

## Program for BEHAVE 2020-2021 6th European Conference on Energy Efficiency and Behaviour Change

21-23 April 2021

Co-organisers: <u>EnR (European Energy Network)</u>

Copenhagen Centre on Energy Efficiency

Conference Format: Online virtual conference

\* Timezone CEST (Central European Summertime)

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	21 Apri 2021 (Wednesday)		
9:00-10.00	Opening Plenary	Chaired by Copenhagen Centre on Energy Efficiency	
	Session	Keynote speakers (TBC)	
10.00-10.30	Coffee break		
10.30-12.00	Session 1a:	Moderator: Ruth Mourik	
	Applying behavioural		
	insights in the private	413. Empowering intermediaries to train agro-food	
	sector, organisations	companies in tackling organisational, cultural and	
	and business models	behavioural barriers for energy efficiency measures.	
	(5 presentations, 10	(Suzanne Brunsting)	
	min. each, with 30 min.	414. Industries and energy efficiency awareness	
	of Q&A at the end)	campaigns: assessment of energy savings from the Italian	
	or garrat and only	experience. (Michele Preziosi)	
	CX		
	$X \cup $	419. Barriers And Enabler For Property Owners Of	
		Premises As Organisations. (Jenny Palm)	
		490. Analysis of energy savings and behavioural trends	
		from the application of the mandatory energy audits	
		mechanism in Italy: focus on energy management systems	
		in four different economic sectors (Claudia Toro)	
		492. Can we make our office buildings more responsive?	
		Energy-efficiency and behaviour in the post-pandemic	
		office (Alessandra Luna-Navarro and Isabella Gaetani)	
10.30-12.00	Session 1b: Hard-to-	Moderator: Sea Rotmann	
<b>S</b>	reach energy users in		
	residential and non-	418. An In-Depth Review Of The Literature On 'Hard-To-	
	residential sectors and	Reach' Energy Users. (Sea Rotmann)	
	financing		
	(2)	430. Stimulating homeowner energy-saving behaviour	
	(5 presentations, 10.	through local authorities' actions. (Minyoung Kwon)	
	min. each, plus 20 min. of Q&A at the end)	440. Are tenants willing to pay for energy efficiency?	
	abstracts)	Evidence from a small-scale spatial analysis in Germany.	
	abstracts	(Steven März)	
		(5.5.5	







		465. To What Extent Has COVID-19 Impacted Hard-to-
		•
		Reach Energy Audiences? (Sea Rotmann)
		452. Effective Policies Promoting Energy Conservation and
		Sufficiency in Line with the Paris Agreement Goals (Paolo
		,
		Bertoldi)
	On a facilities	A NUIDOF and out (Charter Venezidio (Denov)) Filippe
	One invidual	NUDGE project (Stratos Keranidis (DomX), Filippos
	presentation on	Anagnostopoulos (IEECP) (20min)
	Innvoative projects and	
	research on applying	
	behavioural insights for	
	energy efficiency	
10.30-12.00	Session 1c	Moderator: Babette Never
	5.1	
	Behavioural insights	410. Lighting and Occupancy Behaviour of Preschool
	and their application in	Classrooms: a Field Study in Brazil. (Natalia Giraldo
	the developing world	Vásquez)
	(6 presentations, each	422. Understanding Occupants' Behaviour And The Mixed-
	10 min. presentations,	Mode Strategy In Office Buildings In Southern Brazil.
	plus 30 min. Q&A)	(Ricardo Forgiarini Rupp)
		433. Sustainable and Liveable Cities for People - Insights in
	$X \cup A$	Energy Consumption Patterns, Sustainable Buildings and
		Neighbourhoods in Phom Penh, Cambodia. (Ravi
	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Jayaweera and Annalena Becker)
		472. An empirical expression of a gista sharing fortow that
		473. An empirical assessment of sociotechnical factors that
	6	influence residential electricity use in India. (Rajat Gupta)
		407 Hadvata dia 2 Dania a fana Tuan fana tian ta
	<b>\ \ \ \</b>	487. Understanding Barriers for a Transformation to
		Electric Vehicles in India: A Case Study of Hyderabad.
		(Talat Munshi)
		404 Energy policy mixes with hebayioural incidhts in
		494. Energy policy mixes with behavioural insights in
12.00-13.00	Lunch break	informal markets. (Babette Never)
13.00-14.30	Session 2a	Moderator: Giorgies Voukoufikis
13.00-14.30	Session 2d	Moderator: Giorgios Koukoufikis
	Robavioural incidate	108 Public Engagement Social Modia, and the Penguishle
	Behavioural insights and effective	408. Public Engagement, Social Media, and the Renewable Energy Transition in Spain. (Daniel Wuebben and Juan
	communication for	Romero-Luis)
	climate change	Nomero-Luis)
		420. How an Ecocyctom of Stories Can Play a Pola in the
	mitigation	439. How an Ecosystem of Stories Can Play a Role in the
		Transition to a Low Carbon Future. (Noam Bergman and
		Katy Janda)







	1,2	
	(6 presentations, 10.	449. The impact of COVID-19 lockdown restrictions on
	min. each, plus 30 min.	domestic energy consumption in GB. (Ellen Webborn)
	of Q&A at the end)	
		451. Optimising Energy Feedback Messages Using fNIRS.
		(Wendell Grinton)
		471. Factors Affecting Public Awareness and Acceptance of
		CO2 Capture, Transport and Storage: A Transnational
		Comparison. (Spyridon Karytsas)
		Companson. (Spyridon Karytsas)
		479. Social Influence in the Adoption of Digital Consumer
		Innovations for Climate Change. (Emilie Vrain)
13.00-14.30	Session 2b	Moderator: Rahul Raju Dusa
10.00 1 1.00	Behavioural insights for	Model atol Manual Page 1
	_	ASE DESIGNANCE TAYONED INTERPRETATIONS
	end-use energy	435. DESIGNING TAILORED INTERVENTIONS -A pragmatic
	efficiency in buildings	segmentation approach to change energy behaviour in
		residential buildings. (Annika Sohre)
	(6 presentations, 10.	
	min. each, plus 30 min.	458. Human-driven Energy Efficiency in Historic Buildings.
	of Q&A at the end)	(Giorgia Spigliantini)
		466. Apartment related energy performance gaps and
		occupant behaviour in two multi-apartment buildings –
		What we can learn for heating regulation devices. (Simon
		Moeller)
	2 X	474. A Gap Analysis of the Literature on Energy Saving
		Behaviours in the Commercial Sector. (Matt Chester)
		478.Reducing energy consumption in a tertiary building
	U'	using Nudges. (Rabab Akkouche)
		483. Housing Choice Behaviour and Location Efficiency in
		North American (A Case Study). (Kurt Borth)
13.00-14.30	Session 2c	This special session showcases best practices implemented
13.00-14.30		
	Energy agencies	by energy agencies. It aims to demonstrate how they are
	supporting households	using behavioural insights to design their programmes and
	and communities	to address energy-related behavioural change at individual
	through the energy	and collective levels of different target groups.
	transition with a focus	3.70.77
	on behaviour change	The EnR members will present an overview of awareness-
		·
	and advice delivery	raising, educational and community engagement
	(by EnR - European	programmes/interventions implemented toward energy
	Energy Network)	transition in different sectors. They will share information
		on developing and evaluating the programmes, present
		tools and resources adapted to different target groups,
		and discuss challenges and lessons learnt.
14.30-15.00	Coffee break	
15.00-16.30	Session 3a - Digital	Moderator: TBC
	Solutions for Behaviour	
	Change	
	Change	







