



Beyond oil:
Refuelling transformation
Bergen, October 17 & 18

Programme

Bergen, 17-18 October, 2023



Centre for Climate
and Energy Transformation



UNIVERSITY OF BERGEN

Refuelling transformation

Society is inevitably moving beyond oil.

And yet, the ongoing energy crisis demonstrates that transforming to low-carbon societies is bound up in multiple crises, backlashes and setbacks. Fossil fuel displacement remains both urgent and challenging. We have the knowledge and technology needed, and with political and individual will, we can refuel transformation in a just and inclusive manner. The historical moment also asks us to rethink, re-evaluate and reflect on existing transformative efforts.

Join us in a collective reckoning of the present, informed by the past, facing the future.

@uibcet
#beyondoil23

Contents

- 04** Welcome to Beyond Oil
- 05** Programme overview
- 06** Conference locations
Opening of Beyond Oil
- 07** Plenary session 1
Paradoxes of Just Transitions
- 08** Plenary session 2
A global view of refuelling transformation
- 09** Plenary session 3
Radical transitions
- 10** Plenary session 4
Closing panel
- 11** Parallel sessions overview
- 15** Link to book of abstracts
- 16** Programme committee
special thank you to

Welcome to the fifth Beyond Oil conference

Beyond Oil is an interdisciplinary and international conference organised biennially by the Centre for Climate and Energy Transformation (CET) at the University of Bergen. We provide an arena to discuss how to move society beyond oil, in its broadest sense. This conference edition dives deeper into questions and answers to how we can rethink and critically reflect on what transformation includes (and excludes). We invite scholars from a range of disciplines to unpack and jointly explore how we can revive and refuel transformation to mitigate climate change.

Refuelling Transformation is the fifth installment of the Beyond Oil conference. Previous conferences have been: *Geographies of climate and energy transformation* in 2015; *Mobilising alternative futures* in 2017; *Deep and Rapid Transformations* in 2019, and *Prioritising Climate Action* in 2021.

Thank you for joining us in Bergen, we hope you enjoy the conference.

The Beyond Oil 2023 committee

Tuesday 17th

09.00	Opening of Beyond Oil 2023	Auditoriet
09.15-10.15	Plenary 1: Paradoxes of just transitions	Auditoriet
10.30- 12.00	Parallel session 1: <ul style="list-style-type: none">- Networks of energy- Between policy and practice- Local transformations- Media and imaginaries: Technological solutions	Olav H. Hauge Alver Zinken Hopp Auditoriet
12.00	Lunch	Brasseriet
13.00-14.30	Parallel session 2: <ul style="list-style-type: none">- The voiceless: Public voices and vulnerable groups- The mineral flow (of transformation)- Refuelling public discourse- Digital presentation: Refuelling policies for fuel and transportation	Olav H. Hauge Alver Zinken Hopp Auditoriet
14.30	Coffee break	Hallway
15.00-16.30	Plenary 2: The global view of refuelling transformation	Auditoriet
19.00	Conference dinner	Bod24

Wednesday 18th

09.30	Coffee and mingling	Olav H. Hauge
10.00-11.20	Parallel session 3: <ul style="list-style-type: none">- Spatial tension- Traveling through the transformation- Perspectives on a just transition- Reflections on a just transition	Olav H. Hauge Alver Zinken Hopp Auditoriet
11.30	Lunch	Brasseriet
12.30-14.00	Plenary 3: Radical transitions	Auditoriet
14.00	Coffee break	Hallway
14.30-15.45	Parallel session 4: <ul style="list-style-type: none">- Measuring transformation- Transforming freight logistics- Digital presentation: Justice and policies in transformation	Olav H. Hauge Alver Auditoriet
16.00-16.45	Closing panel	Auditoriet

Conference locations



The conference is held at The [House of Literature in Bergen](#) – western Norway’s literary centre. An arena for literature, debate and cultural experiences. As a non-profit foundation, their purpose is to communicate and awaken interest in literature and reading as well as to encourage debate on current social issues.

Located in the centre of Bergen, the main entrance is at [Østre Skostredet 5](#). The entrance in [Vestre Skostredet](#) provides access to prams and wheelchairs.



The conference dinner is at [BOD24 Sandviken, Sjøgaten 24](#). Located in preserved stockfish warehouses around a 25-minute walk from the city centre. There are many buses from Festplassen and the fish market that pass the location.

Come early and enjoy a refreshing dip in the fjord and sauna. Please note that there are no freshwater showers at the restaurant.

Plenary sessions

Tuesday 17th of October, 09.00

Opening of Beyond Oil



Music by [Stephan Meidell](#), PhD Fellow at The Grieg Academy, University of Bergen. In his Artistic Research project «Sound~Currents» (2020-) he employs improvisation in electro-acoustic music-making – musicking – through a methodology of resonance, vibration, and transduction. He explores how resonance, technologically engendered through vibrational transduction, unveils other pathways to co-creation and alternative modes of listening – providing an expansion and diversification of current improvisational music practice.



Opening address by Professor [Håvard Haarstad](#), Director at the Centre for Climate and Energy Transformation, University of Bergen.

Tuesday 17th of October, 09.15 - 10.15

The paradoxes of Just Transitions

The idea of 'just transition' proposes that climate mitigation can be achieved alongside policies that advance social, economic and political justice. But what do we do when these objectives clash? The shift to a society beyond oil seems to be increasingly contested by actors that seek to protect nature, indigenous rights and the interests of marginalized groups. This creates new challenges for engaged researchers of justice and transition – how do we maneuver the paradoxes and contradictions at the intersection of climate mitigation and justice?

In this opening session we will hear from and discuss with keynote speakers that share experiences with these paradoxes in widely different geographical contexts.

Keynote: (Re)Fueling Transformation: From Pathways to Desire Lines



Zarina Patel is an Associate Professor of Human Geography at the University of Cape Town. