ZEW

11th Mannheim Conference on Energy and the Environment

8 – 9 May 2023, Mannheim · Conference venue: ZEW

PROGRAMME				MONDAY, 8 MAY 2023	
08:30 – 09:00	ARRIVAL AND REGISTRATION				
09:00 - 09:15	WELCOME ADDRESS: SE	BASTIAN RAUSCH (ZEW N	ANNHEIM AND UNIVERS	ITY OF HEIDELBERG)	
09:15 – 10:15	KEYNOTE I: WOLFRAM SCHLENKER (COLUMBIA UNIVERSITY) ROOM EUROPE				
10:15– 10:45	COFFEE BREAK				
10:45 – 12:15	PARALLEL SESSIONS I I-A: AIR POLLUTION I	I-B: FIRM-LEVEL DECARBONIZATION	I-C: HOUSEHOLD ENERGY CONSERVATION	I-D: INTERNATIONAL ECONOMICS OF EMISSIONS TRADING	
12:15 – 13:30	LUNCH BREAK				
13:30 – 15:00	PARALLEL SESSIONS II II-A: CLIMATE FINANCE	II-B: CLIMATE POLICY AND FIRMS	II-C: PRIVATE PROVISION OF PUBLIC GOODS	II-D: ELECTRICITY MARKETS	
15:00- 15:30	COFFEE BREAK				
15:30 – 17:00	PARALLEL SESSIONS III III-A: CRISES AND THE ENVIRONMENT	III-B: POLICY INCIDENCE AND INEQUALITY	III-C: CARBON PRICING ACCEPTANCE	III-D: OPTIMAL TAXATION	
17:00 – 17:15	TRANSITION BREAK				
17:15 – 18:15		HANG (IMPERIAL COLLEG	GE LONDON) ROOM EUR	OPE	
19:30	CONFERENCE DINNER				
PROGRAMME				TUESDAY, 9 MAY 2023	
09:00 – 10:30	PARALLEL SESSIONS IV IV-A: HEALTH AND THE ENVIRONMENT	IV-B: ADAPTATION TO EMISSIONS TRADING	IV-C: SOCIAL NORMS	IV-D: WEATHER AND THE HOUSING MARKET	
10:30-11:00	COFFEE BREAK				
11:00 - 12:00		IETCALFE (UNIVERSITY C	F SOUTHERN CALIFORN	IA) ROOM EUROPE	
12:00 - 12:30	HEINZ-KÖNIG AWARD F	UNDED BY MVV ENERGIE			

20110	BREAK			
13:30 – 15:00 PARAL	LEL SESSIONS V R POLLUTION II	V-B: ETS AND INNOVATION	V-C: NUDGING SUSTAINABLE BEHAVIOUR	V-D: ELECTRIFYING TRANSPORTATION



15:00 - 15:45	COFFEE BREAK
15:45 – 16:45	KEYNOTE IV: LINT BARRAGE (ETH ZURICH) ROOM EUROPE
17:00	FAREWELL



08:30 – 09:00	ARRIVAL AND REGISTRATION				
09:00 – 09:15	WELCOME ADDRESS (ROOM EUROPE)				
	Sebastian Rausch (ZEW Mannheim a	and University of Heidelberg)			
9:15 – 10:15	KEYNOTE I: DIFFERENCES IN OB	SERVED WARMING TRENDS WITHIN	I US CITIES AND IMPLICATIONS FOR	R INEQUALITY (ROOM EUROPE)	
	Wolfram Schlenker (Columbia Unive	ersity)			
	Chair: Ulrich Wagner (Mannheim Ur	niversity)			
10:15 – 10:45	COFFEE BREAK				
10:45 – 12:15	PARALLEL SESSION I-A: AIR POLLUTION I (ROOM EUROPE)	PARALLEL SESSION I-B: FIRM-LEVEL DECARBONIZATION (MEDIA ROOM)	PARALLEL SESSION I-C: HOUSEHOLD ENERGY CONSERVATION (ROOM 1)	PARALLEL SESSION I-D: INTERNATIONAL ECONOMICS OF EMISSIONS TRADING (ROOM 2)	
	Chair: Angelika Budjan	Chair: Elisa Rottner	Chair: Madeline Werthschulte	Chair: Ulrich Wagner	
	DUST IN THE WIND: AIR POLLUTION AND INFANT MORTALITY IN INDIA	REVEALING FUTURE COMPLIANCE COSTS FROM PERMIT BANKING BEHAVIOR	MY COMMUNITY AND I: STIMULATING CONSERVATION AND LOAD SHIFTING THROUGH VIRTUAL ENERGY COMMUNITIES	EU CARBON PRICING AND CARBON BORDER ADJUSTMENT WHEN FIRMS ARE HETEROGENEOUS	
	Geoffrey Barrows, Hélène Ollivier and <u>Lucas Perez</u>	<u>Sylwia Bialek</u> and Jeffrey G. Shrader	<u>Mark A. Andor</u> , Julia Blasch, Lorenz Götte, Delia Niehues, Stephan Sommer and Lukas Tomberg	<u>Robin Sogalla</u>	
	Discussant: Angelika Budjan	Discussant: Elisa Rottner	Discussant: Madeline Werthschulte	Discussant: Ulrich Wagner	
	THE CAUSAL EFFECTS OF LONG- TERM EXPOSURE TO AIR POLLUTION: EVIDENCE FROM SOCIALIST EAST GERMANY	THE COST OF DECARBONIZING PORTLAND CEMENT	PREMIUM PROGRAMS AND ENERGY-SAVING INTENTIONS	GENERAL EQUILIBRIUM ASSESSMENT OF CHINA'S NATIONWIDE CO2 EMISSIONS TRADING SYSTEM	
	<u>Moritz Lubcyk</u> and Maria Waldinger	<u>Gunther Glenk,</u> Anton Kelnhofer, Rebecca Meier and Stefan Reichelstein	Manuel Frondel, <u>Andreas Gerster,</u> Kathrin Kaestner, Michael Pahle and Puja Singhal	Lawrence Goulder, Xianling Long <u>Chenfei Qu</u> and Da Zhang	
	Discussant: Lucas Perez	Discussant: Sylwia Bialek	Discussant: Mark A. Andor	Discussant: Robin Sogalla	

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	PERCEIVED CONTROL AND ATTENDANCE TO INFORMATION: EVIDENCE ON THE HEALTH RISKS OF AIR POLLUTION	WHY HAVEN'T CO2 EMISSIONS FROM GERMAN MANUFACTURING DECLINED? THE ROLES OF PREFERENCES, COMPETITIVENESS AND REGULATION	AGENTS OF CHANGE? – ENERGY ADVISORS AS KEY SUCCESS FACTOR FOR THE IMPLEMENTATION OF AN ENERGY EFFICIENCY ASSISTANCE PROGRAM	DESIGNING CREDIBLE CARBON BORDER ADJUSTMENTS TO PROMOTE COMPLIANCE. THEORY AND EMPIRICS
	Anca Balietti <u>, Angelika Budjan,</u> Tillmann Eymess and Alice Soldá	Kathrine von Graevenitz, Philipp Richter and <u>Elisa Rottner</u>	Bettina Chlond, Timo Goeschl, Martin Kesternich and <u>Madeline</u> <u>Werthschulte</u>	Alessia Campolmi, Harald Fadinger, Chiara Forlati, Sabine Stillger and <u>Ulrich Wagner</u>
	Discussant: Moritz Lubcyk	Discussant: Gunther Glenk	Discussant: Andreas Gerster	Discussant: Chenfei Qu
12:15 – 13:30	LUNCH BREAK			
13:30 - 15:00	PARALLEL SESSION II-A: CLIMATE FINANCE (ROOM EUROPE)	PARALLEL SESSION II-B: CLIMATE POLICY AND FIRMS (MEDIA ROOM)	PARALLEL SESSION II-C: PRIVATE PROVISION OF PUBLIC GOODS (ROOM 1)	PARALLEL SESSION II-D: ELECTRICITY MARKETS (ROOM 2)
	Chair: Paul Waidelich	Chair: Ara Jo	Chair: David Schulze	Chair: Jonas Savelsberg
	FUNDING MECHANISMS IN GREEN FINANCE	THE IMPACT OF CLIMATE POLICY ON MANUFACTURING EMPLOYMENT: FIRM-LEVEL EVIDENCE FROM GERMANY	PERCEIVED RELATIVE INCOME AND REVEALED PREFERENCES FOR PUBLIC GOODS	DISTRIBUTIONAL AND EFFICIENCY EFFECTS OF RENEWABLE ENERGY TRADING UNDER A CLIMATE TARGET: THE CASE OF THE EU
	<u>Philip Zilke</u>	Markus Janser, Stephen Jarvis, Robert Germeshausen, <u>Kathrine</u> <u>von Graevenitz</u> and Ulrich Wagner	<u>Anca Balietti</u>	Jan Abrell, Sebastian Rausch and <u>Jonas Savelsberg</u>
	Discussant: Paul Waidelich	Discussant: Ara Jo	Discussant: David Schulze	Discussant: Clément Leblanc



	RATE OF RETURN REGULATION REVISITED	WORKER FLOWS IN THE LOW CARBON TRANSITION	COMPLEXITY AND LEARNING EFFECTS IN VOLUNTARY CLIMATE ACTION: EVIDENCE FROM A FIELD EXPERIMENT	COMPARING THE SOCIAL BENEFITS OF VARIABLE RENEWABLE ENERGY PROJECTS
	Karl Dunkle Werner and <u>Stephen</u> Jarvis	Ronald Bachmann, <u>Markus Janser</u> , Florian Lehmer , Christina Vonnahme	Daniela Flörchinger	<u>Clément Leblanc</u>
	Discussant: Philip Zilke	Discussant: Kathrine von Graevenitz	Discussant: Anca Balietti	Discussant: Jonas Savelsberg
	THE ROLE OF STATE INVESTMENT BANKS FOR RENEWABLE ENERGY TECHNOLOGIES IN OECD COUNTRIES	FIRM HETEROGENEITY, INDUSTRY DYNAMICS, AND CLIMATE POLICY	WHO WILL PROVIDE EFFORT TO PROTECT THE CLIMATE?	
	Paul Waidelich and Bjarne Steffen	Ara Jo and Christos Karydas	David Schulze	
	Discussant: Stephen Jarvis	Discussant: Markus Janser	Discussant: Daniela Flörchinger	
15:00- 15:30	Discussant: Stephen Jarvis COFFEE BREAK	Discussant: Markus Janser	Discussant: Daniela Flörchinger	
15:00– 15:30 15:30 – 17:00		Discussant: Markus Janser PARALLEL SESSION III-B: POLICY INCIDENCE AND INEQUALITY (MEDIA ROOM)	Discussant: Daniela Flörchinger PARALLEL SESSION III-C: CARBON PRICING ACCEPTANCE (ROOM 1)	PARALLEL SESSION III-D: OPTIMAL TAXATION (ROOM 2)
	COFFEE BREAK PARALLEL SESSION III-A: CRISES AND THE ENVIRONMENT (ROOM	PARALLEL SESSION III-B: POLICY INCIDENCE AND INEQUALITY	PARALLEL SESSION III-C: CARBON	
	COFFEE BREAK PARALLEL SESSION III-A: CRISES AND THE ENVIRONMENT (ROOM EUROPE)	PARALLEL SESSION III-B: POLICY INCIDENCE AND INEQUALITY (MEDIA ROOM)	PARALLEL SESSION III-C: CARBON PRICING ACCEPTANCE (ROOM 1)	TAXATION (ROOM 2)
	COFFEE BREAK PARALLEL SESSION III-A: CRISES AND THE ENVIRONMENT (ROOM EUROPE) Chair: Guglielmo Zappalà TURNING DOWN THE HEAT? RESPONSE TO THE ENERGY PRICE SHOCK IN GERMAN HOUSEHOLD	PARALLEL SESSION III-B: POLICY INCIDENCE AND INEQUALITY (MEDIA ROOM) Chair: José M. Labeaga DISTRIBUTIONAL IMPACTS OF RENEWABLE ENERGY TRANSITION	PARALLEL SESSION III-C: CARBON PRICING ACCEPTANCE (ROOM 1) Chair: Gustav Fredriksson CARBON PRICE SUPPORT WITH MIXED REVENUE USE AND	TAXATION (ROOM 2) Chair: Anna Sahari CAN THEY SORT IT OUT THEMSELVES? REGULATING EXTERNALITIES BETWEEN COASE
	COFFEE BREAK PARALLEL SESSION III-A: CRISES AND THE ENVIRONMENT (ROOM EUROPE) Chair: Guglielmo Zappalà TURNING DOWN THE HEAT? RESPONSE TO THE ENERGY PRICE SHOCK IN GERMAN HOUSEHOLD DATA Puja Singhal, Michael Pahle, Kathrin Kaestner, Andreas Gerster	PARALLEL SESSION III-B: POLICY INCIDENCE AND INEQUALITY (MEDIA ROOM) Chair: José M. Labeaga DISTRIBUTIONAL IMPACTS OF RENEWABLE ENERGY TRANSITION ON THE LOCAL LABOR MARKET	PARALLEL SESSION III-C: CARBON PRICING ACCEPTANCE (ROOM 1) Chair: Gustav Fredriksson CARBON PRICE SUPPORT WITH MIXED REVENUE USE AND REVEALED PREFERENCES Kathrin Kaestner, Michael Pahle, Antonia Schwarz, Stephan Sommer	TAXATION (ROOM 2) Chair: Anna Sahari CAN THEY SORT IT OUT THEMSELVES? REGULATING EXTERNALITIES BETWEEN COASE AND PIGOU Daniel Heyen and Philipp

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19:30	CONFERENCE DINNER				
	Chair: Kathrine von Graevenitz (ZEW	Mannheim and Mannheim University)			
	Shuang Zhang (Imperial College Lond	don)			
17:15 – 18:15	KEYNOTE II: CAN THE MARKET TAME CO2 EMISSIONS OF THE NO.1 EMITTER? (ROOM EUROPE)				
	Discussant: Janna Axenbeck	Discussant: Tom Zeising		Discussant: Takahiko Kiso	
	<u>Guglielmo Zappalà</u>	Ander Iraizoz and José M. Labeaga		Marita Laukkanen and <u>Anna Sahari</u>	
	SECTORAL IMPACT AND PROPAGATION OF WEATHER SHOCKS	INCIDENCE AND AVOIDANCE EFFECTS OF SPATIAL FUEL TAX DIFFERENTIALS: EVIDENCE USING REGIONAL TAX VARIATION IN SPAIN		VEHICLE SCRAPPAGE SUBSIDIES AS A CLIMATE POLICY TOOL: PROGRAM EFFECTS ON NEW CAR EMISSION INTENSITY	
	Discussant: Puja Singhal	Discussant: Ron Chan	Discussant: Kathrin Kaestner	Discussant: Daniel Heyen	
	<u>Janna Axenbeck</u> , Irene Bertscheka, Patrick Breithaupt and Daniel Erdsiek	Anca Balietti, Zain Chaudhry, and <u>Tom Zeising</u>	Lint Barrage and <u>Gustav</u> <u>Fredriksson</u>	<u>Takahiko Kiso</u>	
	FIRM DIGITALISATION AND MOBILITY DO COVID-19- RELATED CHANGES PERSIST?	THE EFFICIENCY OF ENVIRONMENTAL AUDITS AND THEIR ROLE IN REDUCING AIR POLLUTION INEQUALITY IN THE US	IN THE HEAT OF THE MOMENT: CARBON PRICING SUPPORT IN A NATIONAL REFERENDUM	TARGETING OF CORRECTIVE SUBSIDIES	



PROGRAMME TUESDAY, 9 MAY 2023

09:00 – 10:30	PARALLEL SESSION IV-A: HEALTH AND THE ENVIRONMENT (ROOM EUROPE)	PARALLEL SESSION IV-B: ADAPTATION TO EMISSIONS TRADING (MEDIA ROOM)	PARALLEL SESSION IV-C: SOCIAL NORMS (ROOM 1)	PARALLEL SESSION IV-D: WEATHER AND THE HOUSING MARKET (ROOM 2)
	Chair: Julian Wichert	Chair: Michael Pahle	Chair: Julien Picard	Chair: Lennart Vogelsang
	BURYING THE LEAD: EFFECTS OF PUBLIC LEAD SERVICE LINE REPLACEMENTS ON BLOOD LEAD LEVELS AND PROPERTY VALUES	CARBON COST PASS-THROUGH IN EUROPEAN AVIATION	CORRECTING MISPERCEPTIONS ABOUT TRENDS AND NORMS TO ADDRESS WEAK COLLECTIVE ACTION	URBAN POLICY AND SPATIAL EXPOSURE TO ENVIRONMENTAL RISK
	Michelle Marcus	<u>Adrián Santonja</u> , Jordi J. Teixido and Aleksandar Zaklan	<u>Hanna Fuhrmann-Riebel</u> , Ben D'Exelle, Kristian López Vargas, Sebastian Tonke and Arjan Verschoor	Augusto Ospital
	Discussant: Julian Wichert	Discussant: Michael Pahle	Discussant: Julien Picard	Discussant: Lennart Vogelsang
	EXTREME WEATHER EVENTS AND HUMAN CAPITAL: EVIDENCE ACROSS DEVELOPING COUNTRIES	THE EFFECT OF CARBON PRICING ON LOW-CARBON TECHNOLOGY DIFFUSION	COMPARING AND COMBINING TWO POPULAR BEHAVIORAL INTERVENTIONS: IMPACTS ON BEHAVIOR AND WELFARE	INLAND FLOODING: ESTIMATING DAMAGES AND PROTECTION FROM INSURANCE
	Uwe Sunde and <u>Julian Wichert</u>	Xavier Fageda and <u>Jordi Teixido</u>	Mark A. Andor, Lorenz Gotte, Michael K. Price, Anna Schulze Tilling and <u>Lukas Tomberg</u>	<u>Timothy Foreman</u> , Ana Varela Varelab and Jason Wong
	Discussant: Michelle Marcus	Discussant: Adrián Santonja	Discussant: Hanna Fuhrmann- Riebel	Discussant: Augusto Ospital



