

Behave 2018



The 5th European Conference on Behaviour and Energy Efficiency

5th – 7th September 2018
Zurich, Switzerland

Preliminary Conference Schedule



Supported by



Host

Zurich University
of Applied Sciences



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Session overview

Wednesday, 5th September 2018 Pre-Conference Workshops

Time	Room details will be announced in the final program		
08:00 -	Delivering a more efficient energy system through energy communities – The REScoop ¹ PLUS toolkit	MOBISTYLE ² and H2020 ³ sister projects: Behavioural change toward energy efficiency through ICT	Will peer-to-peer energy trading deliver genuine social benefits in tomorrow's electricity systems? (PACE ⁴)
10:30 - - 12:00			
12:00 - 13:00	Lunch break (more details in the final program)		
13:00 - 17:00	Acceptance research for the energy transition (SAGUF ⁵ Annual Conference, conference language: German)	IEA DSM ⁶ Tasks 24 – What seven years of a global behaviour change research programme has taught us about evaluating impacts	Household energy efficiency adoption behaviour: Integrating findings from choice experiments into energy models (Cheetah ⁷)
17:00 - 18:30	Aperitif sponsored by SAGUF (more details in the final program)		

¹ Federation of Groups of Citizens for Renewable Energy in Europe

² MOBISTYLE Energy Health Indoor Environment

³ Horizon 2020

⁴ PACE Research Group: People, Adaptability, Comfort and smart Energy

⁵ Swiss Academic Society for Environmental Research and Ecology

⁶ International Energy Agency Demand Side Management

⁷ Changing Energy Efficacy Technology Adoption in Households – A Horizon 2020 Research Project

Thursday, 6th September 2018

Main Conference Day 1

Time	Room details will be announced in the final program					
08:30 - 10:00	Welcome address: Zurich University of Applied Sciences ZHAW, EnR Keynote speech by Benjamin Sovacool, University of Sussex					
10:00 - 10:30	Coffee break					
10:30 - 12:30	A1. EnR panel discussion	A2. Building- related investment decisions I	A3. Household I	A4. Feedback I	A5. Demand response and load management I	A6. Triggering sustainable consumption behaviour
12:30 - 14:00	Lunch break @ Tanzwerk 101 (more details in the final program)					
14:00 - 16:00	B1. Innovative technologies	B2. Building- related investment decisions II	B3. Household II	B4. Feedback II	B5. Demand response and load management II	B6. Special session: Consumer judgment and decision making
16:00 - 16:30	Coffee break					
16:30 - 18:30	C1. Digitalisation of energy use	C2. Building- related investment decisions III	C3. Household III	C4. Gamification and ICT	C5. Special session: Demand-side management and information	C6. Use of technology
18:30 - 19:30	Transfer to Die Waid (more details in the final program)					
19:30 - 22:00	Social event and dinner at Die Waid (more details in the final program)					

Friday, 7th September 2018 Main Conference Day 2

Time	Room details will be announced in the final program					
08:30 - 10:00	Plenary Session					
10:00 - 10:30	Coffee break					
10:30 - 12:30	D1. Special session: behavioral economics	D2. Communica- tion, acceptance and adoption	D3. Transportation	D4. Special session: Who are the most important stakeholders	D5. Special session: Social science input to energy transition	D6. Addressing energy poverty
12:30 - 14:00	Lunchtime break @ Tanzwerk 101 (more details in the final program)					
14:00 - 16:00	E1. Behaviour modelling	E2. Technology, acceptance and adoption I	E3. Household IV	E4. End-user behaviour in schools and offices	E5. Policy implementation and evaluation I	E6. Special session: Understanding and fostering citizens' energy-saving behaviour
16:00 - 16:30	Coffee break					
16:30 - 18:30	F1. Special session: Modelling behaviour	F2. Technology, acceptance and adoption II		F4. Special session: Advancing the 'middle-out' perspective	F5. Policy implementation and evaluation II	F6. Development of markets and innovation

Detailed session plan

Parallel sessions A

A1. EnR panel discussion, Thursday 10:30-12:30, 6 September 2018

A2. Building-related investment decisions I, Thursday 10:30-12:30, September 6, 2018

Influence of Building's Condition on House Owner's Decision Towards Renovation in Northern Sweden – SHOAB AZIZI, GIREESH NAIR, THOMAS OLOFSSON

What Deters Small Private Landlords from making Energy Efficiency Investments? A Mixed Method Approach Applied to a Depressed Neighbourhood in Germany – STEVEN MÄRZ

Understanding Homeowners' Renovation Decisions Resulting in Low Carbon Retrofit – YEKATHERINA BOBROVA, LAI FONG CHIU, GEORGE PAPACHRISTOS

Energy Efficient Refurbishment within Homeowner Associations: A Guide for Procedural Fairness – THOMAS BÄUMER, STEPHANIE HUBER, ANTJE BRETZMANN, DANIELA WOLF

Energy Efficient Retrofits in Germany - Tenants' Heating Consumption and Resulting Cost Burden – INES WEBER, ANNA WOLFF, JULIA MITTERMÜLLER

Are Energy Decisions about Energy? – WENDY BROERS, RENÉ KEMP, VERONIQUE VASSEUR, NURHAN ABUJIDI, ZEGER VROON

A3. Household I, Thursday 10:30-12:30, 6 September 2018

Enable Consumers to Learn about, Engage with and Adopt Renewable Energy Technologies: Learning from the Clear Project – SUZANNE DAUTZENBERG, G. CAROLI, S. GYSEN, M. LINARD, I. OLIVEIRA, S. CASIRAGHI

Public Energy Advising in the Internet Age - Challenges and Opportunities on the Road to More Energy Efficiency – ARE E. KJEANG, JENNY PALM, G. VENKATESH, MAGNUS STÖHL

