

# Behave

2016

4th European Conference on  
Behaviour and Energy Efficiency



8 - 9 September 2016  
University of Coimbra, Portugal

# Programme



## Welcome Letter

We would like to warmly welcome all the participants in the 4th European Conference on Behaviour and Energy Efficiency (Behave 2016). This edition held at the University of Coimbra is jointly organised by the Energy for Sustainability Initiative of the University of Coimbra (EfS-UC) and the Portuguese Agency for Energy (ADENE), member of the European Energy Network (EnR).

Dated from 1290, the document "Scientiae Thesaurus Mirabilis" signed by King Dinis, which was recognised in the same year by Pope Nicholas IV, created one of the oldest universities in the world. A century after the birth of the nation, the University of Coimbra germinated. In 1537 the University was definitely settled in the city of Mondego river.

Research on behaviours associated with energy use plays a fundamental role to achieve more sustainable energy systems, in face of challenges such as security of supply, climate change and evolution to the smart grids. Behave 2016 aims to bring together researchers and practitioners involved in end-use energy efficiency to share recent research, new technological developments and best practices on understanding and influencing behaviour related to energy efficiency. The communications to be presented by more than two hundred participants cover a wide range of topics including instruments, interventions and evaluation of behaviour changes to promote sustainable energy behaviours, adoption and use of low carbon technologies, behavioural potential to facilitate the smart grid and demand response, end-use energy efficiency in buildings and organisations, behaviour in transport and mobility, behaviour integration into energy modelling, multidisciplinary approaches to energy behaviours, behavioural economics and energy policies for promoting behaviour change.

We thank you for your participation in Behave 2016 and hope this event will contribute to establish personal and scientific links between all the participants making the most of their diversified competences and expertise to creatively address the challenges ahead dealing with the role of behaviours to foster end-use energy efficiency.

We wish you a pleasant and fruitful stay in Coimbra.

Carlos Henggeler Antunes  
(Chair of the Organising Committee)

## Organisation



Agência para a Energia

## Partners



MIT Portugal

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## Organising Committee

Carlos Henggeler Antunes (Chair), University of Coimbra & INESCC

Ana Soares, University of Coimbra & INESCC

Emilie Carmichael, Energy Saving Trust

Irmeli Mikkonen, Motiva Oy & European Energy Network (EnR)

Jane Goddard, Energy Saving Trust

Luis Silva, Portuguese Energy Agency (ADENE) & European Energy Network (EnR)

Marta Lopes, Polytechnic Institute of Coimbra (IPC-ESAC) & INESCC

Mike Weston, UK Energy Research Centre

Paula Fonseca, University of Coimbra & ISR

## Scientific Programme Committee

António Gomes Martins (Chair), University of Coimbra & INESCC

Andreas Nilsson, University of Gothenburg

António Pita de Abreu, EDP - Energias de Portugal

Beth Karlin, University of California

David Shipworth, UCL Energy Institute

Diana Ürge-Vorsatz, Central European University

Ellen Matthies, Otto-von-Guericke University

Emilie Carmichael, Energy Saving Trust

Gabriela Prata Dias, Portuguese Energy Agency (ADENE)

Harold Wilhite, University of Oslo

Inês Lima Azevedo, Carnegie Mellon University

Irmeli Mikkonen, Motiva Oy & European Energy Network (EnR)

Jillian Anable, University of Leeds

João Peças Lopes, University of Porto

John Thøgersen, Aarhus University

Jorge Vasconcelos, NEWES - New Energy Solutions

Júlia Seixas, NOVA University of Lisbon & CENSE

Karen Ehrhardt-Martinez, University of Colorado

Kathryn Janda, Environmental Change Institute - Oxford University

Luis Mundaca, Lund University

Luisa Schmidt, University of Lisbon

Manuel Gameiro, University of Coimbra

Martina Schäfer, Technische Universität Berlin

Michael Ornetzeder, Austrian Academy of Sciences

Mithra Moezzi, Portland State University

Nelson Martins, University of Aveiro

Ole Michael Jensen, Danish Building Research Institute

Päivi Laitila, Motiva Oy

Paolo Bertoldi, DG JRC - European Commission

Paulo Ferrão, University of Lisbon

Paulo Peixoto, University of Coimbra & Centre of Social Studies

Pedro Moura, University of Coimbra

Reinhard Madlener, E.ON Energy Research Center & RWTH Aachen University

Ruth Mourik, DuneWorks

Sarah Darby, Environmental Change Institute - Oxford University

Sea Rotmann, New Zealand's Energy Efficiency and Conservation Authority

Tiago Farias, University of Lisbon

Vítor Leal, University of Porto

## Programme Overview

### THURSDAY, 8<sup>th</sup> September

08:00 - 08:45 Registration

08:45 - 09:00 **Welcome Session**

09:00 - 10.30 **Plenary Session**

10:30 - 11:00 Coffee-break

11:00 - 13:00 **Parallel Sessions A**

13:00 - 14:30 Lunch

14:30 - 16:30 **Parallel Sessions B**

16:30 - 17:00 Coffee-break

17:00 - 18:20 **Parallel Sessions C**

20:00 **Conference dinner**

### FRIDAY, 9<sup>th</sup> September

09:00 - 10:30 **Plenary Session**

10:30 - 11:00 Coffee-break

11:00 - 13:00 **Parallel Sessions D**

13:00 - 14:30 Lunch

14:30 - 16:30 **Parallel Sessions E**

16:30 - 17:00 Coffee-break

17:00 - 18:20 **Parallel Sessions F**

# Thursday, 8<sup>th</sup> September

08:00 - 08:45 **Registration**

08:45 - 09:00 **Welcome Session**

João Gabriel Silva, Rector of the University of Coimbra

Luis Neves, Dean of the Faculty of Sciences and Technology, University of Coimbra

António Gomes Martins (Chair), EfS - University of Coimbra

Gabriela Prata Dias, ADENE - Agência para a Energia

**Room: Auditorium 17 de Abril**

10:30 - 11:00 **Coffee-break**

11:00 - 13:00 **Parallel Sessions**

Parallel Sessions A		
A1. Behaviour change interventions	A2. End-use energy efficiency in buildings and organisations	A3. Behaviour integration into energy modelling
Chair: Ellen Christiansen  Room: Padre Monteiro da Rocha  ENERGY EFFICIENCY MOVING THE FOCUS FROM INDIVIDUAL TO COMMUNITY BEHAVIOUR  Clare Watson, Gerard Mullally and Brian Ó Gallachóir	Chair: Kathryn Janda  Room: Pedro Nunes  THE WICKED AND WILD CHALLENGES OF FOSTERING ENERGY EFFICIENCY ENGAGEMENT IN PRIVATE AND PUBLIC ORGANISATIONS  Richard J. Bull and Kathryn B. Janda	Chair: Ken-ichiro Nishio  Room: 2.4  DAILY ELECTRICITY PROFILES FROM SMART METERS - PROXIES OF ACTIVE BEHAVIOUR FOR SPACE HEATING AND COOLING  João Pedro Gouveia, Júlia Seixas and Ana Mestre
MOTIVATIONAL AND HINDERING ASPECTS REGARDING THE PARTICIPATION IN A COMMUNITY ENERGY PROJECT  Julia Koch, Sven Allermann, Silvia Banfi Frost and Oliver Christ	ASSESSING SUSTAINABLE RETROFITS OF PUBLIC NON-RESIDENTIAL BUILDINGS  Daniel Kierdorf, Sebastian Botzler and Christina Dotzler	LOAD SIGNATURE ANALYSIS OF RESIDENTIAL END-USAGES. A NEW MODEL FOR LOAD DISAGGREGATION IN MICRO AND MACRO SCALE LEVEL  Mario Ortiz, A. Gabaldón and R. Molina
A CO-CREATION APPROACH TO GREEN TRANSITION  Ellen Christiansen  KEEPING UP WITH THE JONESES: EXAMINING COMMUNITY-LEVEL COLLABORATIVE AND COMPETITIVE GAME MECHANICS TO ENHANCE HOUSEHOLD ELECTRICITY-SAVING BEHAVIOUR  Devon Wemys, Roberta Castrì, Vanessa De Luca, Francesca Cellina, Vivian Frick, Evelyn Lobsiger-Kägi, Pamela Galbani Bianchi, Christian Hertach, Tobias Kuehn and Vicente Carabias	A LIVING LAB CO-CREATIONAL APPROACH TO ENERGY DEMAND REDUCTION IN NON-DOMESTIC BUILDINGS: UNDERSTANDING THE ORGANISATION  Lynda Webb, Evan Morgan, Kate Carter,	EVENING PRACTICES MATERIALITY AND ELECTRICITY CONSUMPTION IN FRANCE  Mathieu Durand-Daquin  A LIBRARY OF BUILDING OCCUPANT BEHAVIOUR MODELS REPRESENTED IN A STANDARDISED SCHEMA  Zsofia Belafi, Tianzhen Hong and Andras Reith
ENERGYNEIGHBOURHOODS: SAVING ENERGY AND LEARNING ABOUT SUSTAINABLE LIFESTYLES IN SMALL GROUPS  Edina Vadovics, K. Vadovics and B. Boza-Kiss	ATTITUDES TOWARDS ENERGY EFFICIENCY – A COMPARISON OF ENERGY MANAGEMENT SPECIALISTS AND OTHER EMPLOYEES  Rupert Zierler, Walter Wehrmeyer and Richard Murphy  BEYOND VISUALIZATION IN OFFICE WORKPLACES  Magdalena Boork, Cecilia Katzeff and Therese Balksjö	ANALYZING ELECTRICITY DEMAND STRUCTURE BY USING INCOMPLETE BUT DETAILED MEASURED HOURLY CONSUMPTION DATA  Ken-ichiro Nishio and Toshihiro Mukai

13:00 - 14:30

**Lunch**

09:00 - 10:30

**Plenary Session**

Chair: Carlos Henggeler Antunes, University of Coimbra

FUTURE LOW CARBON ENERGY SYSTEMS, TECHNOLOGY REVOLUTION OR BEHAVIOUR REVOLUTION?

Mark O'Malley, University College Dublin - Sponsored by Nature Energy

ENERGY RESEARCH, SOCIAL SCIENCE AND THE HUMANITIES: EU POLICY CHALLENGES AND RESEARCH SUPPORT OPPORTUNITIES

Gerd Schönwälder, European Commission

**Room: Auditorium 17 de Abril**

<b>Parallel Sessions A (cont.)</b>		
<b>A4. Adoption and use of low carbon technologies</b>	<b>A5. Behaviour in transport and mobility</b>	<b>A6. Multidisciplinary approaches to energy behaviours</b>
Chair: Paula Fonseca	Chair: Elisabeth Dutschke	Chair: John Thøgersen
Room: Gomes Teixeira	Room: 5.1	Room: 3.1
NEAR ZERO CARBON CARE HOME DESIGN IN THE UK	UNDERSTANDING DRIVER BEHAVIOUR: OPPORTUNITIES FOR GREATER EFFICIENCY	MAPPING THE RESEARCH ABOUT RESIDENTIAL ENERGY CONSUMPTION BEHAVIOUR: A BIBLIOMETRIC ANALYSIS
Shan Shan Hou and Phil Jones	Michelle Grace Scott and Rob Lawson	Francisco P. Costa and Elsa Fontainha
GLOBAL CONSUMER STUDY TO IDENTIFY THE POTENTIAL OF WATER SAVING IN DISHWASHING	PEOPLE'S IN HOME AND OUT OF HOME ENERGY CONSERVATION ADAPTATION STRATEGY IN RESPONSE TO HYPOTHETIC ENERGY PRICE POLICIES	HOUSEHOLD ARCHETYPES AND BEHAVIOURAL PATTERNS IN UK DOMESTIC ENERGY USE
Lara Belke, Writi Maitra and Rainer Stamminger	Dujuan Yang and Harry Timmermans	Hui Ben and Koen Steemers
DISHWASHING BEHAVIOUR OF EUROPEAN CONSUMERS WITH REGARD TO ACCEPTANCE OF LONG PROGRAMME CYCLES	WHY ARE INDIVIDUALS LIKELY TO CHANGE TO SUSTAINABLE MODES OF TRANSPORT LIKE CARSHARING AND ELECTRIC VEHICLES? AN EMPIRICAL ANALYSIS	FROM SEGMENTING MEASURES TO MEASURING SEGMENTS: THE CASE OF ENERGY CULTURES CLUSTERS
Ina Hook, Angelika Schmitz and Rainer Stamminger	Elisabeth Dutschke and Anja Peters	Ben Woolscroft
TRANSITION TO AN INTELLIGENT USE OF CLEANER BIOMASS STOVES	"TIMES ARE CHANGING" – WHY PEOPLE CHANGE THE WAY THEY TRAVEL. FINDING AND EXPLAINING SPECIFIC REASONS FOR CHANGES IN TRAVEL MODES	THE PERSONAL AND PROFESSIONAL IN RESEARCHING END-USE ENERGY EFFICIENCY
Ricardo L. Carvalho, Ole M. Jensen, Estela D. Vicente and Luís A.C. Tarelho	Markus Hackenfort, Cathérine Hartmann and Ester Reijnen	Sam Staddon
SOLAR PHOTOVOLTAIC (PV) SYSTEMS IN GERMAN HOUSEHOLDS: DO DIFFERENT INCENTIVE FRAMEWORKS MATTER FOR MOTIVATIONS AND PV USE?	USING MILIEU-BASED COMMUNICATION STRATEGIES FOR CHANGING MOBILITY BEHAVIOUR TOWARDS LOW ENERGY MODES	THE ROLE OF KNOWLEDGE ABOUT USER BEHAVIOUR IN DEMAND HOT WATER USAGE
Inga Wittenberg and Ellen Matthies	Karin Markvica, Nadine Haufe and Alexandra Millonig	Seyed Amin Tabatabaei and Michel Klein
	IMAGINED PRACTICES AND THE FUTURE OF PERSONAL MOBILITY	HOUSING RELATED LIFESTYLE AND ENERGY SAVING
	Noam Bergman and Tim Schwanen	John Thøgersen