		THE EMERGING ENDGAME: THE EU ETS ON THE ROAD TOWARDS CLIMATE NEUTRALITY	WHEN NUDGES RICOCHET, BEHAVIOURAL SPILLOVERS OF SOCIAL NORM NUDGES PROMOTING VEGETARIANISM	URBAN HEAT AND RESIDENTIAL SORTING IN NEW YORK CITY		
			<u>Julien Picard</u> and Sanchayan Banerjee	Stefan Borsky, Eric Fesselmeyer and <u>Lennart Vogelsang</u>		
		Discussant: Jordi Teixido	Discussant: Lukas Tomberg	Discussant: Timothy Foreman		
10:30 - 11:00	COFFEE BREAK					
11:00 - 12:00	KEYNOTE III: WHAT HAS THE CREDI	BILITY REVOLUTION DONE FOR CLIMA	TE CHANGE POLICY? (ROOM EUROPE)		
	Robert Metcalfe (University of Sout	hern California)				
	Chair: Martin Kesternich (University Paderborn and ZEW Mannheim)					
12:00 - 12:30	HEINZ-KÖNIG AWARD CEREMONY Laudatio: Georg Müller (MVV) and S	WITH CHAMPAIGN RECEPTION Sebastian Rausch (ZEW and University o	f Heidelberg)			
12:30 - 13:30	LUNCH BREAK					
13:30 – 15:00	PARALLEL SESSION V-A: AIR POLLUTION II (ROOM EUROPE)	PARALLEL SESSION V-B: ETS AND INNOVATION (MEDIA ROOM)	PARALLEL SESSION V-C: NUDGING SUSTAINABLE BEHAVIOUR (ROOM 1)	PARALLEL SESSION V-D: ELECTRIFYING TRANSPORTATION (ROOM 2)		
	Chair: Marion Leroutier	Chair: Armin Schmutzler	Chair: Laura Schwab	Chair: Alberto Salvo		
	BAD FOR BUSINESS? THE IMPACT OF AIR QUALITY ON FIRM OUTCOMES IN GERMANY	CARBON PRICING AND INNOVATION: THE IMPACT OF THE EUROPEAN CARBON TRADING SYSTEM	ON THE PREFERENCES OF TENANTS FOR ENERGETIC MODERNIZATION: EVIDENCE FROM A STATED CHOICE EXPERIMENT	WOULD YOU LIKE TO SUPER-SIZE YOUR CAR? THE EFFECT OF ENVIRONMENTAL SUBSIDIES ON EMISSIONS		
	<u>Roman Eric Sieler</u> , Beat Hintermann and Corrado Di Maria	Markus Trunschke	<u>Thilo K.G. Haverkamp</u> and Andreas Ziegler	<u>Ilona Tsanko</u>		
	Discussant: Marion Leroutier	Discussant: Armin Schmutzler	Discussant: Laura Schwab	Discussant: Alberto Salvo		



	THE EFFECT OF AIR POLLUTION ON US AGGREGATE PRODUCTION	THE EU ETS IMPACT ON FIRMS GREEN INVESTMENT	CHANGING CONSUMPTION BEHAVIOR WITH CARBON LABELS: CAUSAL EVIDENCE ON BEHAVIORAL CHANNELS AND EFFECTIVENESS	ADOPTION OF PLUG-IN ELECTRIC VEHICLES: THE ROLE OF SOLAR PV AND GOVERNMENT INCENTIVES	
	Antonio Avila-Uribe	<u>Xavier Koch</u>	Anna Schulze Tilling	<u>Davide Cerruti</u> , Massimo Filippini and Jonas Savelsberg	
	Discussant: Roman Eric Sieler	Discussant: Markus Trunschke	Discussant: Thilo K.G. Haverkamp	Discussant: Ilona Tsanko	
	THE COST OF AIR POLLUTION FOR WORKERS AND FIRMS	PROVIDING INNOVATION INCENTIVES FOR THE GREEN TRANSITION	REDUCING TRANSPORTATION EXTERNALITIES THROUGH NUDGING: RESULTS FROM A GPS- TRACKED EXPERIMENT	TRANSIT BUS ELECTRIFICATION RAISES COMMUTER DEMAND: EVIDENCE FROM SINGAPORE	
	<u>Marion Leroutier</u> and Hélène Ollivier	<u>Armin Schmutzler</u>	<u>Laura Schwab</u>	Alberto Salvo and Timothy Wong	
	Discussant: Antonio Avila-Uribe	Discussant: Xavier Koch	Discussant: Anna Schulze Tilling	Discussant: Davide Cerruti	
15:00 – 15:45	COFFEE BREAK				
15:45 – 16:45	KEYNOTE IV: ENERGY TAX INTERACTIONS WITH THE BROADER ECONOMY: (SOME) NEW FINDINGS AND FRONTIERS (ROOM EUROPE)				
	Lint Barrage (ETH Zurich)				
	Chair: Sebastian Rausch (ZEW Mannl	neim and University of Heidelberg)			
16:45	FAREWELL				