The Effect of Personal Energy Advice on Households' Energy Use a Randomized Controlled Field Experiment – ANN-KATHRIN HESS, ILJANA SCHUBERT

Exploring Households' Perceptions of Energy Efficiency: An Empirical Analysis for Portugal – CÁTIA SOUSA, CATARINA ROLIM

Empower the Consumer! Energy-Related Financial Literacy and its Role for the Decision-Making Process in Households – NINA BOOGEN, JULIA BLASCH, CLAUDIO DAMINATO, MASSIMO FILIPPINI

Sustainable Grassroots Innovations as Opportunities to Foster Sufficient Lifestyles – STEPHANIE MOSER, STEPHAN SCHMIDT, CHRISTOPH BADER, VERENA MACK, MATTHIAS HOLENSTEIN

A4. Feedback I, Thursday 10:30-12:30, 6 September 2018

Changing Energy-Related End User Behaviour by Dynamic, Personalized Visualization of Consumption Data – MARK BLUMENKRANZ, BABETTE SLOTT

Impacts of Digital Feedback on the Precursors of Behaviour Change: Findings from a Large Experimental Field Study – MARTIN PULLINGER, LYNDA WEBB, JANETTE WEBB

Stimulating Energy-Saving Behaviour Through Eco-Feedback, Adaptive Gamification and Personalized Recommendations – JASMINKO NOVAK, MARK MELENHORST, ISABEL MICHEEL, PIERO FRATERNALI, CHIARA PASINI, SERGIO HERRERA

Interdisciplinary People-Centred Approaches to Understanding and Improving Energy Information Systems in Public Buildings – SARA ARKO, GREGOR CERINSEK, DAN PODJED, AJDA PRETNAR, JURE VETRSEK

One for All? - The Impact of Different Types of Energy Feedback and Goal Setting on Individuals' Motivation to Conserve Energy – JEROEN SEBASTIAAN BRANDSMA, JULIA BLASCH

Metaphorical Visualizations of Energy Saving Impact for Behavioural Change: A Goal-Framing Approach and Results from an Online Crowd Evaluation – MARK MELENHORST, KSENIA KOROLEVA, JASMINKO NOVAK, ISABEL MICHEEL

A5. Demand response and load management I, Thursday 10:30-12:30, 6 September 2018

Residential Demand Response in the Long Run: Assessing the Effects of a Time-Of-Use Power Tariff 20 Years After Implementing It – CAJSA BARTUSCH, BRITT T. STIKVOORT

The Effect of Working Status in Structuring Peak Electricity Demand – MÁTÉ JÁNOS LÖRINCZ, JACOPO TORRITI, TIMUR YUNUSOV

Energy Actors' Views on Demand Response from Heat Pumps – MARIA HÅKANSSON

A Multidisciplinary Approach to Assess End-Users' Preferences and Quantify Electricity Demand Flexibility – MARTA LOPES, CAROLA ANTUNES HENGGELER, INES LIMA REIS, ANTONIO G. MARTINS

Poster: Lessons Learned About User Engagement for Demand Response – DAPHNE V. GEELEN

A6. Triggering sustainable consumption behaviour, Thursday 10:30-12:30, 6 September 2018

The Effect of Messages on the Intention to Buy Environmental Products: An Experimental Study – KAORI ANDO, JUNKICHI SUGIURA, SUSUMU OHNUMA, NAHOKO ADACHI

How to Motivate People to Eat More Environmental Friendly? An Intervention Study That Investigates Also on Unconscious Processes – MARIA HÖGGER, CATHÉRINE HARTMANN, MARKUS HACKENFORT

Reduce-Return-recycle. Promoting sustainable Lunchboxes – FLAVIA GOSTELI

Feeling Green: Decision Modes Promoting Environmentally-Friendly Consumer Utility Choices – KAROLINE GAMMA, CRYSTAL REECK, ELKE U. WEBER

Energy Efficiency of Refrigerators in Germany – The Role of Purchase Behaviour – LENA THOLEN, JOHANNES FEHR, CLAUS BARTHEL, THOMAS BOGNER, GUNNAR WILL, ANTON BARCKHAUSEN

Tailoring Climate Change Communication to Female Target Groups - An Experimental Analysis of Voting and Consumer Behaviour in Switzerland – JANA PLANANSKA

Parallel sessions B

B1. Innovative technologies, Thursday 14:00-16:00, 6 September 2018

'The Third Success Factor': Understanding (Non)Constructive Behaviour and (Non)Helpful Organizational Processes of Renovation Projects in the Built Environment That Have Highly Ambitious Energy Goals (3SFO) – MARGRIET VAN LIDTH DE JEUDE

Five First and Second Generation Zero Net Energy Structures in Hawaii: Performance, Lessons Learned and Advancement in Technology – SARA CERRI, JAMES MASKREY, EILEEN PEPPARD

Actor-Related Factors of Influence on Planning and Implementation of Energy Efficient Cold Supply Systems – DOROTHEE KEPPLER

Consumers' Behaviour Towards Thermal Energy Systems Adoption: Findings from the TESSe2b European Project – SPYRIDON KARYTSAS, OLYMPIA POLYZOU, CONSTANTINE KARYTSAS

A Bottom-Up Approach for System Integration of Energy Infrastructures to Support Energy Flexibility – WIM ZEILER, TIMI LABEODAN, KENNEDY ADUDA

Potential of Internet of Things to Act as Enabler for Reducing Energy Consumption & CO2 Emissions in Switzerland – TOBIAS KUEHN, VICENTE CARABIAS-HÜTTER

B2. Building-related investment decisions II, Thursday 14:00-16:00, 6 September 2018

Decision-Making in Building Retrofitting: Lessons from Dynamic Modelling of Scenarios for Gothenburg City – ÉRIKA MATA, J. WANEMARK, M. ÖSTERBRING, H. WALLBAUM

A Modelling Approach for the Adoption of Heating Systems by Private Households in Germany – ANNETTE STEINGRUBE

Predicators and Interventions Regarding Investments in Sustainable Energy Innovations – SEBASTIAN BOBETH, INGO KASTNER, ELLEN MATTHIES

Low Carbon Advisors and SMES: Changing Energy Behaviours Through Values-Based Engagements – SAM HAMPTON, TINA FAWCETT, RICHARD BLUNDEL, CHRIS SHAW

B3. Household II, Thursday 14:00-16:00, 6 September 2018

Coevolution of Household Practices and Spatial Layouts: A Case of Rising Middle-Class Electricity Consumption in the Global South – RIHAB KAHLID, MINNA SUNIKKA-BLANK

Qualitative Classification of Energy Consuming Habits of Young Home Occupants – MARCO A. ORTIZ, PHILOMENA M. BLUYSSSEN

Rational Use of Electric Energy in Households Efficiency – ANDRZEJ BUJAK, MAREK KOTT, JOANNA KOTT

Challenging Common Assumptions of Occupant Behaviour to Mitigate Overheating or Poor Indoor Air Quality – SEBASTIAN WILLIAM JUNEMANN, LAI FONG CHIU, CLIVE SHRUBSOLE

End-Use Electricity Consumption Profiles of Turkish Homes - MERIH AYDINALP KOKSAL, GULSAH AKGUL, BILAL DUZGUN, OGUZ K. KABAKCI

Involuntary Rebound in Low Energy Buildings – SIMON MÖLLER, AMELIE BAUER, BERNHARD GILL, FRANZ SCHRÖDER

B4. Feedback II, Thursday 14:00-16:00, 6 September 2018

Towards a 'Smart' Energy Culture? Evaluating the Influence of Smart Meter Feedback in a Canadian Case Study – BRONWYN LAZOWSKI, GORDON STEPHEN, PAUL PARKER

Behavioral Change Driven by Smart Meters, Does Feedback on Energy Use Result in Energy Savings? – MARIËLLE D. A. RIETKERK, M. MENKVELD

A New Smart Meter Research Portal – SIMON ELAM

Capturing the Energy Efficiency Benefits of Smart Meters in the Non-Domestic Sector: Using Novel Research Methods to Inform Innovation in Energy Management Solutions – DAVID KENINGTON, STEPHANIE GALE, MICHAEL HARRISON, PAUL RUYSSSEVELT, LAI FONG CHIU

A Study of Behavioral and Socio-Economic Factors Influencing the Willingness to Monitor the Energy Usage by the Residential Consumers – ANNA KOWALSKA-PYZALSKA, KATARZYNA BYRKA

Gathering Learnings from a Behavioral Methodology Aimed at Rio De Janeiro Low Income Communities with High Incidence of Energy Commercial Losses – RODRIGO HOLTERMANN LAGRECA, ANA PAULA ZILLIG

B5. Demand response and load management II, Thursday 14:00-16:00, 6 September 2018

Smart Distributed Thermal Storage: Customer Experiences and Implications for Demand Response Business Models – SARAH J. DARBY, SARAH HIGGINSON, MARINA TOPOUZI, JULIE GOODHEW, STEFANIE REISS

Dynamic Tariffs: How Does Literacy, Decision Style, Loss Aversion and Information Representation Influence End-Users' Decision? – INÊS FILIPA GOMES DOS REIS, MARTA A. R. LOPES, CARLOS HENGGELER ANTUNES

Willingness to Adhere to Smart Grid with Dynamic Prices, Energy Literacy and Familiarity with People and Technology – MARIA S. J. BREDA

Efficient Load-Management Incentives – CHRISTIAN WINZER, TOBIAS MÜLLER

The Electricity Footprint of Everyday Life - How Activities Shape Load Profiles – PHIL GRUNEWALD, MARINA DIAKONOVA, AVEN SATRE-MELOY, MIRIAM ZACHAU WALKER

Control Technique for Residential Essential Load Utilization – OLAWALE POPOOLA, BLESSING CHIPANGO

B6. Special session: Consumer judgement and decision making regarding energy-efficiency and sustainable behavior, Thursday 14:00-16:00, 6 September 2018

Effects of Public Participation in Decision Making on Public Acceptability of Energy Projects: A Value Based Approach – GODA PERLAVICIUTE

Assessing Consumers' Perceptions of Electricity Use: Does Providing Reference Points Help? – WÄNDI BRUINE DE BRUIN, VEDRAN LESIC, INES LIMA AZEVEDO, MATTHEW DAVIS, TAMAR KRISHNAMURTI

Towards a More Environmentally Sustainable Society: Public Perceptions of Strategies to Realize Low Carbon Futures – KATHARINE STEENTJES, CATHERINE CHERRY, NICK PIDGEON

Fancy but Useless? The Impact of Provided Interactive Information Vs. Affect on Energy Portfolio Choices – MARILOU JOBIN, VIVIANNE HM VISSCHERS, OSCAR PR VAN VLIET, JOSEPH ARVAI, MICHAEL SIEGRIST

Value-Based Message Framing and Political Decision-Making in the Energy Domain – ULF J. J. HAHNEL, CHRISTIAN MUMENTHALER, TOBIAS BROSCHE

When Good Intentions Go Bad: The Biasing Effect of Intention on a Behavior's Perceived Environmental Impact – GEA HOOGENDOORN, BERNADETTE SÜTTERLIN, MICHAEL SIEGRIST

Parallel sessions C

C1. Digitalisation of energy use, Thursday 16:30-18:30, 6 September 2018

Analysis of User Behaviour of Commercial Dishwashers in Germany – SVENJA KERSCHGENS, RAINER STAMMINGER, BRITTA VON ESMARCH-RUMMLER

