



Centre for Climate
and Energy Transformation

ANNUAL REPORT 2023





Actionable knowledge for transformation.

About CET

Climate change is one of the greatest societal challenges of our time. While we have acquired substantial knowledge about physical climate changes and their impacts on society, new knowledge is needed on how to achieve rapid, just and deep transformation of society.

The Centre for Climate and Energy Transformation (CET) is based at the Faculty of Social Sciences and is a hub for interdisciplinary research with a basis in the social sciences in this area. CET brings together researchers from three partner institutions - the University of Bergen, NORCE Norwegian Research Centre AS and NHH Norwegian School of Economics.



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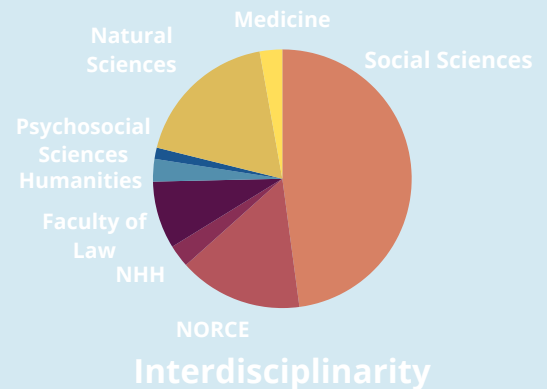
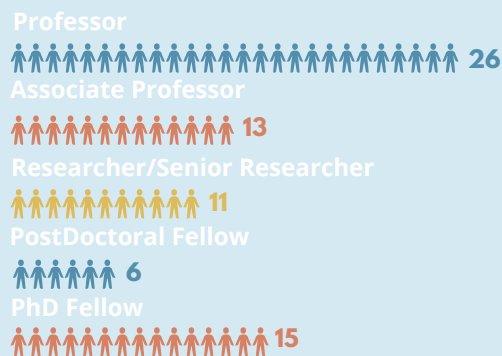
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People

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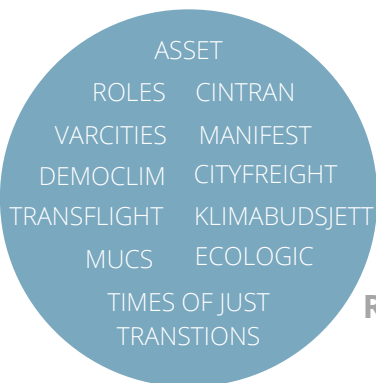
Affiliated
researchers



Research

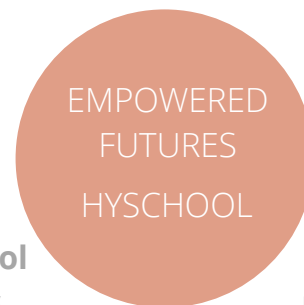
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projects



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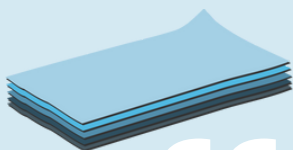
Research school
partnerships



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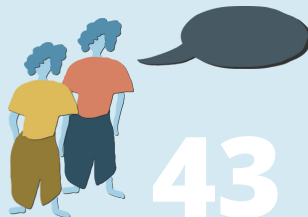
Accelerator
projects granted

Publications & Outreach



66

CET Scientific
Publications



43

Media
Engagements



46

CET Lunch Seminars
Workshops & Events



499

CET Lunch
Attendees

CET Strategy 2023 - 2026

CET aims to produce actionable knowledge that can inform policy and practice about how to achieve rapid, just and deep transformation of society

HIGH-QUALITY
RESEARCH

ADVANCE
TRANSFORMATION
IN SOCIETY

KNOWLEDGE
HUB

WORDS FROM THE DIRECTOR



People shape places, and places shape people. We began a new chapter for CET as we moved into our new offices in Christies gate.

Although we enjoyed being close to both the geographers and media studies colleagues, we had grown out of the offices in Fosswinkel's gate. The new offices give us a bit more room, and places us more centrally between the different departments in the Faculty of Social Science.

Offices do not make a research centre. But they can help us create the atmospheres we want, and help us make spaces for both the collaboration and focused work that we need to do interdisciplinary research well. Thanks to the Faculty for making this possible!

In this annual report we look back on a very exciting year. We held the fifth Beyond Oil conference – always a highlight. We maintained the strong trend in scientific publishing – both in terms of the number of publications and with key contributions to the research frontier. In 2023, CET produced more than one scientific publication per week (66 in total) and organised almost one event per week (46 in total). One publication was highlighted in *The Guardian*. We had well-attended seminars, and contributed to *Rosendalsveko*, *Varmere Våtere Villere*, *Bærekraftsamtalet*, *Day Zero*, the *Research Fair (Forskningstorget)*, and a lot more.

It has also been rewarding for us to follow CET graduates who are out there in jobs, making a difference to the climate transformation. We are proud of the CET alumni, many of whom work in municipalities, other research institutions, and some in the private sector – for the work you are doing. And we do our best to keep in touch and look for new opportunities to collaborate.

So far, 2024 does not look like it is going to make it any easier to create meaningful impact to solve the climate crisis. Let's keep up our alliances, collaborations and partnerships to achieve what we can.



Håvard Haarstad
CENTRE DIRECTOR

PEOPLE

There are over 20 people working from the CET offices, with a mix of researchers spanning from research assistants to professors and administrative staff. In addition, we have five master students that are an active part of our research environment.

Senior research capacity

Simon Neby, Silje Kristiansen, and Håvard Haarstad form CET's senior researcher team.

Silje was selected for UiB's Momentum program in 2023 for early-stage researchers.

CET, in collaboration with UiB's Department of Geography, opened an associate professor position with an application deadline in November 2023.

Additionally, in 2023, Jakob Grandin returned as an associate professor II after completing his Ph.D. and will lead the work on the award winning Collaboratory and CET 201

Siddharth Sareen advanced from Associate Professor to Professor in 2023, and in March he won The Royal Norwegian Society of Sciences and Letters' (DKNVS) annual prize for young researchers. Congratulations!

Jessica Jewell actively participates in research proposals, supervision and other research activities through her Professor II position at CET.



Simon Neby
Dept. of Government
Professor



Silje Kristiansen
Dept. of Information
Science and Media Studies
Associate Professor



Jessica Jewell
Chalmers University of Technology
Professor II
2020 - 2026



Siddharth Sareen
University of Stavanger
Professor II
2020 - 2023



Jakob Grandin
City of Bergen
Associate Professor II
2023 - 2025

Recruitment positions



Some of the new faces at CET in 2023, from left: Thea Kopperud, David Weinreich, Janne Bjørgan and Johan Elfving, absent: Christine van der Horst and Richard Andresen.

During 2023 we recruited one postdoc, two PhD candidates, and four research assistants.

Researchers we welcomed to CET in 2023:

- Christine van der Horst started in March as a PhD Candidate on the EcoLogic project.
- Janne Bjørgan started as PhD Candidate in July. Silje Kristiansen is her main supervisor.

- David Weinreich started in August as a PostDoc. His research is in transport governance.

Four research assistants were engaged in 2022:

- Thea Kopperud is working with CET's senior researchers.
- Johan Elfving worked with postdoc Mahir Yazar on C40 cities and climate justice.
- Tekla Vollen worked with the Beyond Oil Conference.
- Richard Andresen worked with postdoc Mahir Yazar on populism and climate change, funded by the Accelerator Grant.

For the first time we welcomed an intern from the PRAKTINF course. Tanya Bykova worked together with our communications manager on communications work and the Beyond Oil conference.

You can read her summary of the Beyond Oil conference on **page 13**.

CETlers move on

An important function of our centre is to provide our researchers with the competence to work in positions inside and outside of academia. In 2023 we bid farewell to many great people that have moved on to exciting positions.

The first to move on in 2023 was Jakob Grandin who is now a senior advisor at the Climate Agency in Bergen municipality. Luckily for us, Jakob is connected to CET through his associate professor II position.

Jakob was followed by our research assistant Sofie Jordheim who now works as a climate advisor at the Climate Agency in Bergen municipality.

Researcher Solveig Høegh-Krohn started as a PhD candidate on the ERC project PREPARE led by our colleagues at the Department of Information Science and Media Studies, UiB.



The CET wall of fame is on our communal fridge. Photo: Judith Dalsgård

Brooke Wilkerson started working as a Senior Researcher with our partners at NORCE after submitting her thesis *Systems approaches to sustainability: Innovation and social-ecological-technological systems*. Read about her thesis on **page 10**.

Affiliate research network

In April 2023 we organized a workshop for the affiliate network to discuss project ideas and what is next for our research. We broadly discussed future project ideas and ways to meet energy and climate challenges with interdisciplinary collaboration. Engaging with our affiliate network is vital and allows us to explore new ideas and perspectives with the context of climate and energy transformation.

Our hybrid CET lunches are the main meeting points for the CET affiliates. These meetings had a record-high attendance in 2023 (499 in total), and we are very thankful to our research network for their engagement and involvement in CET events. Our affiliate newsletter EtCETera comes out bimonthly and keeps our network up to date on what happens at CET.

In 2023 there were **71** researchers affiliated with CET, most of them from the University of Bergen and predominantly the Faculty of Social Science and the Faculty of Mathematics and Natural Science.