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		405. Triggers Behind Human-Building Interactions From A
	(5 presentations, 10.	User Perspective: Results And Effectiveness Of Capturing
	min. each, plus 30 min.	Motivations In Real-Time. (Verena M. Barthelmes)
	of Q&A at the end)	
	abstracts)	420. Probabilistic Machine Learning for Occupancy
		Prediction based on Sensor Fusion. (Amirreza Heidari)
		447. Same, Same But Different: Academic and Commercial
		Perspectives on APP-Based Energy Behaviour Change.
		(Devon Wemyss)
		459. Social Power Plus: Empowering households to energy
		sufficiency through co-designed app-based community
		energy challenges. (Francesca Cellina)
		481.Enhancing user engagement in local energy initiatives
		using smart local energy engagement tools. (Rajat Gupta)
15.00-16.00	Session 3 b - Behaviour	Moderator: Ellen Matthies
	Interventions for the	
	integration of Energy	448. Social and market acceptance of photovoltaic panels
	Efficiency and	and heat pumps in Europe: A literature review and a
	Renewable Energy	survey. (Diego Peñaloza)
	(6 presentations, 10.	454.DER Customer Insights: a values-based approach to
	min. each, plus 30 min.	motivate new DER customers. (Danielle Alexander)
	of Q&A at the end)	
	abstracts)	455. DER Customer Insights: Lessons from the customer
	$\times \vee$	journeys for new DER customers. (Scott Dwyer)
		484. A User-Centered Design Approach To Identify
		Behavioural Biases In Household Solar Pv Adoption.
		(Nelson Sommerfeldt)
	6	
		476. Exploring the role of stakeholder dynamics in
		residential photovoltaic adoption decisions: A quantitative
		survey in Germany. (Soren Graupner)
		422 The vale of comition and a value literature.
		423. The role of cognition and energy literacy in
	^	consumers' response to energy labels – insights from the
15.00.47.00	Cossion 2s Ind.	Netherlands and China. (Shutong He)
15.00-17.00	Session 3c Improving	Organiser: LEAP4SME
	energy programmes in	LEAP4SME is a H2020 funded project made up of 9
	enterprises: behavioural	National Energy Agencies, all belonging to the EnR
	insights and barriers	network. The main aim of LEAP4SME is working to disseminate and improve energy policies for SMEs in
		Europe.
		Speakers from National Energy Agencies in the Ellipsea
		Speakers from National Energy Agencies in the EU area, Universities (background in behavioural energy issues), EU
		funded projects related to energy & behaviour in non-
		residential sectors.
		residential sectors.







The session will present case studies from the privat sector, provide a snapshot on the state of the art of audit/efficiency policies and programmes for SMEs i	
European area Countries  22 April 2021 (Thursday)	
9.00-10.00 Plenary session Chaired by Copenhagen Centre on Energy Efficiency	
To.00-10.30 Coffee Break  **Keynote speakers (TBC)	
10.30-12.00 Session 4a Moderator: Luis Mundaca	
Users behaviour in	os the
transport and mobility and business models 403. Sharing vehicles or sharing rides - what influence acceptance of shared mobility services in Germany?	
Burghard)	
(5 presentations, 10. min. each, plus 30 min. 404. Choice architecture design affects preferences	for FV
of Q&A at the end) smart charging. (Maria Lagomarsino)	OI LV
abstracts)	
446. Buying green cars? Determinants of purchase intention for energy-efficient cars in Switzerland.	
(Dorothea Schaffner)	
486. Determinants of car-sharing self-efficacy. (John Magnus Roos)	
and news	
431. What can entrepreneurs and their business mo	dels
contribute to accelerating the energy transition?.  (Ruth.M.Mourik)	
10.30-12.00 Session 4b Moderator: Marta Lopes	
Behaviour integration 409. How I see me – A meta-analysis investigating the integration association between identities and pro-environment	
for policy development behaviour. (Alina Mia Udall)	
-1	fi e i e u t
428. Role of online information sources in energy-ef renovations: perspectives of house owners in Finlan	
min. each, plus 30 min. Sweden. (Gireesh Nair)	
of Q&A at the end)	tivo
abstracts) 429. Energy and Behaviour: A multi-faceted perspec towards a low carbon future. (Marta Lopes)	live
436. Investigation of the Impact of Occupants Behave on Residential Electricity Consumption. (Dilek Sumer	
on residential Electricity Consumption. (Dilek Sumer	1