Cumulative Energy Demand of Adolescents' Digital Media Behaviour – REGULA KELLER, MATTHIAS STUCKI, LILIAN SUTER

Effectiveness of a Green Default in Electricity Product Choice and the Drivers of Switching Behaviour – BERNADETTE SÜTTERLIN, MICHAEL SIEGRIST

Consumer Acceptance and Perceptions of Smart Appliances: A Global Survey – JASMIN GEPPERT, RAINER STAMMINGER

Digital Sufficiency: An Interdisciplinary Approach to Promote Eco-Sufficient Use of Digital Media – MIESLER LINDA, VERENA BERGER, GREGOR WALLER, MATTHIAS STUCKI

Train, Plane or Skype? Testing possible interventions to reduce flight emissions at Zurich University of Arts – ANNE LOHMANN, CATHÉRIE HARTMANN, MARKUS HACKENFORT

C2. Building-related investment decisions III, Thursday 16:30-18:30, 6 September 2018

Research-Based Communication Strategy to Boost Energy Efficiency Improvements in Multi-Apartment Buildings – VESNA BUKARICA, ANAMARIJA BRSTILO, LIDIJA TO I

Explaining the Energy Performance Gap in Professionally Managed Buildings – MARCEL JANSEN

How Do Investors Choose Intermediaries for Energy Efficiency Refurbishments? – BARBARA SOPHIE ZAUNBRECHER, KATRIN ARNING, MARTINA ZIEFLE

Target Group Segmentation for Retrofitting - An Action Research Approach – SIBYLLE STUDER, STEFAN RIEDER, ZILLA ROOSE

Understanding the Presence of Energy Efficiency Measures in the English Private Rented Sector – ZAREEN SETHNA, IAN G. HAMILTON, LAI FONG CHIU

Towards Sustainable School Buildings: What Barriers School Board are Encoter for Engagement with Energy Service Companys (ESCOS)? Evidence from the Netherlands – DUJUAN YANG, RITESH BRISPAT, QI HAN

C3. Household III, Thursday 16:30-18:30, 6 September 2018

Integrating Energy Monitoring Data into a Qualitative Study on Household Energy Consumption Behaviour – JESÚS GARCÍA PÉREZ

Investigating the Influence of Physical and Occupant Factors on Energy and Environmental Performance of Four Identical Modern Flats in UK – RAJAT GUPTA, AGNESE SALVATI

Method for Measuring Occupant Behaviors Affecting Indoor Air Quality in Apartments – JONAS BORELL, H. CALTENCO, A. WIERZBICKA, Y. OMELEKHINA, E. PEDERSEN

Contextual Thermography: A New Socio-Technical Method for Understanding Energy and Comfort? – ADAM C. G. COOPER, TRUPTI B. PATEL, PILAR GARCIA SOUTO

'Stepping Outside the Qualitative Bubble': An Example of Using Quantitative Methods to Support Qualitative Research – MATTHEW LIPSON, BECKY MALLABAND, JODY OSBORN

Differentiating the Impact of Occupant Behaviour from Occupant Presence on Energy Consumption by Cluster Analysis – PEGAH ZOLFAGHARI, C. JURADO LÓPEZ, A. VAN DER AA, E. WILLEMS

C4. Gamification and ICT, Thursday 16:30-18:30, 6 September 2018

Energaware: A Pilot Longitudinal Exploration of a New Serious Game to Reduce Energy Demand in Social Housing – REBECCA J. HAFNER, SABINE PAHL, CHRISTINE BOOMSMA, RORY JONES, ALBA FUERTES

Can ICT Tools Trigger More Energy Efficient Behaviours? Challenges and Good Practice to Improve Pilot Design and Implementation – PAU REY GARCÍA, TAL'A BRUN MARCŽN

Exploring Effects of Entertaining Communication Strategies Promoting Pro-Environmental Behavior – SASCHA DEMARMELS, DOROTHEA SCHAFFNER, MATTHIAS ALBISSER, SONJA KOLBERG, ANJA JANOSCHKA

Enabling Change? A New Approach to ICT-Based Behaviour Change – ASHLEY MORTON, ANDREW REEVES, RICHARD BULL

Segmentation and Characterization of Customers Using Online Games in the Energy Sector – CHRISTINA M. MARCHAND, MARK HASELBÖCK

Exploring Factors Driving Social Comparison in Energy-Related ICT – VALERIYA AZAROVA, JED J. COHEN

C5. Special session: Demand-side management (DSM) and information (DSI) to reduce energy consumption: Recent developments, Thursday 16:30-18:30, 6 September 2018

Social Information and Energy Conservation: Environmental Identity and Social Norms – CRISTINA CATTANEO, JACOPO BEONAN, GIOVANNA D'ADDA, MASSIMO TAVONI

Energy Saving Kits - Educating and Empowering End Users? A Cross-Country Case Study Comparison – SEA ROTMANN, DANIEL CHAPMAN

Beyond Energy Reports - A Use Case Summary for Energy Tips – REBECCA FORD, BETH KARLIN, MICHELLE PURCELL, LISA ZAVAL, HALE FORSTER, DANIEL CHAPMAN

How to Improve Energy Billing Information to Induce Energy Savings? Insights from Switzerland – UROS TOMIC, VICENTE CARABIAS-HÜTTER, TOBIAS KUEHN, FRANCESCA CELLINA, ROBERTA CASTRI, NIKOLETT KOVACS

Dynamic Intervention Strategies to Change Energy Consumption Behaviour in Residential Buildings – VERA KÄMPFEN, ANNIKA SOHRE, PAUL BURGER