# Thursday, 8<sup>th</sup> September

14:30 - 16:30      Parallel Sessions

Parallel Sessions B		
B1. Behaviour change interventions	B2. End-use energy efficiency in buildings and organisations	B3. Behaviour integration into energy modelling
Chair: Kimberley C. O'Sullivan  Room: Padre Monteiro da Rocha  SAVE@WORK: CHANGING BEHAVIOUR AND SAVING ENERGY IN PUBLIC BUILDINGS IN THE FRAMEWORK OF A EUROPEAN PROJECT	Chair: Christine Boomsma  Room: Pedro Nunes  ELECTRICITY CONSUMPTION IN PORTUGUESE HOUSEHOLDS. RECENT DEVELOPMENTS IN CONSUMERS' BEHAVIOUR	Chair: Sebastian Botzler  Room: 2.4  KNOWLEDGE BASED BEHAVIOUR MODELLING: DEPENDENCIES AND ENERGY CONSUMPTION IMPACT OF SPECIFIC OCCUPANT BEHAVIOUR PARAMETERS
Edina Vadovics, K. Vadovics and A. Merziger  GAMIFYING ORGANIZATIONAL ENERGY BEHAVIOUR CHANGE: THE ORBEET FRAMEWORK	Júlia Mendonça Boucinha, Catarina Feteira Inácio and Manuela Albuquerque Coelho  DETECTING PATTERNS IN HOUSEHOLD ELECTRICITY CONSUMPTION AFTER BEHAVIOURAL INTERVENTIONS	Sebastian Botzler and Laura Kellermann  MODELING OF ELECTRICITY SAVINGS IN THE DANISH HOUSEHOLD SECTOR USING BALMOREL
Stella Doukianou, Ian Dunwell and Pamela M. Kato  MAXIMISING ENERGY EFFICIENT BEHAVIOURS: REDUCING ENERGY EXPENDITURE THROUGH IMPROVED UNDERSTANDING OF ENERGY BEHAVIOURS AND BEHAVIOUR CHANGE	HOW MUCH ELECTRICITY DO YOU USE AT HOME? AN INVESTIGATION INTO HOUSEHOLDERS' LITERACY FOR COMPREHENDING DOMESTIC ELECTRICITY DATA	USER BEHAVIOUR AND REBOUND EFFECT IN RESIDENTIAL BUILDINGS
Tyrone Anderson, Eleanor Forest and Andrew Leggatt  SUSTAINABLE PRACTICES IN OFFICE BUILDINGS: APPLYING SOCIAL PRACTICE THEORY AND REFLECTIVE DESIGN INTERVENTIONS	Melanie R. Herrmann, Duncan P. Brumby and Tadj Oreszczyn  ENERGY SAVING BEHAVIOURS AMONG SOCIAL HOUSING TENANTS: EXPLORING THE RELATIONSHIP WITH DWELLING CHARACTERISTICS, MONETARY CONCERNs, AND PSYCHOLOGICAL MOTIVATIONS	Francesco Madonna, Simona Padoos and Vincenzo Corrado  CORRELATION BETWEEN REBOUND EFFECT AND HOUSEHOLD INCOME – A SYSTEM DYNAMICS APPROACH
Natalia Romero Herrera, Jantien Doolaard, Olivia Guerra-Santin, Tomasz Jaskiewicz and David Keyson  SPORTS CLUBS AS MULTIPLIERS FOR ENERGY-SAVING CAMPAIGNS? DEVELOPING AND EVALUATING A MOBILITY INTERVENTION TOGETHER WITH THE CITY OF WINTERTHUR (SWITZERLAND)	Christine Boomsma, Rory V. Jones, Sabine Pahl and Alba Fuertes  ON DEMAND: EVALUATION OF A BEHAVIORAL AUTOMATED DEMAND RESPONSE FIELD EXPERIMENT	Reza Fazeli, Brynhildur Davidsdottir and Ehsan Shafiei  THE ROLE OF INHABITANTS BEHAVIOUR IN THE PREBOUND EFFECT OF HOUSING ENERGY CONSUMPTION
Corinne Moser, Vivian Frick, Yann Blumer, Michael Stauffacher and Roman Seidl  COOL AT SCHOOL? PILOT STUDY: MIXED METHODS ACTION RESEARCH WITH YOUTH TO INVESTIGATE THE INDOOR ENVIRONMENTS OF NEW ZEALAND CLASSROOMS	Joana Abreu and Basílio Simões  REDUCING THE PERFORMANCE GAP BY ANALYSING SPECIFIC COMBINATIONS OF OCCUPANT AND BUILDING CHARACTERISTICS	Madalena Ferreira and Marta Oliveira Panão  Paula van den Brom, Arjen Meijer and Henk Visscher

16:30 - 17:00      Coffee-break

Parallel Sessions B (cont.)		
B4. Adoption and use of low carbon technologies	B5. Behaviour in transport and mobility	B6. Multidisciplinary approaches to energy behaviours
Chair: Irmeli Mikkonen  Room: Gomes Teixeira	Chair: Cathérine Hartmann  Room: 5.1	Chair: Marta Lopes  Room: 3.1
THE ROLE OF CULTURE IN CONSUMPTION BEHAVIOUR AND ADOPTION OF RESOURCE-EFFICIENT TECHNOLOGIES	PLANE OR TRAIN? CO2-EMISSION INFORMATION, PRICE AND SOME OTHER FACTORS EXPLAINING TRAVEL MODE CHOICES BY GENERATION Y	THE ROLE OF ENERGY BEHAVIOURS IN PROMOTING RESIDENTIAL ENERGY SAVINGS: WHY DESIGNING MULTIDISCIPLINARY INTERVENTIONS IS IMPORTANT
Christina Yion Ping Ting	Cathérine Hartmann, Ester Reijnen, Maria Hoeger and Markus Hackenfort	Marta Lopes, Carlos Henggeler Antunes and Nelson Martins
ADOPTION AND USE OF LOW-CARBON TECHNOLOGIES: LESSONS FROM 100 FINNISH PILOTS AND DEMONSTRATIONS	ADDRESSING BEHAVIORAL BARRIERS TO FUEL ECONOMY: FUEL EFFICIENCY STANDARDS, LABELING, AND THEIR INTERPLAY	THE ROLE OF 'BEHAVIOUR' IN DETERMING ELECTRICITY AND TOTAL ENERGY CONSUMPTION IN ENGLISH HOMES
Eva Heiskanen, Kaarina Hyvönen, Päivi Laitila, Kaisa Matschoss and Irmeli Mikkonen	Carl-Friedrich Elmer	Gesche Huebner and David Shipworth
NUDGING ONE-TIME PURCHASING DECISIONS TOWARDS MORE EFFICIENT PRODUCTS	NEW OPPORTUNITIES FOR THE IMPROVEMENT OF ELECTRIC CAR ADOPTION – INSIGHTS FROM A DISCRETE CHOICE EXPERIMENT WITH CAR BUYERS IN GERMANY	ENERGY ERGONOMICS AS A FRAMEWORK FOR THE ANALYSIS AND UNDERSTANDING OF SMART DEVICE DATA: KEY DEFINITIONS AND EXPERIMENTAL APPROACH IN DWELLING HEATING DEMAND
Guy Champniss and Anne Arquit Niederberger	Sebastian Bobeth and Ellen Matthies	Jonathan D. Chambers and David Shipworth
ACTIVE ENERGY USERS: EXPERIENCE TRANSFER FROM FORERUNNERS TO FOLLOWERS	WHEN DO YOU CHARGE YOUR ELECTRIC VEHICLE? A STATED ADAPTATION APPROACH	AFFECT AND ENERGY SAVING BEHAVIOURS
Maria Thomtén, Magdalena Boork, Simon Strandberg and Magnus Brolin	Joram H.M. Langbroek, Joel P. Franklin and Yusak O. Susilo	Luís Cruz, Eduardo Barata, Filipe Coelho, Maria Pereira and Paula Simões
PRACTICAL METHODS TO ACCELERATE ADOPTION AND USE OF LOW CARBON TECHNOLOGIES	THE SWEDISH FLEX-FUEL FAILURE	TOWARDS UNDERSTANDING HOW REDEFINING SUPPLY SIDE CONSTRAINTS COULD SHAPE INDIVIDUAL DEMAND SIDE BEHAVIOUR
Jyri Tenhunen, T. Viander, M. Nordström, P. Tainio, A-M. Rauhala and U. Ala-Ketola	Linda Andersson, Kristina Ek, Åsa Kastansson and Linda Wårell	Julia Blanke, Christian Beder and Martin Klepal
EXPLORING INDIVIDUAL DECISION MAKING PROCESSES AND THE ROLE OF INFORMATION STRUCTURE IN PROMOTING UPTAKE OF ENERGY EFFICIENT TECHNOLOGIES	PROMOTING SUSTAINABLE MOBILITY STYLES USING ECO-FEEDBACK AND GAMIFICATION ELEMENTS: INTRODUCING THE GOECO! LIVING LAB EXPERIMENT	EVERYDAY HOUSEHOLD PRACTICES AND ELECTRICITY USE: EARLY FINDINGS FROM A MIXED-METHOD APPROACH TO ASSESSING DEMAND FLEXIBILITY
Rebecca Hafner, David Elmes and Daniel Read	Francesca Cellina, Dominik Bucher, Roman Rudel, Martin Raubal and Andrea E. Rizzoli	Marina Topouzi, P. Grunewald, J. Gershuny and T. Harms

# Thursday, 8<sup>th</sup> September

17:00 - 18:20      Parallel Sessions

Parallel Sessions C		
C1. Behaviour change interventions	C2. End-use energy efficiency in buildings and organisations	C3. Behaviour integration into energy modelling
Chair: Sho Hirayama  Room: Padre Monteiro da Rocha  HOW TO ENGAGE YOUR CONSUMER - DEVELOPING A TOOLKIT FOR THE ACTIVE ENGAGEMENT OF ENERGY END USERS  Philipp Reiβ, Janina Schneiker, Erik Laes, Pieter Valkering, Magdalena Boork, Gregor Černe, Vera Nunes, Simone Maggiore, Koen Straver and Carolien Kraan	Chair: Michael Ornetzeder  Room: Pedro Nunes  LET THERE BE DAYLIGHT? ASSESSING ACTUAL DAYLIGHTING PERFORMANCE OF A CLASSROOM IN USE  Nafissa Drosou, Victoria Haines, John Mardaljevic and Eleonora Brembilla	Chair: Sarah Higginson  Room: 2.4  AN EXAMINATION OF THE SOCIAL ASSUMPTIONS TYPICALLY APPLIED IN BOTTOM-UP ENERGY DEMAND MODELLING  Sarah Higginson, Eoghan McKenna and Sarah Darby
JAPAN'S FIRST LARGE-SCALE HOME ENERGY REPORT PILOT STUDY: IMPACT ON JAPANESE CONSUMERS' AWARENESS, MOTIVATIONS, AND ELECTRICITY CONSUMPTION  Sho Hirayama, Hidetoshi Nakagami, Takahiro Tsurusaki and Ken Haig	AN EXPLORATORY SURVEY ON OPERATION CONDITIONS OF BUILDING MANAGEMENT AND CONTROL SYSTEMS IN SCHOOLS  Hermano Bernardo, Andreia Vieira, Adélio Gaspar and Carlos Henggeler Antunes	RESIDENTIAL DEMAND MODELLING – TIME FOR FLEXIBILITY  Phil Grunewald, José Luis Ramírez Mendiola and Kevin Lane
ACHIEVING ENERGY FLEXIBILITY BY STORING AND SHARING SOLAR-GENERATED ELECTRICITY AT HOUSEHOLD AND COMMUNITY LEVEL  Rajat Gupta and Adorkor Bruce-Konuah	A FIELD SURVEY OF THE PERCEIVED INDOOR ENVIRONMENTAL QUALITY IN A LARGE OFFICE BUILDING  Maria R. Gomes, Paulo M. Carvalho, Hermano Bernardo, Mário Mateus, Adélio Gaspar, Carlos H. Antunes and Manuel G. Silva	SMART GRID AND DEMAND RESPONSE & BEHAVIOUR INTEGRATION INTO ENERGY MODELLING  Selin Yilmaz and Steven K. Firth
DEVELOPING A SURVEY MEASURING 'ENERGY CONSCIOUS-NESS' AND ITS SPILL-OVER EFFECTS ON OTHER DOMAINS  Britt T. Stikvoort, Peter Juslin and Cajsa Bartusch	WELLBEING IN A CLOSE TO ZERO OFFICE BUILDING: SYNERGIES OR TRADE-OFFS?  Michael Ornetzeder	HOEFF-CIM – CAMPUS INFORMATION MODELING CONCEPTS AND TOOLS FOR A CLIMATE-NEUTRAL CAMPUS  Christina Dotzler, René Regel and Daniel Kierdorf