	of Energy Policy Instruments upon the Thermal Technology in Greece. (Theni
The road to net zero: what can energy agencies learn from behavioural science (by EnR - European Energy Network)  Within this area, the learn from the behaviour and encourage join programmes are an Although energy programmes are an Although ene	here is much that energy agencies can navioural and social sciences to ork they do. Therefore, this session will nity for both sides to share knowledge nt-up thinking so that behaviour change is effective as they can be. ractitioners face many challenges, this on some key challenges in designing
specific needs.  12.00-13.00 Lunch break	
13.00-14.30 Session 5a Moderator: Marta	Lopes
Behaviour integration into energy modelling for policy development  -2  (6 presentations, 10. min. each, plus 30 min. of Q&A at the end) abstracts)  437. Process Persp. Qualitative Meta-section of Q	pective on Home Retrofit Decisions: A synthesis. (Yekatherina Bobrova)  screte choice experiments and bottomination appliances in response to energy (Tim Mandel)  time-use based approach for estimating consumption. (Mate Janos Lorincz)  ed model of retrofit diffusion. (Giulia  Information Nudges on Energy Saving: a Randomized Field Experiment in
Modeled Demand Mittermüller and F	n of Residential Cooling Demand - Versus Occupants' Real-life Needs. (Julia Farzan Banihashemi)
13.00-14.30 Session 5b Moderator: <b>TBC</b>	







	I	
	Multidisciplinary	411. Mitigation of Energy Poverty through consumers
	approaches to energy	behaviour: pilot actions in Italy. (Anna Realini)
	behaviours for	
	achieving the SDGs	463. Evaluation of energy resilience and adaptation: An
	defile virigetile 3DG3	
		economic efficiency analysis. (Andrea Gatto)
	(6 presentations, 10.	
	min. each, plus 30 min.	477.Sustainability and coherence of actions aimed at a
	of Q&A at the end)	behavioural change in energy consumption. (Lolita
		Rubens)
		480.Ecological Education, (Viviana Deruto, Alessandro
		Bertirotti and Mario Moschi)
		Dertifotti aliu ivialio iviostili)
		475. Determinants of residential photovoltaic adoption
		intention – A meta-analysis. (Emily Schulte)
		482.The impact of personal, housing, and neighbourhood
		factors on personal wellbeing. (Gesche Huebner)
13.00-14.30	Session 5c - C2E2	(5.00.00.00.00.00.00.00.00.00.00.00.00.00
15.00-14.50		
	special session on	YA A/' A
	Danish private sector	
	behaviour solutions for	
	climate neutrality	
14.30-15.00	Coffee break	
15.00-16.30	Session 6a	Moderator: Louiza Papamikrouli
	Energy Communities	
	and Related Behaviour	400.Social innovations in the energy field – an empirical
	Strategies to Energy	enquiry. (Irmeli Mikkonen)
	Éfficiency	
		415. Understanding Preferences For Characteristics Of
	(6 presentations, 10.	Renewable Energy Communities. (Darja Miahilova)
	min. each, plus 30 min.	
	of Q&A at the end)	432. ENERGY COMMUNITIES IN ITALY. Analysis on the
	abstracts)	internal national gap between North and South. (Monica
		Musolino)
		Widsollid)
		AMA Potentianto of Citizana   Postinia ativati
		444. Determinants of Citizens' Participation and
		Investment in Energy Community Initiatives. (Spyridon
	X	Karytsas)
	V	
	1//	464.Energy Communities and Energy Conservation.
	20	(Stephan Sommer)
		472 Actions to Boost Energy Efficiency and Indoor Air
	00.	472.Actions to Boost Energy Efficiency and Indoor Air
45.00.46.22	100	Quality. Case studies in Italian schools. (Mario Diana)
15.00-16.30	Session 6b	÷, ,
15.00-16.30	Session 6b	Quality. Case studies in Italian schools. (Mario Diana)  Moderator: Mariagiovanna Gaglione
15.00-16.30	Session 6h	Quality. Case studies in Italian schools. (Mario Diana)
15.00-16.30	Session 6h	Quality. Case studies in Italian schools. (Mario Diana)  Moderator: Mariagiovanna Gaglione
15.00-16.30	<b>O</b> ,	Quality. Case studies in Italian schools. (Mario Diana)  Moderator: Mariagiovanna Gaglione  407. Overcoming Defaults: Cognitive Biases and Consumer Engagement with Local Energy in a Multiple Supplier
15.00-16.30	Session 6h  (6 presentations, each paper lasts 10 min.,	Quality. Case studies in Italian schools. (Mario Diana)  Moderator: Mariagiovanna Gaglione  407. Overcoming Defaults: Cognitive Biases and Consumer