The Role of the User in Peer-To-Peer Energy Communities – LILIANE ABLEITNER, SANDRO SCHOPFER, VERENA TIEFENBECK

C6. Use of technology, Thursday 16:30-19:30, 6 September 2018

New Operational Challenges in Electrical Distribution Network Management in Presence of Storage Systems – CLAUDIO CARLINI, GIACOMO VIGAN, DIANA MONETA

Using a Scenario-Based Methodology to Assess Users' Requirements for Future Thermal Energy Storage Systems – KONSTANTINA KYRIAKOPOULOU, V. HAINES, V. MITCHELL, C. LAWTON

User in Control: People-Centred Approach for Developing ICT Solutions and Supporting Energy Efficiency in Buildings – SIMONA D'OCA, DAN PODJED, ANA TISOV, JURE VETR EK

User-Centric Measures of Perceived Light Quality: Development of Tools to Promote Energy Efficient Lighting – MAGDALENA BOORK, JOHANNA ENGER, CAROLINA HILLER, KARIN WENDIN

Energy Installations as Socio-Technical Systems - Barriers to Efficient Operation from a Social Scientist Perspective – UTA BÖHM, M. SCHÄFER, M. ABRAHAMOWICZ

Little Persuaders - Reducing X-Ray Contrast Agents in Water Cycles with Psychological Techniques for Behavioural Change – JOHANNES SCHULER, KATHARINA ECKARTZ, JUTTA NIEDERSTE-HOLLENBERG

Parallel sessions D

D1. Special session: Behavioural economics, Friday 10:30-12:30, 7 September 2018

Behavioral Economics: The Impact of Social Standards and Information in Portuguese Energy Consumption Decisions – RITA RAPOSO, MONICA MEIRELES, MARTA FERREIRA DIAS

A Climate Policy Gap: Swedes Are Willing to Pay More for Their Air Travel Emissions than They Have To – JONAS SONNENSCHNEIN, NORA SMEDBY

Visibility, Peer Effects and Monetary Incentive in Solar PV Adoption in Sweden – MARGARET SAMAHITA, LUIS MUNDACA

Behavioural Aspects Regarding Alternative Vehicle and Fuel Choices – LINDA ANDERSSON

D2. Communication, acceptance and adoption, Friday 10:30-12:30, 7 September 2018

Public Debate on Carbon Capture and Storage: Statements and Visual Frames Used in Dutch Newspapers – CHRISTINE BOOMSMA, EMMA TER MORS

Analyzing Multilingual Energy Discourses in Switzerland – PHILIPP DREESEN

The Common Sense of Energy Transition – PETER STÜCHELI-HERLACH, MAUREEN EHRENSBERGER-DOW

Public Perceptions of Energy System Flexibility and Storage: Deliberating Technologies and Governance – GARETH THOMAS, CHRISTINA DEMSKI, NICK PIDGEON

Not Only Experts Matter: The Role of Lay People's Expectations About the Energy Future in Acceptability Evaluations – LUKAS BRAUNREITER, YANN BENEDICT BLUMER

Strategic Communication of Renewable Energies and Energy Efficiency in an Intercultural Context Analog the Example of an Acceptance Campaign – ANNIKA SCHACH, THOMAS HELM

D3. Transportation, Friday 10:30-12:30, 7 September 2018

Identity, Self-Efficacy and Electric Vehicle Purchasing Decisions – KAREN EHRHARDT-MARTINEZ

Assessing Aggressive Driving Effects on Pollutant Emissions and Energy Consumption: City Level Analysis – MARTA FARIA, DUARTE GONÇALO, ROBERTO VARELLA, TIAGO FARIAS, PATRICIA BAPTISTA

Social Factors Contributing to the Success of Cycling Uptake Interventions – TRUDY LEDSHAM, BETH I. SAVAN, EMMA HEFFERNAN, MICHELLE KEARNS

Families as Early Adopters of Car Sharing Systems? – UTA SCHNEIDER, ELISABETH DÜTSCHKE

How to Achieve the Switch from Private Car Use to Sustainable Transport Options – ILJANA SCHUBERT, ANNIKA SOHRE, ANNE SCHERTENLEIB, CORINNE MOSER, UROS TOMIC

How to Best Stimulate Electric Vehicles' Adoption? – NIVES DELLA VALLE, ALYONA ZUBARYEVA

D4. Special session: Who are the most important stakeholders in a community striving for sustainable energy?, Friday 10:30-12:30, 7 September 2018

Exploring the Social Acceptance of Building Integrated Photovoltaics in Switzerland – EVELYN LOBSIGER-KÄGI, UROS TOMIC, HARRY SPIESS, TOBIAS KUEHN, VICENTE CARABIAS-HÜTTER

Using Digital Interventions for Behaviour Change Towards Energy Efficient Behaviour – EDITH CHASSEIN, ANNETTE ROSER, KARIN SCHAKIB-EKBATAN

Energy Efficient Solutions for Smart Cities – NATALIA VESELITSKAYA, VICENTE CARABIAS-HÜTTER, ONUR YILDIRIM

D5. Special session: Social science input to energy transitions: Making social science policy relevant – Insights from the ECHOES project, Friday 10:30-12:30, 7 September 2018

In How is Social Science Reflected in European Policies? An Analysis of Policy Documents – CHRISTIAN A. KLÖCKNER

Household Appliance Purchases as a Joint-Decision Process: Evidence from Upper-Austrian Solar Adoption – JED COHEN, ANDREA KOLLMANN

Determining the Similarities and Differences Towards Energy-Related Behaviour Between Different Types of Formal Social Units: A Set of Parameters – MEHMET EFE BIRESELIOGLU, MUHITTIN HAKAN DEMIR, MELIKE DEMIRBAG KAPLAN, BERFU SOLAK