20:00      Dinner at Quinta das Lágrimas

Parallel Sessions C (cont.)		
C4. Smart grids and demand response	C5. Behaviour in transport and mobility	C6. Behavioural economics of energy efficiency
Chair: David Shipworth  Room: Gomes Teixeira  OPPORTUNITIES AND CHALLENGES FOR MODELLING DEMAND SIDE RESPONSE FROM BUILDINGS: LESSONS FROM IEA EBC ANNEXES 66 AND 69  David Shipworth, Tianzhen Hong and Richard de Dear	Chair: Uta Schneider  Room: 5.1  QUANTIFYING THE POTENTIAL OF ECO-DRIVING BASED ON REAL WORLD DRIVING DATA  André Silva, Gonçalo Duarte and Patrícia Baptista	Chair: Luis Mundaca  Room: 3.1  ORGANISER: A NEW BEHAVIOURAL APPROACH FOR INFLUENCING ORGANISATIONS  Jeremy Vincent and Sally Wilson
BRINGING A SERVICE PERSPECTIVE TO CUSTOMER ENGAGEMENT WITH SMART GRIDS: CO-CREATING VALUE WITH SMART ENERGY SERVICES  Luisa Gonçalves and Lia Patrício	COMPARING DRIVER SELF-EVALUATION WITH REAL WORLD DRIVING PERFORMANCE: AN ANALYSIS OF THE INFLUENCE OF DRIVER FEEDBACK  Catarina C. Rolim and Patrícia C. Baptista	BEYOND ECONOMICS – UNDERSTANDING DECISION-MAKING OF GERMAN PRIVATE SMALL LANDLORDS IN TERMS OF ENERGY EFFICIENCY INVESTMENTS  Steven März
COLLECTIVE PROSUMERISM, SMART GRIDS, AND DEMAND FLEXIBILITY  Rebecca Ford, Janet Stephenson and Malcolm McCulloch	WHAT IF THE CAR WAS ELECTRIC? AN ANALYSIS OF MOBILITY RELATED “LEITBILDER” IN FAMILIES WITH CHILDREN  Uta Schneider	APPLYING BEHAVIOURAL ECONOMICS TO BOOST UPTAKE TO ‘SMART’ TIME OF USE TARIFFS WITHOUT USING OPT-OUT ENROLMENT: A PRE-ANALYSIS PLAN FOR A RANDOMISED CONTROL TRIAL  Moira Nicolson, Gesche Huebner and David Shipworth
RESIDENTIAL CONSUMERS’ ATTITUDES AND EXPECTATIONS TOWARD SCENARIOS OF FUTURE UTILITY CUSTOMER INTERACTIONS IN THE SWISS ELECTRICITY SECTOR - A FOCUS GROUP STUDY  Martin Soland, Stefan Loosli, Julia Koch and Oliver Christ	NEIGHBOURHOOD EFFECTS: EXPLORING CONSUMER TAKE UP OF TOYOTA PRIUSES  Alison Pridmore and Jillian Anable	MOBILITY CHOICES AND GREENHOUSE GAS EMISSIONS: WHICH INCENTIVES ARE EFFECTIVE?  Charles Raux

# Friday, 9<sup>th</sup> September

09:00 - 10:30 **Plenary Session**

Chair: Irmeli Mikkonen

THE HUMAN DIMENSION OF A SUSTAINABLE ENERGY TRANSITION  
Linda Steg, University of Groningen - Sponsored by Nature Energy

ENGAGING CONSUMERS IN A DECARBONIZED WORLD WITH THE RIGHT PRICING  
Ana Quelhas, EDP - Energias de Portugal

**Room: Auditorium 17 de Abril**

10:30 - 11:00 **Coffee-break**

11:00 - 13:00 **Parallel Sessions**

Parallel Sessions D		
D1. Behaviour change interventions	D2. End-use energy efficiency in buildings and organisations	D3. Behaviour integration into energy modelling
Chair: Corinna Fischer  Room: Padre Monteiro da Rocha	Chair: Sea Rotmann  Room: Pedro Nunes	Chair: Emily C. Prestwood  Room: 2.4
BREAKING HABITS: PSYCHOLOGICAL MECHANISMS OF INTERVENTIONS FOR ENERGY CONSERVATION BEHAVIOR  Johannes Bettin and Johannes Buhl	OVERPOWERING CHANGE. HOW DSO'S CAN COPE WITH A RAPIDLY CHANGING ENERGY ENVIRONMENT  Gerriette Molink	MEASURING ENERGY END-USE EFFICIENCY AND BEHAVIOURAL CHANGE IN THE UK RESIDENTIAL SECTOR USING A BENCHMARKING METHOD  Emily C. Prestwood, Thomas Weyman-Jones, Dennis Loveday and Stephen Ison
ASSESSING THE IMPACT OF INFORMATIONAL INTERVENTIONS ON HOUSEHOLD ENERGY CONSUMPTION BEHAVIOUR: AN ENERGY MONITORING PROJECT IN MULTI-STORY BLOCKS IN WALSALL (UK)  Jesus Garcia	ENERGY PERFORMANCE CONTRACTING – IS IT TIME TO CHECK THE SMALL PRINT?  Pamela J. Fennell, Paul A. Ruysssevelt and Andrew Z.P. Smith	MODELLING HETEROGENITY OF HOUSEHOLD ENERGY CONSUMPTION AND ITS INFLUENCE ON DEVELOPMENT OF LOW-EMISSION ENERGY STRATEGY  Marko Matosović and Željko Tomšić
BEHAVIOUR CHANGE INTERVENTION BASED ON INDOOR ENVIRONMENT IN RENOVATED DANISH APARTMENTS  Rune Korsholm Andersen	NEW ESCO BUSINESS MODELS FROM PROJECT MOEEBIUS  Ricardo Rato, Cláudia Mafra, Radimilo Savic, Bojan Bogdanović, Petr Stluka, Marek Sikora, Jiri Rojicek and Javier Royo	IMPACT OF BEHAVIOURAL PATTERNS ON THE ENERGY USE OF A RESIDENTIAL NEARLY-ZERO ENERGY BUILDING  Verena M. Barthelmes, Valentina Fabi and Stefano P. Cognati
AN EXPERIMENTAL RESEARCH DESIGN FOR EVALUATING ENERGY FEEDBACK  Martin Pullinger, Nigel Goddard and Janette Webb	INNOVATIVE BUSINESS MODELS FOR EFFICIENT ELECTRICITY SUPPLY: THE EVOLVING ROLE OF MARKET OPERATORS  Michele Gaspari and Arturo Lorenzoni	OCCUPANTS' BEHAVIOUR: AN OBSERVATION STUDY FOR ENERGY SAVING POTENTIAL ON LIGHTING  Christel de Bakker, Myriam Aries, Helianthe Kort and Alex Rosemann
CONTEST VERSUS NORM: ASSESSING CONTEST - AND NORM-BASED INTERVENTION TECHNIQUES  Magnus Bergquist, Andreas Nilsson and André Hansla	EFFECTIVE BUSINESS MODEL DESIGN AND ENTREPRENEURIAL SKILLS FOR ENERGY EFFICIENCY SERVICES  Ruth M. Mourik, R. Bouwknegt, C. Castaldi and J.C.C.M. Huijben	IDENTIFYING REPRESENTATIVE TYPES OF RESIDENTIAL ELECTRICITY CONSUMERS – A CLUSTER ANALYSIS OF HOURLY SMART METER DATA  Anna-Lena Klingler, Florian Schuhmacher and Katharina Wohlfarth
SAVING POWER WITH CLASS  Immanuel Stieß, Corinna Fischer and Michael Kunkis		SOCIO-ECONOMIC ANALYSIS OF ELECTRICITY CONSUMPTION PATTERNS AS BASIS FOR BEHAVIOUR CHANGE INTERVENTIONS AND THE MANAGEMENT OF SMART URBAN ISLES  Vicente Carabias, Ursula Eschenauer, Tobias Kuehn, Evelyn Lobsiger-Kägi and Thoralf Mildenberger

13:00 - 14:30 **Lunch**

Parallel Sessions D (cont.)		
D4. Smart grids and demand response	D5. Energy policies	D6. Multidisciplinary approaches to energy behaviours
Chair: Charlie Wilson  Room: Gomes Teixeira  MOTIVATIONS AND BARRIERS FOR INTEGRATING 'PROSUMING' SERVICES INTO DECENTRALIZED ELECTRICITY GRIDS  Yael Parag and Lucy Michaels	Chair: Michelle Shipworth  Room: 5.1  ENERGY POLICY NEEDS BIFOCALS  Michelle Shipworth, Adam Cooper and Cara Jenkinson	Chair: Simon Elam  Room: 3.1  THE VULNERABLE CUSTOMERS AND ENERGY EFFICIENCY PROJECT  Simon Elam and David Shipworth
BARRIERS OF CONSUMER BEHAVIOR CHANGE TO DEMAND RESPONSE IN SMART GRID: CASE STUDY OF THAILAND  Jirapa Kamsamrong, Christoph Menke and M. Norbert Fisch	POLICY IN PRACTICE: CAN POLICY PROGRAMMES LEARN FROM PRACTICE THEORY?  Sam Hampton	THE VALUE-ADDING ROLE OF SOCIAL CAPITAL ON NET POSITIVE DESIGN AT THE REGENERATIVE NEIGHBORHOOD LEVEL  Lurian Pires Klein, C. Henggeler Antunes, M. Lopes and D. Hes
DO WE NEED TO KNOW MORE ABOUT SMART METERING? – HOW SCEPTICISM AND KNOWLEDGE INFLUENCE THE END-USERS' ATTITUDES TOWARD SMART METERING  Rinaldo Fuss, Thomas Wyssenbach, Jonas Probst, Stefan Loosli, Melina Zeballos and Oliver Christ	ASSESSING THE INTANGIBLES: SOCIOECONOMIC BENEFITS OF IMPROVING ENERGY EFFICIENCY  Hanna Bartoszewicz-Burczy, Rupert J. Baumgartner, Tina Fawcett, Morgane M. C. Fritz, Gavin Killip, Tamara Valladolid, Christian Violi	COMPUTATIONAL INTELLIGENCE TECHNIQUE WITH BEHAVIOURAL PROPENSITIES FOR ENERGY PROFILE DEVELOPMENT – INEVITABLE  Olawale Popoola
EMOTIONAL MONITORING AFTER FOCUS GROUP: WHAT ARE HOUSEHOLD CONSUMERS' CONCERNs TOWARD SCENARIOS OF FUTURE UTILITY CUSTOMER INTERACTIONS IN THE SWISS ELECTRICITY SECTOR?  Stefan Loosli and Oliver Christ	ENVIRONMENTAL PSYCHOLOGY FOR ADMINISTRATIVE DECISION MAKERS: A TAILOR-MADE SUPPORT FOR CLIMATE PROTECTION AND ADAPTATION MEASURES  Gudrun Lettmayer, Anke Blöbaum, Ingrid Kaltenegger and Ellen Matthies	A RANDOM UTILITY MODEL FOR INTER-FUEL SUBSTITUTION IN EUROPE'S INDUSTRY INTEGRATION OF BEHAVIOR IN HIGH TEMPERATURE PROCESSES' FUEL DEMAND  Matthias Rehfeldt and T. Fleiter
EXPLORING THE POTENTIAL IMPLICATIONS OF HAVING BOTH RETAIL AND DISTRIBUTION PRICE SIGNALS FOR DEMAND RESPONSE IN A DEREGULATED ELECTRICITY MARKET  Isak Öhrlund	INTERDEPENDENT SOCIAL, POLITICAL, AND TECHNOLOGICAL SYSTEMS: A NEW MODEL FOR SMART-GRIDS AND ENERGY TRANSFORMATIONS  María Pérez Lugo, Cecilio Ortiz García and Eduardo A. Lugo Hernández	IMPACT OF HUMAN OCCUPATION ON INDOOR RADON CONCENTRATION: A STUDY BASED ON IN-SITU MEASUREMENTS FOR A SET OF HOUSEHOLDS IN ALTO-MINHO, PORTUGAL  António Curado and Sérgio I. Lopes
PERCEPTIONS OF SMART HOMES: A MARKET SURVEY  Charlie Wilson and Tom Hargreaves		PSYCHOSOCIAL IMPACT OF ENERGY EFFICIENCY MEASURES IN STREET LIGHTING SYSTEMS  Maria Rodrigues Meneses, Ana Reis Janeiro, Manuela Albuquerque and José Freitas Cardoso

# Friday, 9<sup>th</sup> September

14:30 - 16:30      Parallel Sessions

Parallel Sessions E		
E1. Behaviour change interventions	E2. End-use energy efficiency in buildings and organisations	E3. Behaviour change interventions - EnR
Chair: Becky Mallaband  Room: Padre Monteiro da Rocha  SAVING ENERGY BY MANAGING ROOM TEMPERATURE AND AIR QUALITY – AN EXPERIMENTAL APPROACH  Paul Suski, Holger Berg, Jens Teubler, Marco Hasselkuß and Johannes Buhl	Chair: Immanuel Stieß  Room: Pedro Nunes  TEMPERATURE PROFILES, THERMAL COMFORT AND ENERGY ATTITUDES IN RETROFITTED SOCIAL HOUSING IN IRELAND  Richard Manton, Paul Moran, Henrike Rau and Jamie Goggins	Chair: Gabriela Prata Dias  Room: 2.4  PROGRAMMES AND CAMPAIGNS TO INSPIRE AND INFORM CONSUMERS TO SUSTAINABLE CHOICES IN FINLAND  Irmeli Mikkonen, Päivi Laitila, Leila Timonen and Sirpa Mustonen
IS IT MINE AND CAN I PLAY WITH IT? EXPLORING DATA OWNERSHIP & INTERACTIVITY IN THE DELIVERY OF ECO-FEEDBACK  Kathryn Buchanan and Riccardo Russo	OCCUPANTS' PERCEPTION OF INDOOR CONDITIONS IN GREEK CITIES  Panagiota Antoniadou and Agis M. Papadopoulos	ENERGY CHALLENGE 2016: AN INITIATIVE TO RAISE AWARENESS FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY IN GENERAL PUBLIC IN SWITZERLAND  Daniela Bomatter
EXPERIENCING DOMESTIC DEMAND-SIDE RESPONSE WITH HEAT PUMPS: 'IF IT WORKS, THEN I'M QUITE HAPPY WITH IT'  Michael J. Fell	QUALITATIVE VALIDATION OF AN ENERGY CONSUMPTION BEHAVIOUR-RELATED SURVEY FOR CERTIFIED TYPICAL WALLON URBAN HOUSES  Stéphane Monfils and J.M. Hauglustaine	CREATING ENVIRONMENTS FOR BEHAVIOURAL CHANGE INSPIRATION – EMOTION – MATERIALIZATION. THE CASE OF THE AUSTRIAN KLIMAAKTIV PROGRAMME  Stephan Fickl
HOW DO HOUSEHOLDERS INTERACT WITH THEIR HEATING CONTROLS?  Ashley Morton, Victoria Haines and David Allinson	INTERACTIONS BETWEEN THERMAL MASS AND HEATING STRATEGY: A STUDY OF HIGH AND LOW THERMAL MASS DWELLINGS IN THE REPUBLIC OF IRELAND  Aidan Reilly, R. Walsh and O. Kinnane	KEYS OF SUCCESS FOR SUSTAINABLE DEVELOPMENT IN FINNISH MUNICIPALITIES  Päivi Laitila, Irmeli Mikkonen, Isa-Maria Bergman and Kirsi-Maaria Forsell
"DON'T TOUCH THAT BUTTON, WE DON'T KNOW WHAT WILL HAPPEN!": EXPERIENCES AND REFLECTIONS OF LIVING IN A RETROFITTED HOME  Philip Brown and Graeme Sherriff	HEAT ENERGY CONSUMPTION BEHAVIOR IN ENERGY-EFFICIENT HOMES: THE POWER OF ENERGY PERFORMANCE RATINGS AS A BENCHMARK  Florian Heesen and Reinhard Madlener	"REFURBISHMENT HEROES" - A COMPETITION FOR PRIVATE HOUSE OWNERS ORGANISED BY THE DEUTSCHE ENERGIE-AGENTUR (DENA) – THE GERMAN ENERGY AGENCY  Axel Scheelhaase and Kristina Zimmermann
DO INTELLIGENT HEATING CONTROLS OUT-SMART ORDINARY USERS?  Becky Mallaband, Victoria Haines and Ashley Morton	RISING TEMPERATURES, THERMAL COMFORT AND THE USE OF AIR-CONDITIONING IN PRIVATE HOMES IN GERMANY  Immanuel Stieß, Michael Kunkis and Tanja Kenkmann	ENERGY LABELLING SYSTEM FOR LIGHT DUTY CORPORATE FLEETS  João Paulo Calau, Ana Isabel Cardoso and João Barroso

16:30 - 17:00      Coffee-break

Parallel Sessions E (cont.)		
E4. Smart grids and demand response	E5. Energy policies	E6. Platforms for multidisciplinary approaches in the study of household energy practices
Chair: Sarah Darby  Room: Gomes Teixeira  BALANCING THE SYSTEM COMFORTABLY? ELECTRIC STORAGE HEATING AND RESIDENTIAL DEMAND RESPONSE  Sarah J. Darby	Chair: David Weatherall  Room: 5.1  QUALITATIVE ANALYSIS OF ENERGY PERFORMANCE CERTIFICATES ACROSS EU COUNTRIES UNDER THE LENSES OF BEHAVIOURAL INSIGHTS  Victoria Tararu and Griet Verbeeck	Chair: Anne Beaulieu  Room: 3.1  ENERGYSENSE: A PLATFORM FOR MULTIDISCIPLINARY ENERGY RESEARCH ON ATTITUDES, USE AND BEHAVIOUR OF HOUSEHOLDS  Anne Beaulieu and Salome Scholtens
USER BEHAVIOUR CONCLUSIONS FROM THE LINEAR RESIDENTIAL DEMAND RESPONSE PILOT  K. Vanthournout, A. Srivastava, R.D'huist, J. Stragier, P. Valkering, E. Laes, S. Claessens, W. Labeeuw, B. Dupont and W. Cardinaels	THE FUTURE IMPACT OF EU NEARLY-ZERO ENERGY BUILDING (NZEB) REGULATIONS ON HEATING SYSTEM MANUFACTURER BEHAVIOUR  Scott T. Bryant, Lukas Bergmann and Steven Ashurst	USING THE CONCEPT OF ENERGY CULTURE AS A PLATFORM FOR MULTIDISCIPLINARY APPROACHES  Janet Stephenson
THE FUTURE CATALOGUE: DESIGN FICTIONS TO ENHANCE USER ENGAGEMENT IN SMART GRID TECHNOLOGY  Lizette Reitsma, Elin Önnevall, Carin Torstensson, Cecilia Katzeff and Stina Wessman	ENERGY EFFICIENT INVESTMENT BEHAVIOUR OF HOMEOWNERS AND NEIGHBOURHOOD SATISFACTION  Qi Han, Gamze Dane and Elien Bisseling	SUSLAB: AN INTERNATIONAL PLATFORM TO DEVELOP SUCCESSFUL SUSTAINABLE INNOVATIONS FOR HOMES  David Keyson
CHANGING BEHAVIOURS FOR DEMAND RESPONSE IN AN ECO-COMMUNITY  Kristin Goldbach, A. Salup, A.D. Peacock, E.H. Owens and S. Góz	GOVERNANCE BARRIERS TO ENERGY UPGRADES IN APARTMENT BLOCKS: INSIGHTS FROM A STUDY OF ENGLAND AND SCOTLAND  David Weatherall, Frankie McCarthy and Susan Bright	WINDOWS OF OPPORTUNITY FOR SUSTAINABLE LIFESTYLE TRANSITIONS: CHANGING PATTERNS OF TIME-USE AND IMPLICATIONS FOR ENERGY-EFFICIENCY  Adina Dumitru Mira, Ricardo García Mira, Tony Craig, Diana Ivanova and Gibran Vita
NUDGING DEMAND RESPONSE  Jochem Garthoff and Thijs Turèl	DETERMINANTS OF ENERGY SAVING AND CONSUMPTION BEHAVIOR OF TENANTS IN THE NETHERLANDS  Gamze Dane and Qi Han	THE BENEFITS OF A LONGITUDINAL UK ENERGY SURVEY TO RESEARCH AND POLICY  Adam C.G. Cooper and David Shipworth
"GOOD CAUSES" CROWDFUNDING AS A DRIVER FOR BEHAVIOURAL CHANGE IN DEMAND RESPONSE SCENARIOS  Gabriele Santinelli, Veronique Beillan, Ilaria Monteverdi, Isabelle Jalmain, Régis Decorme and Marie Tatiboutet	FROM SMART GRIDS TO SMART COMMUNITIES: SOCIAL SCIENCES/ENGINEERING CONVERGENCE TOWARDS THE ANALYSIS OF ENERGY TRANSFORMATIONS IN THE CARIBBEAN  Cecilio Ortiz Garcia and Christopher Lebron	