		450 0 (6:
	with 30 min. of Q&A at the end)	450. Promoting energy efficiency through competitive tenders. Comparing auction schemes and end-user activation in Germany, Portugal, Switzerland and Taiwan. (Kurt Bisang)
		456.A Systems Approach to Off-grid Hydropower for Community-led Flood Resilience. (Spyros Schismenos)
		467.A micro-scale analysis of attitudes and behaviours towards sustainability and domestic energy saving in Italy. (Nicola Rainisio)
		468. Learning from Failures as a Support for Energy Transition. (Irmeli Mikkonen)
		489.Identification of Everyday Food-related Behaviour Patterns with High Potential for Energy Savings: KTH Live-in-Lab Explorative Case Study. (Elena Malakhatka)
15.00-16.30	Session 6c Innvoative projects and research on applying	Moderator: Paolo Bertoldi  1. Information Campaigns for Residential Energy
	behavioural insights for energy efficiency	Conservation, Mark A. Andor, Andreas Gerstery, Jorg Peters (20 min.)
	(Collection of invidual presentation + poster	Low Energy Inclusive Appliances (LEIA) programme (Dr Gill Davies, Energy Saving Trust, 20 min.)
	próposals)	<ol> <li>Energy poverty and the ASSIST model (Marina Varvesi AISFOR – Italy, Marta Garcia, ECOSERVEIS – Spain) (20 min.)</li> </ol>
	1 abstract presentation,	453. How to unlock the human potential for promoting
0,	the paper lasts 10 min. with 20 min. of Q&A at the end)	energy efficiency? A review on the barriers and levers (10)
	23	April 2021 (Friday)
9.00-10.30	Session 7a. Collective action for the energy transition – emergence, perceived benefits and	The special session will combine insights from four European research projects on social innovation and collective action in the energy transition (SONNET, COMETS, SocialRES, NEWCOMERS).
V	potential for scaling	The session will focus on how collective action evolves, on the potential for wider adoption among EU citizens, the
	10	benefits that members of collective action initiatives experience as well as their potential for scaling. It will be discussed how collective action initiatives can contribute to
	<b>O</b> ,	behavioural change for the clean energy transitions. Each of the four project contributes one presentation. In the final
		<ul> <li>plenary discussion the following questions will be raised:</li> <li>What drives the development of collective action initiatives?</li> </ul>







9.00-10.30	Session 7b - special	<ul> <li>To what extent do collective action initiatives have the potential to trigger behaviour change at the individual level?</li> <li>What is the potential of collective action initiatives to shape the energy transition?</li> <li>(Alessandro Sciullo, Hangjian Wu, Tanja Kamin, Adélie Ranville)</li> <li>Moderator: Xianli Zhu</li> </ul>
9.00-10.30	session (TBC)	Woderator. Alami Zilu
	36331011 (TDC)	What does an energy efficiency agency learn from
	(Collection of invidual	from barometers on behaviour change? (Dr Didier
	presentation + poster	Bosseboeuf, ADEME France) (20 min.)
	proposals)	
	, ,	2. Behavioral insights from the user-oriented control
		systems in buildings (Arlinda Bresa) (15 min.)
		3. Recovering lost energy: The role and the impact of EU
		market surveillance on energy efficiency. A gap analysis with findings from the EEPLIANT trilogy of EU
		projects (Dr Kyriakos Papazoglou, PROSAFE) (20 min.)
		broces (Br Kyriakes rapazagiou, r Kesri, E) (20 milli)
		4. Technology and behaviour change for medical waste
		management and climate change mitigation (Andrea
		Romaoli Garcia) (20 min.)
9.00-10.30	Session 7c	The special session is expected to last for 180 minutes
3.00 10.30	. The H2020 project -	(brief introduction, nine presentations+discussion). The
	SMARTEES (1)	session spreads over two consecutive 90 minutes slots
		with a break in the middle. The session will be chaired by
		the project coordinator Christian A. Klöckner (NTNU).
9.00-10.30	Session 7d. ASSIST	The presentation will focus on energy poverty and the
	model and the SUITE	ASSIST model and the "business" scalabality plan of the
	project	model considering public / private /public-private financial
		mechanisms. The side event will present the ASSIST model and the
		SUITE project and will then illustrate the possible delivery
	X	nd scalability models. An interactive Q&A session to
		answer questions and to collect feedback from the
		participants will close the event.
	40	(Marine Married Marty Courier For College
		(Marina Varvesi, Marta Garcia, Eva Suba, Frances Ribera,
		Anna Wierzcholowska)
10.30-11.00	Coffee break	
11.00-12.30	Session 8a	Panel discussion: Is energy efficiency (fe)male? The role of
		gender for sustainable energy use
		(J. S. Clancy, M. Hultman, I. Thronicker, J. Tröger, A.
		Wågström, J. P. Wesche and S. Preuß)







44 00 43 30	Carata Ob IEA II.	Mandandaria Da Car Balanca
11.00-12.30	Session 8b - IEA <u>Users</u>	Moderator is Dr. Sea Rotmann
	TCP session will focus	(Operating Agent of the HTR Annex by Users TCP by IEA)
	on <u>hard-to-reach (HTR)</u>	and the speakers include experts from Sweden, the US,
	energy users	New Zealand, Spain and the UK.
		This session focuses on hard-to-reach (HTR) energy users
		in the residential and non-residential sectors. The speakers
		will discuss international findings and elicit audience
		feedback on:
		Who these audiences are and how many of them
		we think are out there not being successfully
		engaged
		How we can best identify, define and target them
		What we know about their demographics,
		psychographics, barriers and needs
		<ul> <li>How to reach or engage them better using behavioural insights, and</li> </ul>
		How to facilitate multi-stakeholder collaboration and
		follow a robust research strategy when designing,
		implementing and evaluating behaviour change
		interventions targeting these HTR energy users.
		AND A CARLO COLLABORATION OF THE COLLABORATION OF T
		427. A Collaborative International Approach to
		Characterising "Hard-To-Reach" Energy Users. (Sea
		Rotmann)
11.00-12.30	Session 8c - The H2020	
	project SMARTEES (2)	
11.00-12.30	Session 8d. IEA special	Coordinated by Elisabetta Cornago
	session on its Energy	Presentation of the work of the Energy Sector
	Sector Behavioural	Behavioural Insights Platform of the Users TCP, with
	Insights Platform	key findings from the environment scan and open
		questions, Elisabetta Cornago
		o Followed by Q&A
		Two presentations of innovative BI applications to
		energy policy from policy makers in different countries
		[TBC]
		Each presentation would be followed by Q&A
		with audience
	<b>X</b>	Broader Q&A – audience to presenters, but also
		questions to the audience via Mentimeter
12.30-14.00	Lunch break	
14.00-15.00	Closing Plenary session	Chaired by Copenhagen Centre on Energy Efficiency
		Reflections to the conference output, TBC
		BEHAVE 2022 - the way forward
		Copenhagen Centre on Energy Efficiency (C2E2) closing
		remarks