Analysing the Country-Wise Perspectives on the Factors Driving Collective Energy Choices and Energy-Related Behaviour: Policy Recommendations - SIMEN ROSTAD SÆTHER, XINLU QIU

A Meta-Analytic Approach to Understand the Psychological Correlates of Energy-Related Behaviours – GUISEPPE CARRUS, IMMO FRITSCHKE, CHRISTIAN A. KLÖCKNER, TORSTEN MASSON, STEFANO MASTANDREA, ANGELO PANNO

Energy Memories - A New Concept for Understanding the Impact of Historic Events on Energy Choices – GRUDRUN LETTMAYER, STEPHAN SCHWARZINGER, TOMAS MOE SKJØLSVOLD, DANIELA VELTE

D6. Addressing energy poverty, Friday 10:30-12:30, 7 September 2018

Analysis of Current Trends in the Rental Accommodation Market for Students and their Implications for Fuel Poverty – IOANNIS KOUSIS, MARINA LASKARI, VASILEIOS NTOUROS, VASILEIOS LONTORFOS, JOANNA ROMANOWICZ, NEIL JENNINGS

The Significance of Energy Poverty and Low Income as Key Barriers to the Achievement of Household Energy and Emission Targets in Germany – AUDREY DOBBINS, ALI TASH, ISELA BAILEY, ULRICH FAHL

Behavioural Changes to Alleviate Energy Poverty in Europe – ANNA REALINI, SIMONE MAGGIORE, VALERIA CRESPI, GIORGIO BESAGNI

Energy Poverty and Vulnerable Groups: A Contribution on the Relationship Between Energy Poverty and Income Poverty, as Well as on the Social and Economic Consequences of Energy Retrofits – ANNA SUPPA, SONJA KUBAT

Energy Poverty in Rural Areas of Tajikistan – MURODBEK LALDJEBAEV

Reaching the Hardest to Reach in Energy Advice and Support: Key Lessons and Good Practice from the UK – AIMEE AMBROSE

Parallel sessions E

E1. Behaviour modelling, Friday 14:00-16:00, 7 September 2018

Modelling of Occupants' Window Operation in Dwellings Based on Occupancy, Indoor Environment, and Weather – NATHALIE FRANCISCA HENRIKSEN, BETTINA VERNIMMEN OLESEN, RUNE KORSHOLM ANDERSEN

Methods for Including User Behaviour in Studies of Aggregated Dwelling Stock Energy Use – NINA HOLCK SANDBERG, IGOR SARTORI, MAGNUS I. VESTRUM, HELGE BRATTEBØ

Assessing the Impacts of Household Archetypes on the Effectiveness of Energy Retrofit – BEN HUI, KOEN STEEMERS

Environmental Impact of the Food, Energy and Water Demand in Urban Areas - A Consumption Based Model for the City of Cologne, Germany – MEIKE HENSELEIT, JÜRGEN-FRIEDRICH HAKE

Feedback: An Essential Part of Energy Behaviour Modelling – JULIA BLANKE, CHRISTIAN BEDER, MARTIN KLEPAL

Actors' Behaviour Analysis in a Decentralised Energy System: The Case of German Iron and Steel Industry – ISELA BAILEY, MOHAMMAD AHANCHIAN, AUDREY DOBBINS, ULRICH FAHL, ALI TASH

E2. Technology, acceptance and adoption I, Friday 14:00-16:00, 7 September 2018

Impacts of the Fossil Fuel Divestment Movement – NOAM BERGMAN, TIMOTHY J. FOXON

Social Acceptance of Energy Efficient Cooking Technology in Pakistan: Challenges and Opportunities – MALIK INAYATULLAH JAN, SIDRA PERVEZ

Participation in a Program for Assisting the Replacement of Wood Heaters in Chile: The Role of Sociodemographic Factors, Problem Perception, Perceived Risk and Worry – CHRISTIAN OLTRA, ÀLEX BOSÓ, ALVARO QUEZADA-HOFFLINGER

The Role of the Cooperative Movement in the Energy Transition of Puerto Rico – RAFAEL O. VEGA-RODRÍGUEZ, CECILIO ORTIZ

Investigating Demand-Side Solutions to Addressing Barriers in Energy Transitions: Study of Urban Societies in India – ANJALI RAMAKRISHNAN, FELIX CREUTZIG

Middle Class Carbon Consumption in Middle Income Countries: Conceptualising Consumer Behaviour – BABETTE NEVER

E3. Household IV, Friday 14:00-16:00, 7 September 2018

Better Saved than Spent? The Carbon Footprint of Savings Across Socioeconomic Groups – MICHEL ZIMMERMANN, VICENTE MOREAU

An Empirical Analysis of Energy Saving Measures from a Household Perspective – VÉRONIQUE VASSEUR, ANNE FRANÇOISE MARIQUE

Small is Beautiful? Behavioural Challenges for Reducing Building Energy Consumption by Limiting Per Capita Living – IMMANUEL STIESS, CORINNA FISCHER, GEORG SUNDERER, KATHARINA REINDL

Moving from Energy-Saving to Mindful Lighting Behaviour in Homes – KIRAN MAINI GERHARDSSON

The How and Why of Shorter Showers: Long-Term Effects of Construal Level and Real-Time Feedback on Energy Conservation – ANOUK M. GRIFFIOEN, MICHEL J.J. HANDGRAAF, GERRIT ANTONIDES

Mapping Structure for Interviews on Energy-Related Behaviour and Underlying Motives of Residents in Large, Underused Flemish Dwellings – ANN BOSSEREZ, JASMIEN HERSENS, GRIET VERBEECK

E4. End-user behaviour in schools and offices, Friday 14:00-16:00, 7 September 2018

Hourly Utilisation and Energy Consumption of a Finnish Office Building – KEN DOOLEY

Changing Energy Consumption Behavior in Office Buildings Using Energy Meter Data – QI HAN, R. ITKELWAR, P. VAN DER WAERDEN

Competing Priorities: Lessons in Engaging Students to Achieve Energy Savings in Universities – RICHARD BULL, NEIL JENNINGS, MARINA LASKARI, JOANNA ROMANOWICZ, DAVE EVERITT, GRAEME STUART

Behavioural Change Interventions to Reduce Energy Use for Lighting in Preschools: A Pilot Study – PIMKAMOL MATTSSON, THORBJÖRN LAIKE

Learning with Students About Energy Consumption Behaviors – ALEXANDRE SILVA, CARLA OLIVEIRA, CARLOS HENGGELER ANTUNES, CATARINA SILVA, DULCE COSTA, DULCE COELHO

Structuring Decision Support for Energy Performance Assessment of School Buildings Using a Soft Systems Methodology Approach – HERMANO BERNARDO, ADÉLIO GASPARGASPAR, CARLOS HENGGELER ANTUNES

Types of Energy Consumers in Offices for the 5th European Conference on Behaviour and Energy Efficiency – MINYOUNG KWON, HILDE REMOY

E5. Policy implementation and evaluation I, Friday 14:00-16:00, 7 September 2018

Foster Urban Innovations Through Collaborative Dialogues - Malmö Innovation Arena as an Example – JENNY PALM, N. SMEDBY, DANIELA LAZOROSKA

Behavioural Analysis of Government Interventions to Promote Investments in Energy Efficiency Measures – NADJA TRHAL, DAVID BOTHE, MARCIN WALIGORA

Key Success Factors of Subsidizing Energy Efficiency Technologies. Findings from Swiss Competitive Tenders – KURT BISANG, SIMONE HEGNER

Does the Low-Carbon Pilot City Program Affect China's Carbon Intensity? A Difference-In-Difference Analysis – HUIBIN DU, TONG FENG

Coping with a Growing Number of E-Taxis: A Stated Adaptation Approach on Driving and Charging Patterns in Greater Stockholm – JENS HAGMAN, JORAM LANGBROEK

Heterogeneity in the Effect of Green Energy Defaults – JENNIFER GEWINNER, U. LIEBE, A. DIEKMANN

E6. Special session: Understanding and fostering citizens' energy-saving behaviour through collaboration between science and cities, Friday 14:00-16:00, 7 September 2018

Towards a Differentiated Understanding of Citizens' Energy-Saving Behaviour – DOROTHEA SCHAFFNER, KATHARINA KOSSMANN, TIMO OHNMACHT, CHRISTIAN WEIBEL

How Cities and Researchers Can Successfully Collaborate in Planning, Implementing and Evaluating Behavioural-Change Interventions in Energy – CORINNE MOSER, YANN BLUMER, MICHAEL STAUFFACHER, UROS TOMIC, ROMAN SEIDL, CARMEN KOBE

Transdisciplinary Informed Interventions for Sufficiency in Energy Household Consumption – STEPHAN PARLOW, ANNIKA SOHRE, ILJANA SCHUBERT

Co-Designing a Persuasive App Promoting a Less Car-Dependent Community: Introducing the Bellidea Living Lab – FRANCESCA CELLINA, JOSÉ VEIGA SIMÃO, PASQUALE GRANATO

Swiss Jean Challenge: Contesting Norms around Cleanliness Towards Reduced Energy Usage – MARLYNE SAHAKIAN, WLADYSLAW SENN, BÉATRICE BERTHO

Discussion among all participants about key learnings from such collaborative processes and their consequences for the energy transition in cities.

Parallel sessions F

F1. Special session: Modelling behavior – behavioural models: How to integrate human behaviour into energy models?, Friday 16:30-18:30, 7 September 2018

Agent-Based Model of Energy Efficiency Technology Adoption in Households - A First Version with Policies Targeted at Intermediaries – ÉMILE J. L. CHAPPIN, LAURENS HESSELINK

Concept on Modelling the Adoption of Energy-Related Technologies on the Basis of Investment Decisions of Private Households and Organizations in the Energy Industry – CHARLOTTE SENKPIEL, SANDRA WASSERMANN, JESSICA BERNEISER, CHRISTIAN HOFMAIER

Modelling Behaviour - Behavioural Models: How to Integrate Human Behaviour into Energy Models? – ELISABETH DÜTSCHKE, JOACHIM GLOBISCH

An Empirical Study of the Factors Underlying the Implicit Discount Rate: Findings from Representative Surveys in Eight EU Countries – CORINNE FAURE, JOACHIM SCHLEICH, XAVIER GASSMANN, THOMAS MEISSNER

Understanding Energy Efficient Refurbishment Decisions: A Process Model from the House Owner's Perspective – KATRIN ARNING, BARBARA SOPHIE ZAUNBRECHER, MARTINA ZIEFLE

Identifying and Modelling Target Groups for Demand Side Management Via Flexible Heat Pumps – JOACHIM GLOBISCH, MATTHIAS KÜHNBACH, ELISABETH DÜTSCHKE, ANKE ESSER

F2. Technology, acceptance and adoption II, Friday 16:30-18:30, 7 September 2018

Evaluation of Interventions Implemented by Rescoops to Stimulate Household Energy Conservation; Results from a Survey in Six EU Countries – THOMAS HOPPE, FRANS COENEN

Social, Structural, Personal and Contextual Factors of Prosuming in Households – JANA KÖHLER, MORITZ SEMEN, JANINA LANGE, JOHANNA BECKER, FREDERIK BRAUER, VANESSA LOHMANN

Shedding Light on Involuntary Prosumers: Implications of Shared Residential Solar Installations on Pro-Environmental Behaviours and Attitudes – BRITT T. STIKVOORT, ISAK ÖHRLUND, MØRTEN SCHULTZBERG

Energy-In-Sight. Sharing Perspectives and Knowledge – GERRIËTTE MOLLINK MA, PETER POS

A Social Values-Based Perspective on Peer-To-Peer Energy Sharing Systems – LURIAN PIRES KLEIN, GIOVANNI ALLEGRETTI, DOMINIQUE HES, LUISA MATOS

Developments of Charging Infrastructure Provision by Swedish Housing Cooperatives – JORAM H. M. LANGBROEK, JOEL P. FRANKLIN, YUSAK O. SUSILO

F4. Special session: Advancing the ‘middle-out’ perspective: Fostering the role of middle actors in energy system transformation, Friday 16:30-18:30, 7 September 2018

The Impact of Policy Framing on the Interest in Time of Use Tariffs – YAEL PARAG

The Central Role of Middle Actors in Retrofitting Scotland’s Built Environment: Focusing on Local Authorities and Their Delivery Partners – FAYE WADE, RUTH BUSH, JANETTE WEBB

Implementing Energy Measures in Renovations for Multi-Family Dwellings: Influence and Practice of Professionals – KATHARINA REINDL

Formal Social Groups as Promising Middle Actors for Municipal Interventions: Empirical Insights from Six Studies – YANN BLUMER, CORINNE MOSER, UROS TOMIC, MICHAEL STAUFFACHER, ROMAN SEIDL, VIVIAN FRICK

Macroergonomics: A Path to Understanding Net-Zero Energy Builder-Developers – PHILIP AGEE, PAIGE FREDERICK, ANDREW McCOY, BRIAN KLEINER

Kosher Electricity: (Re)Creating a Sustainable Shabbat from the Middle Out – YAEL PARAG

Code Officials in India: Extending the Agency & Capacity of Building Regulators - KATHRYN B. JANDA, RADHIKA KHOSLA

F5. Policy implementation and evaluation II, Friday 16:30-18:30, 7 September 2018

Developing an Agent-Based Model to Assess Behavioural Policies: Personal Carbon Trading – ROMAN SEIDL, JONAS SONNENSCHNEIN, LUIS MUNDACA

Socio-Economic Effects of Instruments to Achieve Reductions in Energy Consumption Through Sufficiency: Financial Impacts and Distributional Considerations – JOHANNA CLUDIUS, CORINNA FISCHER, TANJA KENKMANN, KATJA SCHUMACHER, TILMAN FRIES, LARS BRISCHKE

Trends in Behavioral Energy Efficiency Programs from 2010-2018 in the United States and Canada – KIRA V. ASHBY

Behavioural Insights for Policy Measurements: A Reviewing of Interventions Aimed at Energy Consumption – SASCHA KUHN, JOHANNES PRAGER, FLORIAN KUTZNER

Nudge: Complement or a Substitute of Traditional Energy Policy Instruments? – VALERIA FANGHELLA, MATTEO PLONER

The Impact of the Swiss Climate Policy Instruments on the Energy Consumption and Greenhouse Gas Emissions in the Industry and the Service Sector: Evidence from an Ex-Post Evaluation of microdata – THOMAS LEU

F6. Development of markets and innovation, Friday 16:30-18:30, 7 September 2018

New Determinants of Behaviour Change: Triggering Energy Savings Through Profitability and Self-Sufficiency of Photovoltaic Battery Systems – KATHRIN GRAULICH, INGA HILBERT, ROMAN SEIDL, SEBASTIAN ALBERT-SEIFRIED, DIETER SEIFRIED

Promoting Energy Efficiency of Products Through a National Voluntary Energy Labelling System: The Classe+ Case Study – LUÍS BANDARRA, PAULO SANTOS, ANA MARGARIDA PINTO

What are the Challenges to Include the Trade, Commerce and Service Sector in Contributing to the Energy Transition - Lessons Learned from Germany – KATHARINA LANGER, SEBASTIAN GÖLZ, TOM PILHOFER, KRISTIN GOLDBACH

Bringing the Service Perspective to Understand Customer Engagement and Value Co-Creation with Smart Energy Services – LUISA GONÇALVES, LIA PATRÍCIO

Towards a Sustainable Agro-Food INDUstry: Capacity Building Programs in Energy Efficiency (INDUCE) – SUZANNE BRUNSTING, KOEN STRAVER, KEVIN BROECKS, WOUTER WETZELS, RENEE KOOGER, LAURIE HERMANS

Development of a Digital Social Market to Promote Sustainable and Energy Efficient Behaviour: Lisbon Pilot – CATARINA C. ROLIM, MARIA J. CANEIRAS, CARLOS S. SILVA

Presentation guidelines

All lecture rooms are equipped with data projectors and laptop computers running on Windows or iOS. To minimise delays between presentations, all presenters are kindly asked to use the laptop computer provided in the room. If a presentation cannot be delivered via the ZHAW laptop or in the event of other technical emergencies, an external laptop may be connected via an HDMI connection.

There will be a staff member in the lecture room 30 minutes prior to the start of each session to collect the presentations and assist the presenters with technical matters. **We kindly ask all presenters to deliver their presentations in PowerPoint or PDF format on a USB flash drive to their respective rooms at least 30 minutes prior to their session.**

Maximum length of oral presentations is **15 minutes** + an additional 5 minutes for discussions.

Session chairs

The main responsibility of each session chair is to ensure that every presenter in the session has the same amount of time available for her or his presentation as well as questions from the audience.

A session chair should indicate approaching time limits to the presenter by holding up a sign or by making a gesture.

We also ask each session chair to provide a concise introduction of the presenters, mentioning their name, their affiliation, and the title of their presentation. The chair should also moderate the discussion by selecting questions from the audience and bringing the discussion to an end when the time is up.