# Friday, 9<sup>th</sup> September

17:00 - 18:20      Parallel Sessions

Parallel Sessions F		
F1. Behaviour change interventions	F2. End-use energy efficiency in buildings and organisations	F3. Multidisciplinary approaches to energy behaviours
Chair: Beth Karlin	Chair: Olivia Guerra-Santin	<i>The presentations were moved to other sessions</i>
Room: Padre Monteiro da Rocha	Room: Pedro Nunes	
STRATEGIES AND TOOLS TO RAISE ENERGY AWARENESS COLLECTIVELY	ASYMMETRY IN GASOLINE DEMAND BEHAVIOUR: EVIDENCE FROM HOUSEHOLD DATA	
Lara S. G. Piccolo and Harith Alani	Zia Wadud	
ON THE MAGNITUDE AND PERSISTENCE OF THE HAWTHORNE EFFECT – EVIDENCE FROM FOUR FIELD STUDIES	2ND SKIN APPROACH TO ZERO ENERGY RENOVATION	
Verena Tiefenbeck	Olivia Guerra-Santin, H. Bosch, P. Budde, T. Konstantinou, S. Boess, T. Klein and S. Silvester	
HOW TO CREATE A 'MAGIC CARPET' FOR BEHAVIOUR CHANGE	PROMOTING ENERGY EFFICIENCY WITH LIGHTING RETROFITTING IN INDIA'S HEALTH SECTOR	
Sea Rotmann	Lakshman Ravi Teja Pedamallu, Vivek Kumar Singh and Álvaro Gomes	
EMPOWERING ENERGY ACTION: A THEORETICAL MODEL AND IMPLICATIONS FOR PROGRAMMES	USING LIFE CYCLE THINKING TO SUPPORT ENERGY RETROFITTING DECISIONS	
Beth Karlin, Jason Kaufman, Lea Lupkin and Rebecca Ford	Rui Frazão, Paulo Martins, João Mariz Graça and Paulo Partidário	

Parallel Sessions F (cont.)		
F4. Smart grids and demand response	F5. Energy policies	F6. Behavioural economics of energy efficiency
Chair: Daphne Geelen  Room: Gomes Teixeira  MYSMARTPI: AN OPEN-SOURCE SMART METERING PLATFORM FOCUSED ON THE CONSUMER  Ioanna M. Chatzigeorgiou, A. Stefanidi and G.T. Andreou	Chair: Tim. J. Chatterton  Room: 5.1  PUBLIC ACCEPTANCE OF HYDROGEN FUEL CELLS APPLICATIONS IN EUROPE: THE EFFECTS OF SOCIODEMOGRAPHIC, LIFESTYLE, SELF-IDENTITY, AND ATTITUDINAL VARIABLES  Roser Sala, Elisabeth Duetschke, Monica Lores, Christian Oltra, Uta Schneider and Paul Upham	Chair: Luis Mundaca  Room: 3.1  DRIVERS FOR DIRECT AND INDIRECT REBOUND EFFECTS - THE CASE OF ENERGY EFFICIENCY TECHNOLOGIES FOR HEATING AND MOBILITY IN AUSTRIA  Sebastian Seebauer, Veronika Kulmer and Claudia Fruhmann
SMART PREPAYMENT METERS: HOUSEHOLDER EXPERIENCES  Kate Simpson, K. Smith and K. Thomas	LINKING HOUSEHOLD ENERGY CONSUMPTION FROM DOMESTIC GAS AND ELECTRICITY WITH ENERGY CONSUMED BY PRIVATE MOTOR VEHICLES  Tim. J. Chatterton, Jillian L. Anable, Sally Cairns and Jo Barnes	SOME LIKE IT HOT: AN EXPERIMENT ON COMFORT EXPECTATIONS AND RETROFIT DECISIONS  Veronica Galassi and Reinhard Madlener
IoT and BYOT: EMERGING TRENDS ENABLING BEHAVIOUR CHANGE 'AT SCALE'  Brett Feldman and Kathleen Gaffney	THE ROLE OF LOCAL BODIES ON THE BUILDING ENERGY RENOVATION IN PORTUGAL  Maria Isabel Abreu, R. Oliveira and J. Lopes	BOUNDEDLY RATIONAL CONSUMERS, ENERGY AND INVESTMENT LITERACY, AND THE DISPLAY OF INFORMATION ON HOUSEHOLD APPLIANCES  Julia E. Blasch, Massimo Filippini and Nilkanth Kumar
THE EFFECT OF DIRECT FEEDBACK APPS ON HOUSEHOLDS' ENERGY SAVINGS  Daphne Geelen, Ruth Mugge, Sacha Silvester and Annemieke Bulters	ENERGY EFFICIENCY ADVICE DELIVERED THROUGH THE GB SMART METERING ROLL-OUT  Andrew Charlesworth, Michael Harrison and Mairi Budge	RAPID DECARBONISATION OF CITIES BY ADDRESSING BEHAVIOURAL FAILURES? A CRITICAL REVIEW OF POLICY INTERVENTIONS  Jonas Sonnenschein



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