	Visualising Defects via Thermography (DeViz): A combined technological, behavioural and quality systems approach to achieving near zero defect buildings	Julie Goodhew Matthew Fox
8-095-21	Hot air or real solution? What role can decentralized ventilation systems play?	Agneta Persson



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Friday 11th June 2021 (All times CET) updated 18 May

10.30–12.00 PANEL 3. Session V: Who's to pay?		
3-145-21	KPIs in CSR reporting as a vehicle for climate neutrality	Diana Wang
3-159-21	The EU Taxonomy on sustainable economic activities – challenges deriving from the reference to the EU Taxonomy in different legislative and political contexts and its implications for energy efficiency investments	Bettina Dorendorf
3-174-21	Market Growth Models for Energy Efficiency Financing	Klemens Leutgöb
3-177-21	Criteria for climate-compatible building finance in Switzerland	Lia Weinberg Christian Hofer

10.30–12.00 (parallel session) PANEL 5. Session V: Local energy systems and the influence of our behavior		
5-066-21	Roles & Motivations of potential new stakeholders in the evolving decentralized electricity system: An exploratory forward-looking perspective survey	Elad Shaviv
5-105-21	Energy equity, actor and system capability in a smart local energy system: lessons from Project LEO	Nick Banks
5-085-21	The role of Demand Response in India's energy future	Chandana Sasidharan
5-136-21	Analysis of influence of landuse/land cover changes on the land surface temperature of Växjö Municipality, Sweden	Aarthi Aishwarya Devendran

10.30–12.00 (parallel session) PANEL 8. Session V: Combining smart building features for energy efficient buildings		
8-093-21	Evaluation of smart energy system solutions in a recently constructed multifamily apartment building in Småland, Sweden	Katarina Rupar-Gadd
8-144-21	On the smart buildings-smart grid interactions	Alvaro Gomes
8-205-21	Nudging the delivery of the EED through home-IoT and digital user interfaces	Stratos Keranidis
8-037-21	User Engagement Analysis for Smart Buildings based on Social Trend Tracking	Jiao Jiao

12.30–14.00 (parallel session) PANEL 7. Session VI: Policy		
7-183-21	Ghosts and gaps – Enabling local rapid change solutions to the Climate Emergency	Aaron Gillich
7-130-21	Tackling fuel poverty: an overview of Portugal's public policies and missed opportunities	Ricardo Robles
7-129-21	The elephant in the room and how can you nudge them?	John Rowlatt

12.30–14.00 (parallel session) PANEL 9. Session VI: Product regulation: Becoming digital, environmental and system-oriented		
9-061-21	High hopes, harsh realities: Towards an EU digital product passport	Thomas Adison
9-008-21	Transforming product efficiency policy into system efficiency policy	Hans-Paul Siderius
9-218-21	Mercury and RoHS: The link between environmental regulations and efficiency	Michael Scholand
9-006-21	Residential Network-connected Electricity Consumption in Germany	Nashua Suzaly

12.30–14.00 (parallel session) PANEL 6. Session IV: Sufficiency and other strategies for reducing transport emissions		
6-123-21	Fuel Suppliers under Energy Efficiency Obligation schemes – suitable for energy savings in transport?	Nikolaos Liapis
6-109-21	Sufficiency in transport policy – An analysis of EU countries' national energy and climate plans and long-term strategies TO BE CONFIRMED - discussion on sufficiency in transport	Carina Zell-Ziegler