Engaging discussions at the CET affiliate workshop in April 2023 Photo: Janne Bjørgan

CET Affiliate network

Professor

26

Associate Professor

13

Researcher/Senior Researcher

11

PostDoctoral Fellow

6

PhD Fellow

15

RESEARCH

Project grants 2023

CET is partner in a successful project proposal in 2023:

- **CIRCULAR** – Collaborative innovation for reduced consumption: What governance factors drive transition from a linear to a circular economy? Led by Hege Hofstad, OsloMet. The Research Council of Norway.

A full list of projects at CET is available in **Annex 4** (page 33).

Partnerships

CET is represented in several leadership groups and boards at UiB and other institutions:

- Noradapt – Norwegian Research Centre on Sustainable Climate Change Adaptation
- BSGS – Bergen School of Global Studies
- The Norwegian Board of Technology
- Steering committee strategic priority area for climate and energy transition, UiB
- Program Committee, SDG Conference in Bergen
- The National Sustainability Committee

Running projects



Accountable Solar Energy Transitions

Led by Siddharth Sareen, University of Stavanger/CET. RCN.

Highlights from the project:

- PhD candidate Shayan Shokrgozar conducted long-term fieldwork in Rajasthan, India, collaboratively with Steven Wolf, James McCarthy and Siddharth Sareen
- The books *The sun also rises in Portugal: Ambitions of just solar energy transitions* and *Geographies of solar energy transitions: Conflicts, controversies and cognate aspects* published



Freight logistics in sustainable cities,

Led by Stein Wallace, Norwegian School of Economics (NHH). RCN.



Cities confronted by protests: Democratic governance for efficient and socially just climate transformation. Led by Hege Hofstad, OsloMet. RCN.



The logic of measuring, managing and governing ecosystems (EcoLogic)
Led by Gisle Andersen, NORCE. RCN.

Highlights from the project:

- Analysis of survey and interview data
- Several publications published, in Urban Studies, Cities, and Rafael Rosales submitted his PhD thesis
- Several meetings with user partners to present and discuss results from the project

Highlights from the project:

- Moved into analysis and publication phase, with articles submitted to geography and political science journals
- Contributed to report for the government-appointed committee on Climate Transition towards 2050

Highlights from the project:

- The project researchers collected and analyzed documents related to environmental policy and management of ecosystems in Sweden and Norway
- PhD candidate Christine van der Horst conducted 6 weeks of fieldwork in Finnmark



Photo: Getty Images

Navigating the social and environmental controversies of low-carbon energy transition. Led by John-Andrew McNeish, NMBU. RCN.

Highlights from the project:

- Welcomed first cohort of PhD students to the first physical gathering, a communications workshop in Bergen with Benjamin Sovacool
- Organised PhD course in Rjukan and fieldtrip in Stavanger



Photo: From the manifest webpages

Mapping the Future for Feasible Climate Action. Led by Jessica Jewell, Chalmers University/CET. ERC.

Highlights from the project:

- Presentations on recent developments of CCS deployment by PhD Tsimafei Kazlou
- Jessica Jewell was invited to testify at an Interparliamentary conference on the energy challenges facing Europe



Photo: Colourbox.com

Media Use in Crisis Situations: Comparing Climate Change and COVID-19. Led by Brita Ytre-Arne, UiB. RCN.

Highlights from the project:

- In-depth interviews with a panel of informants in Western Norway
- Several presentations at the NordMedia conference in Bergen
- Conducted workshop with climate journalists from Western Norway



Photo: Ed Hawkins

Exploring the role of temporal frames in enabling and impeding democratic and equitable transitions towards sustainable futures.

Led by Keri Facer, Uni. Bristol. British Academy

Highlights from the project:

- Preparations for 'open futures dialogues' to mediate polarization around climate change
- Preparations for Time Lab in Bergen with all programme members to be held in Bergen in June 2024



Photo: Colourbox.com

Shaping the future of air travel. Led by Alfred Posch, Uni. Graz. Klima og energie fond.

Highlights from the project:

- Arranged a workshop series that brought together key stakeholders from leisure, business, and academic travel sectors
- Grandin and Schrage developed a systematic literature review of the strategies and measures to address carbon lock-ins in air travel demand in Europe



Photo: White Arkitekter

Visionary nature-based actions for wellbeing & resilience in cities. Led by Dionysia Kolokotsa, TSI, EU Horizon 2020

Highlights from the project:

- Finalisation of interview material and analysis
- Submission of the deliverables – a report on governance challenges and solutions in implementing nature-based solutions in pilot cities
- Article presented at the Liveable Cities conference in New York (virtual) and submitted to academic journal

RESEARCH



Photo: Colourbox.com

Carbon Intensive Regions in Transition - Unravelling the Challenges of Structural Change

Led by Lukas Hermwille, Wuppertal Institute. H2020.

The phasing out of fossil fuel consumption in the power sector is inevitable, and decarbonisation will herald deep structural changes and may cause social inequalities and hardship. The EU-funded CINTRAN project studied the structural changes to find ways to minimise the risks. The project conducted quantitative model-based research and qualitative analysis, focusing on carbon-intensive regions of Greece, Poland, Estonia, and Germany.

CET has led a task in a work package of the socio-political challenges amid regional energy transition. Specifically, the far-right populist parties in Germany, Estonia and Poland are closely examined: focusing on their institutional tactics aimed at dismantling institutions to create obstruction, as well as their discursive rhetoric, which targets democratic institutions and liberal values along with energy transitions. This work delivered a final report, and published two articles in the journals *Political Geography*, and *Regional Sustainability*, and a policy brief presented at the event *New Challenges to Democracy* at the European Commission.

Researchers from CET

Mahir Yazar, Postdoctoral fellow & Professor Håvard Haarstad



Photo: Siddharth Sareen

Digitalisation of energy infrastructure can enhance sustainable energy use

Led by Siddharth Sareen, University of Stavanger/CET. RCN.

Societies are rapidly digitalising energy infrastructures as a way to electrify sectors and decarbonise energy systems using low-carbon electricity production. Yet this twin transition of digitalisation and decarbonisation is not necessarily socially inclusive, in fact quite rarely so. ROLES examined and engaged with urban twin transitions in three sectors and three countries during 2020-2023: smart urban transport in Bergen and Stavanger, Norway; smart electric meters in Trento, Italy; and smart local (solar) energy systems in Brighton in the UK.

Researchers from CET

Siddharth Sareen, Professor II & Devyn Remme who wrote her Master thesis as part of the ROLES project.



Our wide-ranging scientific outputs (over 40 of them!) can be boiled down to these three keywords: Including, Organising, and Commoning. Using multi-sited ethnographic techniques - including under pandemic circumstances - the dozen-plus project members interacted with diverse stakeholders and perspectives to identify pathways for socially inclusive digitalisation of energy infrastructure in and across sectors and cities. We also embraced a no-fly protocol, with the only in-person consortium meeting being in Groningen using surface transport. Friendships and collaborations continue thriving beyond the project.



Researchers from CET

Jesse Schrage, Researcher



How can municipalities and regions make the next generation of climate plans?

Led by Hans Jakob Walnum, Vestlandsforskning. RCN.

In 2023, the project stimulated capacity building for the local and regional climate planning work of project partners. In the project, CET (Schrage) produced three policy briefs, one for each project partner, detailing the emissions reductions required to meet their respective share of the Paris Agreement goals.

The project is now moving into an engagement phase with project partners. After having mapped the range of consumption-based policies that can be implemented at the local level by Norwegian municipalities. This project is now in its final phase and engages with the project partners in assessing what policy options are feasible at the local level in Norway. Based on a gaming methodology, this work aims to understand the strategies for advancing ambitious policies for reduced consumption-based emissions. This will generate both theoretical and applied knowledge relevant to other municipalities in Norway.

PhD Defense



Brooke Wilkerson

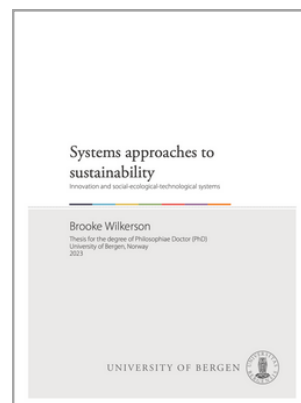
Systems approaches to sustainability - Innovation and social-ecological-technological systems

In her thesis, Brooke addresses the broad research question: How can systems approaches help understand and inform transitions towards sustainability?

The main conclusion of this thesis is that system methods have the potential to improve how problems are defined in innovation and planning processes, and to promote shared learning and understanding of complex sustainability issues. The methods developed in this thesis particularly support a more nuanced and complex understanding of sustainability that is deemed useful by various types of practitioners.

The opponents in the public defense were Associate Professor Nuno Videira, FCT NOVA University, Lisbon and Senior Research Associate Peter Barbrook-Johnson, Institute for New Economic Thinking, The Oxford Martin School, University of Oxford. The chair of the committee was Professor Ali Saysel, Department for geografi, Universitetet i Bergen. Brooke's supervisor was Birgit Kopainsky, UiB.

The defense was a digital defense with Brooke's colleagues, friends and family following at a watch party in the CET offices.



PUBLICATIONS

In 2023 CET's researchers has published **66** scientific publications including reports and policy briefs. The CET Affiliate network has in total published **104** scientific publications on climate and energy. CET affiliates have also been involved in **43** engagements with the media. Here are a few highlights. See full list in **annex 1-3** (page 25)



Photo: Judith Dalsgaard/CET

Haste: The slow politics of climate urgency

What does it mean politically to construct climate change as a matter of urgency? In this edited book, consisting of 23 short and accessible chapters, with many contributions from CET researchers, *Haste* tackles a major problem in contemporary climate change research and offers creative perspectives on pathways out of the climate emergency. The book was launched at Bergen Public Library, with local politicians, and at the Winter Seminar for Human Geographers at the University of Oslo.

Haarstad, H., Grandin, J., Kjærås, K., Johnson, E. (Eds) (2023) *Haste: The slow politics of climate emergency* UCL Press.



Photo: Uan Lim on Unsplash

Climate crisis, climate risk and the framing of Norwegian climate policies

In this article, based on the RISKSEC project, the authors argue that although terms such as “climate crisis”, “urgency” and “code red for humanity” indeed have become part of our daily conversations about climate policies, there is little evidence of Norwegian politicians treating the climate issue as an exceptional emergency. What they do see, however, is an incremental shift towards framing climate issues as risk, but within governance frameworks that signal a “business as usual approach.”

Neby, S., O.A Engen, C. Morsut and E. Angell (2023) *Klimakrisen, klimarisiko og innrammingen av norsk klimapolitikk*. *Stat & Styring* 33(2): 16-21.

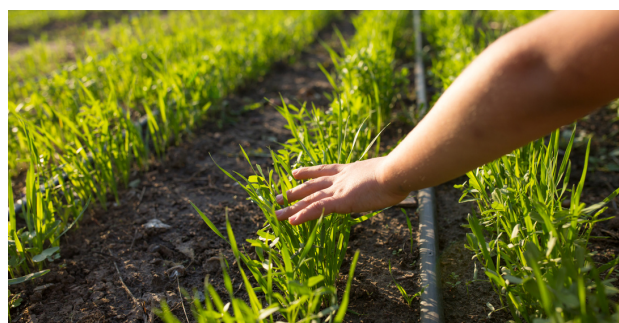


Photo: Colourbox.com

Communicating Transformation in Food and Agricultural Ecologies.

In the introduction to this special issue in *Environmental Communications* the authors explore the many environmental communications issues that the food system chain encompasses. The authors use the expression “Eating for change” as a reference to the reality that inevitably, what a person eats, how one eats, and the way that one eats function as situated affirmations, negotiations, or rejections of foodways, food systems, and their politics.

Singer, N., & Kristiansen, S. (2023) *Communicating Transformation in Food and Agricultural Ecologies*, *Environmental Communication*, 17:8, 861-867,



Photo: Colourbox.com

Do EU goals matter? Assessing the localization of sustainable urban logistics governance goals in Norwegian cities

To what extent are EU goals and policies integrated and used in the governance of Norwegian logistics? The authors use a novel methodology to investigate the effects that EU has had on the largest Norwegian cities. They find that Norwegian cities have adopted or mirrored EU discourses on urban logistics over time, but that there is little trace of increased resource use. In other words, the cities are talking the talk, but do not seem to walk the walk.

Shrestha, S. & Haarstad, H. (2023) *Do EU goals matter? Assessing the localization of sustainable urban logistics governance goals in Norwegian cities*. *Cities*, 137.



Developing positional awareness in sustainability science: four archetypes for early career scientists working in an SDG world

In this article, the authors describe four archetypes at play in sustainability research and argue that these positions allow early career researchers (ERCs) to reflexively navigate their roles and purposes in sustainability research. Although the SDGs provide a framework to guide and inform research at the interface between science and policy, engaging in sustainability science is not a value-free process and implies making a number of choices. The article proposes a framework to help early career sustainability scholars navigate these tensions.

Schrage, J., A.D. Barraclough, B. Wilkerson, J. Cusens, and J. Fuller (2023) Developing positional awareness in sustainability science: four archetypes for early career scientists working in an SDG world. *Sustainability Science* 18(2): 1053-1058



Anger is most powerful emotion by far for spurring climate action, study finds

A study from CET Affiliates Thea Gregersen, Gisle Andersen and Endre Tvinnereim in *The Guardian*. The study is based on data from the Norwegian citizens panel and found the link to activism was seven times stronger for anger than it was for hope.

Gregersen, T., Andersen, G., Tvinnereim, E. (2023) The strength and content of climate anger, *Global Environmental Change*



Making low-carbon places - Norwegian Journal of Geography

In the introduction to their Special Issue (SI) for the Norwegian Journal of Geography, the authors explore the pivotal question of Making Low-Carbon Places in the context of urgent climate mitigation goals. Alongside introducing the five articles in the SI, Sareen and colleagues delve into the synergy of and provide a conceptual anchoring for making, low carbon, and places, and on how these concepts entangle and evolve together. In sum, they underscore the need for relational analyses, place-specific approaches, and recognition of power dynamics in fostering low-carbon environments, setting the stage for further research on this critical theme.

Sareen, S., J.K. Fisker, S. Shokrgozar, and T. Sattich (2023) Making low-carbon places. *Norsk Geografisk Tidsskrift-Norwegian Journal of Geography* 77(3): 133-142.



Jeg sjekket, det er vits i å stemme grønt i kommunevalget

Juni Lund wrote an op-ed in *Bergens Tidende* in the lead up to local elections. Here she writes about the findings in her masters thesis she has written in as a CET master student. In her master thesis she has looked at the effect local politics have on the amount of emissions the municipality has in their elected period.

Lund, J. (2023) Jeg sjekket, det er vits i å stemme grønt i kommunevalget BT. 4.september 2023.

BEYOND OIL



CET Director Håvard Haarstad opens the fifth installment of the Beyond Oil conference. Photo: Thor Brødreskift

Beyond Oil: Refuelling Transformation. A collective reckoning of the present, informed by the past, facing the future.

In the cracks in the system, in the fractures in the wall – that's where the light shines through, CET Director Håvard Haarstad quoted Leonard Cohen as he opened the fifth installment of Beyond Oil on the 17th and 18th of October.

The Beyond Oil conference gathered researchers from all over the world, all eager to share and discuss their contribution to this year's theme: *Refuelling Transformation*. As a result, the House of Literature in Bergen was filled with over 100 people from 12 countries, with 57 presentations spread across 15 sessions, covering different perspectives and agendas, such as:

Between policy and practice, networks of energy, Local transformations, Perspectives on a Just Transition and Justice and policies in transformation.

Starting with a musical feature from Stephan Meidell, and closing with a spoken word from Aaron Tuckey, the atmosphere was set to be both insightful and inspirational throughout both days. This was captured in a beautiful way by our conference artist, Håvard Legreid.

Beyond Oil is a conference with a unique atmosphere that places dialogue at the centre.

Beyond Oil 2023 was no different: in between artistic features, panel discussions and keynotes, the participants were welcomed to spread across four rooms hosting parallel sessions. The sessions contained short presentations at a strict 8-minute rule, followed by free discussions with the speakers. This is where the magic happened - and "the Beyond Oil hum", as Håvard so accurately described it, could be heard bouncing off the walls at the literature house.



Stephan Meidell, PhD Candidate at the Grieg Academy opens Beyond Oil with a thought-provoking piece about resonance. Photo: Thor Brødreskift

It takes engagement, initiative and trust to make such a conference. Everyone involved played an important role in realizing this year's edition of the conference.

From the Beyond Oil committee planning the programme and logistics, the speakers introducing amazing research and the participants giving their insight and engagement, to Litteraturhuset handling the technicality and Bod24 serving plant-based dinner.

We deem Beyond Oil 2023 a success, a conference to remember for its ambiance, engagement and insightful conversation. Welcome back in 2025!

All photos by Thor Brødreskift

From top: -

- A full auditoriet ready for two days of the Beyond Oil conference
- Parallel sessions are a space for engaging conversations about new research frontiers
- Plenary session on Radical Transitions with Derk Loorbach, Marie Claire Brisbois and Helene Ahlborg
- Closing panel moderated by Silje Kristiansen
- The Beyond Oil Programme Committee.
- Spoken word artist Aaron Tuckey closes the conference.





Beyond Oil Artwork by Håvard Legreid

CET ACCELERATOR

CET Accelerator grants 2023

CET continues to support research communication and research project development through our funding program. In 2023, five applications received accelerator funding.



Mahir Yazar

Project: *Populist backlash episodes to climate policy and actions*

Grant type: Seed funding



Daniel Puig

Project: *RAIN: The Bergen adaptation conference*

Grant type: Ideas and communications



Thea Gregersen

Project: *"Folk mener" Dissemination of Norwegian Citizen panel results.*

Grant type: Ideas and Communication



Siddharth Sareen

Project: *Accountable solar energy transitions (impact workshop)*

Grant type: Ideas and communications



Daniel Puig

Project: *Adaptation: between institutional (in)effectiveness and intangible loss.*

Grant type: Seed funding

Completed accelerator project

Thea Gregersen, NORCE

Project: *"Folk mener" Dissemination of Norwegian Citizen panel results*

Grant type: Ideas and Communication

In 2023, the CET ideas and Communications grant supported the writing of four publications for the thematic page *Folk mener* in the online magazine *Energi og Klima* published by the foundation *Norsk Klimastiftelse*. Since 2019, Thea Gregersen and co-authors have regularly published results from the Norwegian Citizen Panel on this platform.

Energi og Klima state that its social mission is to "give decision-makers in politics, business, academia and organizations knowledge that better enables them to carry out the green shift". The short briefings focus on the Norwegian public's attitudes towards climate change and climate change-related policy and are collected on the thematic page *Folk Mener*. Everything that is published on the thematic page undergoes editorial review.

While the publications are first and foremost aimed at readers of the online magazine, the survey results are frequently picked up by larger media outlets and have led to invitations to a range of different forums. The money was additionally used to write two pieces (*Trendnotat*) for the newly launched website for the *Norwegian Citizen Panel*.

Articles published by Thea Gregersen

Er klimaendringene en trussel?
Published August 9th 2023

Bør økonomisk vekst prioriteres foran miljøinteresser?
Published August 15th 2023

Nordmenn undervurderer forsker-enighet om klimaendringer
Published August 21st 2023

Gjør Norge nok for å kutte utslipp?
Published September 4th 2023

Bekymring for klimaendringer
Published November 27th 2023

Klimaskepsis
Published November 27th 2023

EVENTS

Events are an important part of CETs outreach strategy and we continue to collaborate with key actors in our network.

By the year's end, we organised 46 events, including CET Lunch Seminars, workshops, panel debates and conferences.

The Day Zero event during the SDG Conference in Bergen has become a tradition for CET. This is the fifth year we organize an event during the conference. Two hybrid sessions were organized by researchers at CET: *What role for academia in a changing climate* and *Cognate aspects for accountable solar transitions*.

We continue our involvement in the *Bærekraftig Frokost i Bergen* network. CET organized a breakfast event on *Nature in the city* for a packed Ulrike's Aula. CET's communications manager Judith Dalsgård has also created a new design profile for the event series.

Our CET Lunches have been popular, with a total of 499 audience participants joining throughout the year. New this year was including a CET Lunch in the umbrella program of the *Varmere, Våtere, Villere* Climate Festival. We invited Marthe Elden Wilhelmsen from the University of Agder to present on "What are we really discussing when we talk about climate change" and set an audience record with over 60 people packed on the 9th floor.

Varmere våtere villere was held for the second time and two CET researchers were also involved in the main program for the Climate Festival.

CET hosted two delegations from the University of Vancouver and the Local Government Officials Development Institute in South Korea.

The autumn semester was kick-started with a panel at *Rosendalsveko*, involvement in two panels at *Arendalsuka* and *Bærekraftssamtalen* (Sustainability conversation) with *Sustainable Living*, *Landås*. Silje Kristiansen and Janne Bjørgan organised the *Rosendalsveko* panel on small-scale farming panel

Later in the autumn, CET organised, together with the *Climate Agency* in the City of Bergen and the *Bergen Film Festival*, a panel commenting on the film *Green City Living*.



From top: Siddharth Sareen and Shayan Shokrgozar at Day Zero 2024. Photo: Silje Kathrine Robinson
Haste book launch at Bergen Public Library. Photo: Judith Dalsgård
Silje Kristiansen moderates a panel conversation at Rosendalsveko 2023. Photo: Janne Bjørgan
Panel conversation at the Bergen Film Festival with the City of Bergen. Photo: Kjersti Hegsbro

The Holberg Prize

The Holberg Prize 2023 was awarded to Joan Martinez-Alier for his research in economics, political ecology and environmental justice. Håvard Haarstad was invited to be the academic contact for the prize winner and in May we organized a symposium with presentations from Tor Arve Benjaminsen (NMBU) and Anwesha Dutta (CMI) on Martinez-Alier's work.

During the Holberg week CET was involved in several events, Håvard Haarstad moderated the event *An Evening with the Holberg Prize* held at the House of Literature in Bergen. The recorded conversation between Håvard Haarstad and Joan Martinez-Alier was aired on NRK and the manuscript will be published in *Nytt Norsk Tidsskrift* in 2024.

CET PhD candidate Shayan Shokrgozar was selected to take part in the *Masterclass with Martinez-Alier: Political Ecology in the Arctic*.



The Holberg Prize Masterclass Photo: Eivind Senneset

The Science Research Fair

For the first time, CET was involved in the Science Research Fair during the Research Festival in Bergen, held on a rainy weekend in September.

In a big white tent in the middle of Torgallmenningen, we were visited by 1200 school students on Friday and around 3000 people on Saturday. Our station was titled *Become a climate myth-buster* and consisted of three activities.

Firstly, they were presented with a *climate dilemma* with three options to answer. Secondly, they were presented with cards with typical climate myths within four categories: Transport, Food, Consumption

and Climate & Energy.

Thirdly, they were invited to play with our CO2e Lego blocks where they could try and cut CO2e emissions in their daily lives.

All these posts invited the school students and citizens to interesting conversations on typical misconceptions of different aspects in climate change research. Also, reflections on whose responsibility climate action is and how do we achieve it. We were encouraged to see so many school students with great insight into climate change research.



COPRODUCTION

In 2023 CET researchers have been involved in several workshops with the co-production of knowledge at their core.

Co-production is an essential part of the actionable research conducted by CET. By creating arenas for transdisciplinary dialogue and knowledge production, we can gain a deeper understanding of the processes in society.

The future of aviation and travel

The Transflight workshop series, conducted in March 2023, brought together key stakeholders from the leisure, business, and academic travel sectors. Focused on the future of aviation and travel, the workshops explored contemporary best practices in international air travel and scrutinized the policy implications of the Paris Agreement for reducing air travel emissions. The overarching objective was to foster mutual learning and identify tangible opportunities for the rapid reduction of carbon emissions within respective organizations

Engagement with the City of Bergen

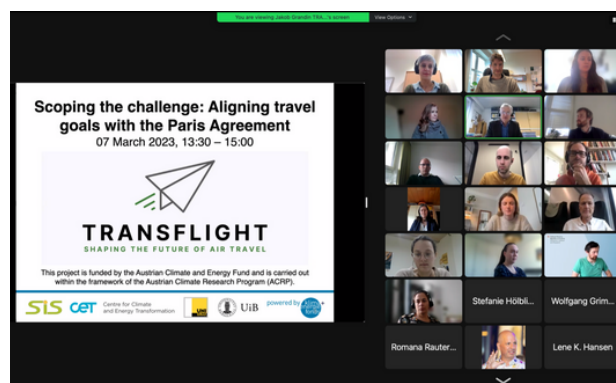
As part of the Klimabudsjett 2.0 project, CET researchers Sofie Jordheim and Jesse Schrage led a workshop that assessed whether the climate targets of Bergen Municipality are in line with the Paris Agreement temperature goals.

Additionally, Jesse Schrage and Håvard Haarstad held a research workshop with The City of Bergen's Climate Agency on the topic of *political feasibility in climate planning*. This workshop allowed researchers and urban planners to explore climate policies that were both disruptive and implementable, as well as identify the range of factors that contribute to discussing feasible climate politics locally.

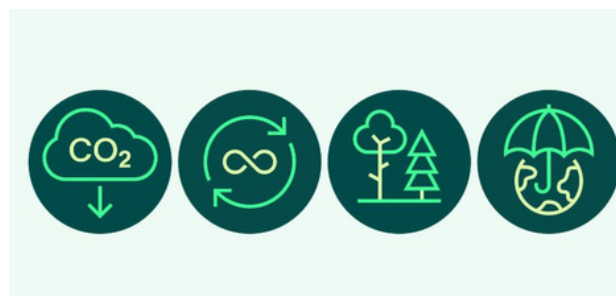
From the everyday to a climate emergency

In August CET and our colleagues on the Media Use in Crisis Situations (MUCS) project invited local journalists to a workshop on climate journalism.

The workshop included presentations on climate journalism by Astrid Rommetveit from NRK, Lars Ursin from *Energi og Klima* and Kristine Holmelid from SUJO (Centre for investigative journalism). The presentations were followed by a conversation led by Håvard Haarstad on what effective climate journalism.



Online workshops with the Transflight project. Photo: Jesse Schrage



"Grønn strategi" is the City of Bergen's Climate strategy photo: Bergen Kommune



MUCS climate journalism workshop photo: Judith Dalsgård/ CET



Solveig presents findings from her research photo: Judith Dalsgård/ CET

Solveig Høegh-Krohn worked as a researcher on the MUCS project at CET and presented findings from her research. She has interviewed people in Western Norway about climate and media use in their everyday life.

LOW-CARBON TRAVEL COMMITTEE

Since its launch in 2019, the **CET Low-Carbon Travel Policy** has been widely used as a source of inspiration for how to reduce climate gas emissions from academic activities. During 2023 CET continued the work of addressing travel emissions.

The Low-Carbon Travel Committee organized several activities to revitalize our Low-Carbon Travel efforts after changes in travel activities due to the COVID-19 pandemic.

During the SDG Bergen conference the travel committee organized a hybrid workshop during Day Zero entitled *What role for academia in a changing climate?*. Here we discussed the university's role in addressing emissions from aviation and food and we were joined by Julia Barrot from *Stockholm Environment Institute* and Clare Ma from *Cambridge University* with inspirational examples. We concluded with a panel discussion about how universities can be more ambitious with Kristine Skarsvåg (UiB), Marita Johansen (Sammen) and Josephine Gerde (UiB Sustainability Pilots).

During the spring of 2023, CET employees were asked to submit their travel journeys for the year of 2022 and complete a CET travel behaviour survey. The results were presented to a workshop with CET staff titled *Finding a low-carbon travel policy for CET – targets and practices*.

Committee members



Judith Reczek Dalsgård
Communications manager



Christine Rooks
Research Coordinator



Rafael Rosales
PhD Fellow



Jesse Schrage
Researcher



Shayan Shokrgozar
PhD Fellow



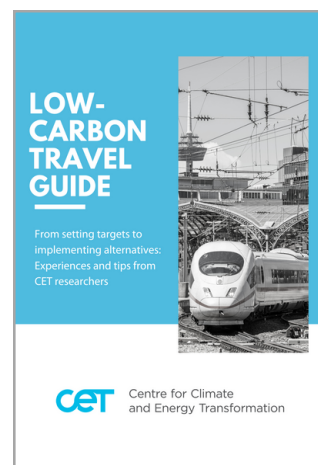
Christine van der Horst
PhD Fellow

The workshop aimed at framing a discussion among CET staff about the range of targets that should be adopted by the centre, as well as the range of practice and policies that enhance accountability.

The *Low-Carbon Travel Guide* was published in October 2023 and includes tools, tips and knowledge to inspire other researchers and institutions to minimise their climatic footprint. The guide builds on a survey carried out at CET in 2023, personal stories, data from the centre's staff, and inspiration from other institutions. We hope to challenge the ubiquity of highly mobile academic careers and provide a practical way of transforming our practices of doing research.

Committee member Jesse Schrage was also interviewed in *Nature* in a "careers feature" addressing the limits of low-carbon travel and research.

The activities and results from the travel data and survey are documented in a report from the committee. The report also includes recommendations on how this work should be continued and will inform an update to the *CET low-carbon Travel Policy* and will be presented to the steering group committee for approval in 2024.



Day Zero hybrid event on What role for academia in a changing climate?
Photo: Judith Dalsgård

STRATEGY 2023 - 2026

Since our first strategy expired in 2022, this year we had the opportunity to think through the purpose and goals of our activities. After a process involving the affiliate network, researchers 'in the hallway', and of course the Steering Committee, we created a new strategy for CET. This will guide our work until 2026.

We said repeatedly throughout the year that 'the process of making a new strategy is as important as the end result'. It is critical for an organisation like CET to ask ourselves questions about what our goals and priorities are and should be. Making a new strategy is a great opportunity to do that. We had lots of fruitful discussions about the future direction.

Overall, we found that the overarching goal that the centre was founded on still held – for the most part. In the new strategy, we have put more emphasis on justice as a part of our main goal. This is in recognition of recent research we have done that stresses the importance of social justice for climate and energy transformations.

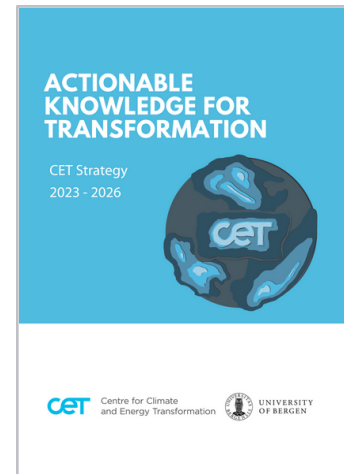
CET aims to produce actionable knowledge that can inform policy and practice about how to achieve rapid, just and deep transformation of society

The new strategy also focuses our research more on a narrow set of themes. As 1.1 states, "We focus on the ways climate change and transformation are experienced and acted upon by individuals, communities, policymakers and organisations."

This replaces a broader set of themes in the previous strategy, and gives the centre a clearer direction. We also think the new strategy better recognizes diversity. And importantly, it is shorter and hopefully therefore easier to read!



CET Affiliates at our strategy kick off seminar in 2022 Photo: Judith Dalsgård/CET



HIGH-QUALITY
RESEARCH

ADVANCE
TRANSFORMATION
IN SOCIETY

KNOWLEDGE
HUB

ORGANISATION

Secretariat

In 2023 the secretariat at CET consisted of:

- Håvard Haarstad, Director
- Nora Haukali, Research Coordinator (on leave January - October)
- Judith L. Reczek Dalsgård, Communications
- Janne Biedilæ Bjørgan, Communications (until June 2023)
- Christine Rooks, Research Coordinator (filling in for Nora)



Christine Rooks.
Photo: Eivind Senneset



From left: Janne Bjørgan, Judith Dalsgård, Nora Haukali and Håvard Haarstad

CET Steering Committee 2022 - 2025

The CET steering committee consists of representatives from the partner organizations UiB, NORCE, NHH.



Photo: Eivind Senneset

Chair: **Siri Gloppen**,
Vice-dean for research,
Faculty of Social
Sciences, UiB.



Photo: Eivind Senneset

Peter Andersen,
Head of Department
Dept. of Geography, UiB



Photo: NHH

Malin Arve,
Vice-Rector,
NHH



Photo: Ellen Viste

Kikki Kleiven,
Director, Bjerknes
Centre for Climate
Research



Photo: Eivind Senneset

Ståle Knudsen,
Professor, Dept. of
Social Anthropology,
UiB



Photo: Rune Rolvsjord/NORCE

Ingrid Helgøy,
Deputy EVP Health &
Social Sciences,
NORCE

Finances

CET receives an annual allocation through the Norwegian Ministry of Education and Research. UiB Faculty of Social Sciences provides office facilities. In addition, CET receives financial support for the CET201 course from the faculty and the Department of Geography.

CET also receives funding from external projects as listed in **annex 4** (page 33).



CET is based at the Faculty of Social Sciences at the University of Bergen and until the end of 2023, CET was located in the Faculty building in Fosswinkel's gt.

EDUCATION

Master's students at CET

The annual master's seminar was organised in March 2023. Students had the opportunity to present their work to CET researchers and receive valuable feedback from our interdisciplinary research group. A selection of the completed master's theses is shown on the right.

Several of the master's students were invited to present their completed master projects for the *City of Bergen, Climate Agency* in August 2023.

In September 2023 four new students were welcomed to the centre:

- Maria Thomassen, *Department of Sociology*
- Yas Jilardi, *System Dynamics, Department of Geography*.
- Tekla Vollen, *Department of information and media sciences*.
- Ecem Bilgin, *Department of Government*.

The 2023/2024 group of students presented the early stages of their theses at a special master's student works-in-progress seminar in autumn 2023 at CET.

The Collaboratory

CET continues to support the UiB Collaboratory, a student-driven initiative for partnership between researchers and students to mobilize innovation in research and higher education. Jakob Grandin is employed as an Associate Professor II and is a mentor for this initiative. In 2023 the CET201 course was co-ordinated by Ingeborg Rønning and Hannah Johansen.

Around 40 students joined the fourth round of the CET201 Sustainable Innovation course. The 9 interdisciplinary groups worked on real sustainability cases from companies and organisations including *Naturvernforbundet, UiB, Sparebanken Vest, Havbyen Bergen, Skyss, Sammen, Bergen Hostel Montana and Eviny*. The students came up with innovative solutions for the cases including sustainable commuting on water, an emission calculator for public transport, and a KPI toolbox to improve measurements of sustainability.

Master's theses completed in 2023

Susanne Christensen, Department of Social Anthropology
Et antropologisk studie av infrastrukturprosjektet Hordfast.

Lars Fiskaa, Department of Government
What Norwegian voters want: Opinions on energy sources and party preferences.

Juni Lund, Department of Comparative politics
Glocal politics: Local political parties and GHG emissions in Norwegian municipalities 2009 - 2021.

Thea Vestad, Faculty of Law
Konkurranserettslige grenser og muligheter for bærekraftssamarbeid etter TEUV art. 101 tredje ledd.

Emilie Flønes, Department of Health Promotion and Development
Managing stressors when working with climate change.

Ingrid Couto de Azevedo, Department of Global Public Health and Primary Care
Health sector's carbon emissions and universal health care coverage.



Master students 2023/24. From left back: Ecem Bilgin, Emilie Rosenlund (no longer a CET MA student), Yas Jilardi. In front: Maria Thomassen & Tekla Vollen Photo: Judith Dalsgård



The Collaboratory co-ordinators in 2022 & 2023 Ingeborg Rønning and Hannah Johansen. Photo: Jakob Grandin



Annexes

1. CET Publications
2. Media Outreach
3. Affiliate Publications
4. Projects overview
5. Events overview

ANNEX 1: CET PUBLICATIONS

CET publications

The following publications are authored or co-authored by CET affiliates, and CET is acknowledged since the project was partly owned or co-funded by CET.

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Yazar et al. 2023. *Comparative analysis of socio-political dynamics in carbon-intensive regions. Horizon2020 CINTRAN Project Final Report for WP2.2*.

Doctoral theses

Wilkerson, B. 2023. *Systems approaches to sustainability: Innovation and social-ecological-technological systems*. [Doctoral dissertation, University of Bergen].

ANNEX 2: MEDIA OUTREACH

CET media outreach

The following is an overview of media and public outreach by CET affiliates.

Aall, C., H. Dannevig, E.A. Brendehaug, H.M.L. Kvitsand, J.K. Rød, M. Vindegg, S. Neby, M. Pontoppidan, G.K. Hovelsrud, and L. Dahle. 2023. Er Norge forberedt på tørkesommeren? *nationen.no*, 21 June 2023.

Anderson, K. 2023. IPCC's conservative nature masks true scale of action needed to avert catastrophic climate change. *The conversation*, 24 March 2023.

Angell, E. O.A.H. Engen, C. Morsut, and S. Neby. 2023. Er beredskap og klimatilpasning to sider av samme sak? *Stavanger Aftenblad*, 29 August 2023.

Betti, M. 2023. "Liquified Natural Gas (LNG) in time of crisis. Observations from ethnographic fieldwork on board LNG carriers." *Public Anthropologist Blog Post*, 23 March 2023.

Bølstad J., S. Sareen, and A. Tjønndal. Hva er det viktigste jeg kan gjøre for klimaet? *Morgenbladet*, 20 April 2023.

Fløttum, K. 2023. Språkets rolle i klimadebatten - *Science4Impact*. Podcast, 24 March 2023.

Gregersen, T. 2023. Flyskam frem mot sommerferien – skal vi ha det? *Aftenposten*, 27 March 2023.

Gregersen, T. 2023. Oljenæringen om 10 til 15 år: Mindre, som i dag eller større? *Energi og klima*, 2 May 2023.

Gregersen, T. 2023. Psykologens guide til ekstremvarmen. *Morgenbladet*, 21 July 2023.

Gregersen, T. 2023. Nye tall: Nordmenn flest tviler på at klimaforskerne er enige. *Morgenbladet*, 6 August 2023.

Gregersen, T. 2023. Er klimaendringene en trussel? *Energi og klima*, 9 August 2023.

Gregersen, T. 2023. Bør økonomisk vekst prioriteres foran miljøinteresser? *Energi og klima*, 15 August 2023.

Gregersen, T. 2023. Anger is most powerful emotion by far for spurring climate action, study finds. *The Guardian*, 21 August 2023.

Gregersen, T. 2023. Nordmenn undervurderer forsker-enighet om klimaendringer. *Energi og klima*, 21 August 2023.

Gregersen, T. 2023. An understudied emotion packs a surprisingly large climate action punch. *Anthropocene*, 22 August 2023.

Gregersen, T. 2023. Anger towards others is a 'major driver of climate activism', study finds." *Brussels Signal*, 23 August 2023.

Gregersen, T. 2023. Gjør Norge nok for å kutte utslipp? *Energi og klima*, 4 September 2023.

Gregersen, T. 2023. Sint av klimaprat. *Klima og energi*, 7 September 2023.

Gregersen, T. 2023. En av fem i Voss herad meiner at klimaendringane ikkje er menneskeskapte. *Avisa Hordaland*, 8 September 2023.

Haarstad, H. 2023. Klimaomstillingen står i konflikt med naturen. *Aftenposten [kronikk]*, 14 March 2023.

Haarstad, H. 2023. Planeten tåler det ikke. *Dagsavisen*, 1 April 2023.

Haarstad, H. 2023. Vi kunne tatt ti riktige steg, nå tar vi ett. *TV2.no*, 9 August 2023.

Haarstad, H. Hetebølgene i Sør-Europa: Snur alt på hodet: - Katastrofalt. *Børsen Dagbladet*, 25 July 2023.

Haarstad, H. 2023. Klimaavtrykket av 'driving home for Christmas'. *NRK Vestland Radio*, 22. December, 2023.

Haarstad, H. 2023. Kan vi få til nedvekst? *NRK P2 Ekko*, 17 April 2023. 28 October 2023

Haarstad, H and Martinez-Alier, J. 2023. Holbergsamtalen NRK,

Helliesen, M.S. 2023. Ungdommenes aksjon var vellykket. *VG*, 15 March 2023.

Helliesen, M.S. 2023. Lokaldemokratiet har mista desse unge folkevalde. *NRK*, 12 April 2024.

Helliesen, M.S. 2023. Tilliten til norske politikere er i verdenstoppen. Men det er ikke sikkert den forblir høy, mener ekspert. Aftenposten, 30 July 2023.

Korsvoll N.H., N. Kucirkova, and S. Sareen. Leser vil ha siste nytt fra forskerne. Morgenbladet, 16 February 2023.

Lygre, E.T., and K. Fløttum. 2023. Skepsis til klimaskam. Framtida.no, 2 January 2023.

Lund, J. 2023. Jeg sjekket, det er vits i å stemme grønt i kommunevalget. Bergens Tidende, 4 September 2023.

Neby, S., H. Haarstad. 2023. Bergen trenger en klimaetat. Bergensavisen, 29 December 2023.

Pilskot, I. (Host). 2023. Not so green transition [Audio podcast episode] In Bjerknes Climate Podcast. The Bjerknes Centre for Climate Research, 12 May 2023.

Riegler, M.A., H. Reinertsen, and S. Sareen. Hvordan vil kunstig intelligens forme verden de neste ti årene? Morgenbladet, 26 January 2023.

Sareen, S. 2023. SV-forsker får DKNVS' pris til yngre forskere. På Høyden, 1 March 2023.

Schrage, J. 2023. Why a climate researcher pushed the limits of low-carbon travel — and his employer's patience. Nature career feature, 8 November 2023.

Shrestha, S. 2023, November. Akademisk Aften - Hvor skal lastebilen parkere? [Audio podcast episode] in Bobcast. The Public Library of Bergen.

Shrestha, S. 2023. Subina Shrestha on Nepal's Electric Mobility Transition: Challenges and Recommendations for the Future [Audio podcast episode] In PODS by PEI. Policy Entrepreneurs Inc, 24. January 2023.

Shrestha, S. 2023. The role of the EU in shaping sustainable urban logistics governance in Norwegian cities in RSA blog.

Strand, N. and H. Bratland. 2023. Økonomisk vekst eller nedvekst ? [Audio podcast episode] in Sirkuler. Avfall Norge.

Tvinnereim, E., T. Gregersen, and I.K. Faleide. 2023. Fremdeles delte meninger om landbasert vindkraft, mens flertallet for havvind minker noe. Energi og klima, 30 March 2023.

Wiig, H., and K. Fløttum. 2023. Nevn ikke Greta! Besteforeldrenes klimaaksjon, 12 January 2023.

Yazar, M. 2023. Populistiske høyrepartier bremser EUs klimapolitikk. Forsking.no, 1 December 2023.

ANNEX 3: PUBLICATIONS

Other publications

The following publications are authored or co-authored by CET affiliates and are of relevance to CET, but where CET did not directly fund or contribute to the project/publications.

Journal articles

- Aasheim, E.T., A. Bhopal, K. O'Brien, A.K. Lie, E.R. Nakstad, L.F. Andersen, D.O. Hessen, B.H. Samset and D. Banik. "Climate change and health: a 2-week course for medical students to inspire change." *The Lancet Planetary Health* 7(1): e12-14.
- Bhopal, A., S. Sharma and O.F. Norheim. 2023. "Balancing the health benefits and climate mortality costs of haemodialysis." *Future Healthc J* 10(3): 308-312.
- Bhopal A., K. Bærøe. 2023. "Dual duties to patient and planet: time to revisit the ethical foundations of healthcare?" *Journal of Medical Ethics* 49(2): 102-103.
- Bremer, S., N. Klenk, M. Bastian, and D. Kwan-Lafond. 2023. "Adaptation requires attuning to shifting temporal patterns." *Nature Climate Change* 14: 8-10.
- Bremer, S., M. Stiller-Reeve, N. Mamnun, and H. Lazrus. 2023. "Co-producing representations of summer rainfall in Bangladesh." *Regional Environmental Change* 23(2), 60.
- Bøhm, G.P., H.-R. Pfister, R. Doran, C.A. Ogunbode, W. Poortinga, E.M. Tvinnereim, K. Steentjes, C. Mays, R. Bertoldo, M. Sonnberge, and N. Pidgeon. 2023. "Emotional reactions to climate change: a comparison across France, Germany, Norway, and the United Kingdom." *Frontiers in Psychology* 14.
- Doran, R., and C.A. Ogunbode. 2023. "Effects of information exposure on risk perception and worry about ocean acidification: Evidence from Norway and the UK." *Climate Risk Management* 42, 100565.
- Eidheim, M.R., E. Tvinnereim. 2023. "Hvem stemmer på Industri- og næringspartiet?" *Norsk Statsvitenskapelig Tidsskrift* 39(4): 177-185.
- Fløttum, K. 2023. "Rôles des citoyens dans la lutte climatique : une étude linguistique des opinions des Français sur les possibilités et les obstacles concernant l'atténuation du changement climatique." *Studii de lingvistică* (13) 2: 233-252.
- Guo F., Q. Wei, M. Wang, Z. Guo, and S.W. Wallace. 2023. "Deep attention models with dimension-reduction and gate mechanisms for solving practical time-dependent vehicle routing problems." *Online in Transportation Research Part E* 173.
- Helliesen, M.S. 2023. "Unequal Representation of Women and Youth on Climate Policy Issues." *Representation* 59(4): 615-632.
- Jiglau, G., S. Bouzarovski, U. Dubois, M. Feenstra, J.P. Gouveia, K. Grossmann, R. Guyet, S.T. Herrero, M. Hesselman, S. Robic, and S. Sareen. 2023. "Looking back to look forward: Reflections from networked research on energy poverty." *iScience* 26(3), 106083.
- Liu, X., H. Lindhjem, K. Grimsrud, E. Leknes, and E.M. Tvinnereim. 2023. "Is there a generational shift in preferences for forest carbon sequestration vs. preservation of agricultural landscapes?" *Climatic Change* 176, 123.
- Lucas, M., H. Hisken, T. Skjold, B.J. Arntzen, and K. van Wingerden. 2023. "CFD modelling of hydrogen and hydrogen-methane explosions – Analysis of varying concentration and reduced oxygen atmospheres." *Journal of Loss Prevention in the Process Industries* 83: 105012.
- Moe, H., S.S. Lindtner, and B. Ytre-Arne. 2023. "Polarisation and echo chambers? Making sense of the climate issue with social media in everyday life." *Nordicom Review* 44(1): 23-43.
- Nordø, Å.D., G. Andersen, and C. Merk. 2023. "Teknologien vil redde klimaet! Annerledeslandet Norge og holdninger til norsk klimapolitikk i fire samfunnsgrupper." *Norsk Statsvitenskapelig Tidsskrift* 39(1): 4-22.
- Skuzinski, T., D. Weinreich, and C.V. Hernandez. 2023. "Exploring the link between regional transportation governance and outcomes: A novel measure of polycentricity in metropolitan public transportation systems." *Transport Policy* 133: 168-175
- Tvinnereim, E.M. 2023. "The energy efficiency gap in citizens' own words." *Nature Energy* 8: 915-916. .

Tvinnereim, E.M., G. Andersen, G. Böhm, and Å.D. Nordø. 2023. "What does the public associate with "climate change"? A study of open-ended survey questions from 2013 to 2021." *Bergen Language and Linguistics Studies (BeLLS)* 13.

van Wingerden, M., T. Skjold, D. Roosendans, A. Dutertre, and A. Pekalski. 2023. "Chemical inhibition of hydrogen-air explosions: Literature review, simulations and experiments." *Process Safety and Environmental Protection* 176: 1120-1129.

Books and Book Chapters

Bremer, S., and E. Johnson. 2023. "Careful transformation of cities' institutional cultures." Pp. 83-92 in *Haste: The slow politics of climate urgency*, eds. H. Haarstad, J. Grandin, K. Kjærås, and E. Johnson. London: UCL Press.

Bremer, S. 2023. "Recalibrating Seasonal Cultures with Communities." In *Heritage Education for Climate Action*, eds. I. Curulli and D. I. Kaya. London: ISTE-Wiley.

Bremer, S., and A. Wardekker, eds. 2023. *Changing Seasonality: How communities are revising their seasons*. Berlin: De Gruyter.

Gjerstad, Ø., and K. Fløttum. 2023. «Negation and Climate Change in French Blog Posts." Pp. 27-42 in *Negatives and Meaning: Social Setting and Pragmatic Effects*, ed. Malin Roitman. Stockholm: Stockholm University Press

Knudsen, S., ed. 2023. *Corporate social responsibility and the paradoxes of state capitalism. Ethnographies of Norwegian energy and extraction businesses abroad*. Oxford: Berghahn Books.

Knudsen, S. 2023. "Model of a Model: Norsk Hydro at Home and Abroad." Pp. 115-136 in *Corporate social responsibility and the paradoxes of state capitalism. Ethnographies of Norwegian energy and extraction businesses abroad*, ed. Ståle Knudsen. Oxford: Berghahn Books.

Knudsen, S. 2023. "Conclusion: Inactive State Ownership and the Nordic Model Recast as "Values"." Pp. 322-334 in *Corporate social responsibility and the paradoxes of state capitalism. Ethnographies of Norwegian energy and extraction businesses abroad*, ed. Ståle Knudsen. Oxford: Berghahn Books.

Knudsen S., I.B. Müftüoğlu, and I. Hugøy. 2023. "Standardizing Responsibility Through the Stakeholder Figure: Norwegian Hydropower in Turkey." Pp. 268-294 in *Corporate social responsibility and the paradoxes of state capitalism. Ethnographies of Norwegian energy and extraction businesses abroad*, ed. Ståle Knudsen. Oxford: Berghahn Books.

Knudsen S., D. Rajak, S. Lange, and I. Hugøy. 2023. "Introduction: Bringing the State Back In: Corporate Social Responsibility and the Paradoxes of Norwegian State Capitalism in the International Energy and Extraction Industries." Pp. 1-38 in *Corporate social responsibility and the paradoxes of state capitalism. Ethnographies of Norwegian energy and extraction businesses abroad*, ed. Ståle Knudsen. Oxford: Berghahn Books.

Mairare, O.E. and I. Hugøy. 2023. "Samfunnsansvar is not CSR: Mapping Expectations and Practices of (Corporate) Social Responsibility in Norway" Pp. 63-91 in *Corporate Social Responsibility and the Paradoxes of State Capitalism: Ethnographies of Norwegian Energy and Extraction Business Abroad*, ed. Ståle Knudsen. Oxford: Berghahn Books.

Müftüoğlu I.B., S. Knudsen, R.F. Dale, O.E. Maraie, D. Rajak, and S. Lange. 2023. "Rethinking Access: Key Methodological Challenges in Studying Energy Companies." Pp. 39-62 in *Corporate social responsibility and the paradoxes of state capitalism. Ethnographies of Norwegian energy and extraction businesses abroad*, ed. Ståle Knudsen. Oxford: Berghahn Books.

Policy briefs and reports

Andersen, G., and E.M. Tvinnereim. 2023. "Fleksibilitet når vi vil: Maktforhold i klimapolitikken." *Hvem har makt i norsk klimapolitikk? 15 bidrag og en analyse på tvers*, eds. L.H. Gulbrandsen, and Ø.N. Handberg. Oppdrag for Klimautvalget 2050.

Fløttum, K., I.V. Andersen, T. Dahl, H. Drange, D. Elgesem, Ø. Gjerstad, and E.J.S Perron. 2023. *Living with climate change. Report from the CLIMLIFE project 2023*. Bergen: Institutt for fremmedspråk, Universitetet i Bergen.

Gregersen, T. 2023. *Climate emotions – and how they can motivate or hinder action*

Helliesen, M.S. 2023. *Dealing with climate change in representative democracies, New Challenges to Democracy, Policy Brief*.

Merk, C., G. Andersen, Å.D. Nordø, and T. Helfrich. 2023. "Carbon Capture and Storage - Publics in five countries around the North Sea prefer to do it on their own territory." *Kiel Working Paper*, 2252.

Nordø Å.D., G. Andersen, and C. Merk. 2023. Technology will save the climate! Attitudes towards Norway's climate policy in four social groups. Kiel Institute for the World Economy ISSN 1862-1155. *Kiel Working Papers*, 2239.

Tvinnereim, E.M. 2023. *Trender i politiske hjertesaker i Norge*.

ANNEX 4: PROJECTS

CET Projects

The following projects are fully or partly owned by CET.

Funder /Project title	Project owner	CET partner(s)	Project period	Total budget (NOK)	Portion of budget allocated to CET
Global Societal Challenges, UiB				2 680 000	2 680 000
PhD Position: The global implications of Norway's electric car revolution	UiB - CET	Håvard Haarstad	2021-2025	2 680 000	2 680 000
		Kjetil Rommetveit			
		Siddharth Sareen			3 758 500
EU - H2020				131 148 740	
CINTRAN - Carbon Intensive Regions in Transitions - Unravelling the Challenges of Structural Change	Wuppertal Institut für Klima, Umwelt, Energie gGmbH	Mahir Yazar, Håvard Haarstad, Jessica Jewell, Endre Tvinnereim	2020-2024	29 994 050	1 477 900
VARCITIES - Visionary nature-based actions for health, wellbeing & resilience in cities	Telecommunication System Institute	Håvard Haarstad	2020-2025	101 154 690	2 280 600
EU - ERC				15 000 000	712 500
MANIFEST - Mechanisms and actors of Feasible Energy Transformation	Chalmers University of Technology	Jessica Jewell	2021-2026	15 000 000	712 500
EU - JPI Climate				10 000 000	1 814 000
ROLES - Responsive Organising for Low Emission Societies	UiS, UiB - CET	Siddharth Sareen	2020-2023	10 000 000	181 400
RCN - Research Council of Norway				72 228 000	16 534 768
CITYFREIGHT - Freight Logistics in Smart Cities	NHH	Stein Wallace, Håvard Haarstad, Endre Tvinnereim, Sigrid Eskeland Schütz, Rafael Rosales, Subina Shrestha	2020-2024	18 558 000	6 329 818
DEMOCLIM - Cities confronted by protests: Democratic governance for efficient and socially just climate transformation	OSLOMET - NIBR	Håvard Haarstad	2020 - 2023	13 219 000	1 635 950
MUCS - Media use in crisis situations: Resolving information Paradoxes, Comparing Climate Change and the COVID-19 Pandemic	UiB - Department of InfoMedia	Håvard Haarstad, Ida Sekanina	2021 - 2025	12 420 000	3 892 000
ASSET - Accountable Solar Energy TransitionS	UiS	Siddharth Sareen, Shayan Shokrgozar	2021 - 2024	11 343 000	3 235 000
EMPOWERED FUTURES - A global research school	NMBU	Håvard Haarstad	2022-2030	16 688 000	1 442 000
UiB - Climate and Energy				3 000 000	300 000
HySociety - Hydrogen som energibærer i samfunnet: risikobilde, risikoforståelse og offentlig aksept	UiB	Håvard Haarstad	2021 - 2024	3 000 000	300 000
Regionalt forskningsfond				3 000 000	900 000
Klimabudsjett 2.0	Vestlandsforskning	Jesse Schrage	2021 - 2024	3 000 000	900 000
Klima- und Energifonds				2 958 976	482 059
TRANSFLIGHT - Shaping the future of air travel	University of Graz	Jakob Grandin, Jesse Schrage	2022-2024	2 958 976	482 059
The British Academy					300 000
	University of Bristol	Håvard Haarstad	2023-2026		300 000
Grand total				240 015 716	27 481 827
Funder /Project title	Project owner	CET partner(s)	Project period	Total budget (NOK)	
CET Accelerator, UiB				500 477	
Adaptation: between institutional (in)effectiveness and intangible loss	UiB Department of Geography	Daniel Puig	2023-2025	98 277	
RAIN: the Bergen adaptation conference	UiB Department of Geography	Daniel Puig	2023-2024	100 000	
Folk Mener	NORCE	Thea Gregersen	2023	22 200	
BACKLASH - Populist backlash episodes to climate policy and actions	UiB Department of Geography	Mahir Yazar	2023-2024	200 000	
Accountable Solar Energy Transitions - communication for impact workshop	UiB Department of Geography	Siddharth Sareen	2023-2024	80 000	
Total				500 477	

ANNEX 5: EVENTS

CET events

Date	Type	Title	Name	Organizer
11.01.23	CET Lunch	Limits to Climate Change Adaptation	Daniel Puig (CET/UiB)	CET
25.01.23	CET Lunch	Researching processes that make 'nature' governable	Gisle Andersen (NORCE)	CET
08.02.23	CET Lunch	Day Zero: <ul style="list-style-type: none"> What role for academia in a changing climate Cognate aspects for accountable solar transitions 	Julia Barrot, Clara Ma, Kristine Skarsvåg, Marita Johansen, Josefine Gerde, Jesse Schrage, Siddharth Sareen and Shayan Shokrgozar	CET
10.02.23	Seminar	SDG Internal Seminar with Dan Kammen	Dan Kammen, Siddharth Sareen	CET
22.02.23	Bærekraftig frokost	Hvordan får vi naturen i byen?	Knut Hellås, Anders Blindheim Nottveit og Synnøve Ringstad	CET , County Governer of Vestland & The Bærekraftig Frokost i Bergen network.
22.02.23	CET Lunch	Stories from the field: What Solar India tells us about our model of social life	Shayan Shokrgozar	CET
07.03.23	Workshop	Transflight: Future of aviation and travel	Jesse Schrage and Jakob Grandin	CET & University of Graz
08.03.23	CET Lunch	Energy Democracy: Social Movement to Scholarship and Back Again	Andrea Feldpausch-Parker (SUNY)	CET
10.03.23	Open lecture	A velvet or Violent Climate Revolution: which will Norway choose?	Kevin Anderson	CET
14.03.23	Holberg Prize	Winner announcement	From CET: Håvard Haarstad	CET
15. - 17.03.22	Conference	Varmere, våtere, villere	From CET: Silje Kristiansen, Devyn Remme	CET
15.03.23	VVV CET Lunch	What are we really discussing when we talk about climate change?	Marthe Elden Wilhelmsen (UiA)	CET
15.03.23	Akademisk aften	Hvor skal lastebilen parkere? Å organisere varetransport er vanskeligere enn du tror.	Subina Shrestha	Bergen Offentlig Bibliotek
16.03.23	Conference	Fornybarkonferansen	From CET: Jessica Jewell	Bergen chamber of commerce
17.03.23	Book launch	Effektiv eller rettferdig klimapolitikk? Haste: The slow politics of climate urgency.	Håvard Haarstad, Jakob Grandin, Åshild Aarø, Thor Haakon Bakke (MDG)	CET
21.03.23	Workshop	Transflight: Future of aviation and travel	Jesse Schrage & Jakob Grandin	CET & University of Graz
22.03.23	CET Lunch	Explaining opposition against climate policies	Runa Falck (UiB)	CET
27.03.23	Seminar	CET201 presentation	The Collaboratory	CET, The Collaboratory and Sparebanken Vest
28.03.23	Workshop	Transflight: Future of aviation and travel	Jesse Schrage & Jakob Grandin	CET
12.04.23	CET Lunch	The Future of Northwest US Hydropower in the Era of Climate Change	Nik Janos, California State University Chico	CET
24.04.23	Conference	Meeting grand challenges together: actionable knowledge through collaboration in research and innovation	From CET: Brooke Wilkerson, Håvard Haarstad, Simon Neby	UiB Innovation

Date	Type	Title	Name	Organizer
27.-28.04.23	Conference	ITS21 conference 2023	From CET: Håvard Haarstad, Jakob Grandin	Centre for Interprofessional Workplace Learning (TVEPS)
03.05.23	CET Lunch	Pleistocene actors in the Anthropocene. Muskox, rewilding and social construction of nature in Dovrefjell	Karin Lillevold	CET
03. - 05.05.23	Conference	Klimaomstilling 2023	From CET: Rafael Rosales, Simon Neby,	Vestlandsforskning
08. - 09.05.23	Conference	Living with climate change	From CET: Håvard Haarstad	Lingclim group, UiB
10.05.23	Symposium	A critical introduction to Joan Martinez-Alier: political ecology, justice and degrowth	Håvard Haarstad, Tor Arve Benjaminsen, Anwasha Dutta	CET, The Holberg Prize
15.05.23	Book launch	Marketization: How Capitalist Exchange Disciplines Workers and Subverts Democracy: Autonomy and Automation	Ian Greer (Cornell University), Charles Umney (University of Leeds).	CET
24.05.23	CET Lunch	Norwegians underestimate the support for meat reduction for environmental concerns	Ingrid Kvåle Faleide	CET
07.06.23	CET Lunch	Climate mitigation caught between a rock and hard place: developing Paris-compliant climate pathways considering fairness and feasibility.	Jesse Schrage	CET
07. - 08.08.23	Conference	Rosendalsveko: Småbruket: Ei økonomisk, sosial og miljømessig berekraftig løsning?	Silje Kristiansen, Anna Milford, Katinka Kilian, Grzegorz Kramar, Anton Langeland, Natalia Golis	Følgefonnsenteret, Havforskningsinstituttet og CET.
14. - 15.08.23	Conference	Arendalsuka: -Sosialt rettferdig og effektiv klimostilling -hva må til? -Kampen om arealene mellom energi og natur: hvilken kunnskap teller?	From CET: Håvard Haarstad	Empowered Future, NMBU. NiBR OsloMet
23.08.23	CET Lunch	City as a lab - experimenting our way to sustainability?	Subina Shrestha	CET
24.08.23	Event	Bærekraftssamtalen	From CET: Håvard Haarstad	Bærekraftig Liv, Landås
30.08.23	Workshop	MUCS project workshop	Solveig Botne Høegh-Krohn , Håvard Haarstad, Lars Ursin, Astrid Rommetveit, Kristine Holmelid	CET & MUCS project
06.09.23	CET Lunch	"This is coming" Technology, regulations and the co-creation of new maritime vessels in Haugesund, Norway	Ståle Knudsen	CET
20.09.23	CET Lunch	Maybe climate is not the issue?	Solveig Botne Høegh-Krohn	CET
22. - 23.09.23	Stand	Forskningstorget: Bli en klimamyleknuser	Rafael Rosales, Shayan Shokrgozar, Subina Shrestha, Håvard Haarstad, Janne Bjørgan, Silje Kristiansen	Forskningsdagene i Bergen
29.09.23	Event	Researchers night: Fremtidens energimix	From CET: Silje Kristiansen (organising committee)	Forskningsdagene i Bergen
04.10.23	CET Lunch	Climate anger and climate engagement	Thea Gregersen (NORCE)	CET
16.10.23	Event	Roundtable on Roles Academics Play in Sustainability Transformation	John McNeish, Mikaela Vasstrøm, Marie Claire Brisbois, Saurabh Biswas, Joran Buwalda, Subina Shrestha and Siddharth Sareen.	Empowered Futures and CET
17. - 18.10.23	Conference	Beyond Oil: Refuelling Transformation	Zarina Patel, Helen Ahlborg, Derk Loorbach, Jessica Jewell, Ketan Joshi, Alexander Dodge, Marie Claire Brisbois, Eva Maria Fjellheim.	CET

Date	Type	Title	Name	Organizer
23.10.23	Event	BIFF: Den grønne byen - panelsamtale	Stina Oseland, Tarje Wanvik, Ane Johannesen, Agnes Tvinnereim	Climate Agency, City of Bergen, Bergen Film Festival and CET
25.10.23	CET Lunch	Climate misinformation on YouTube - The digital frontline of the denial machine	Lluís de Nadal Alsina (University of Glasgow)	CET
08.11.23	CET Lunch	Implementing an ambitious climate strategy	Stina Oseland (City of Bergen)	CET
22.11.23	CET Lunch	Understanding Deep Sea Mining Through Journalism	Elyse Hauser (SUJO)	CET
19.12.23	PhD Defence Watch party	Systems approaches to sustainability	Brooke Wilkerson	UiB & CET

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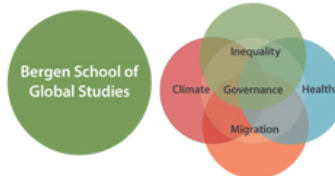


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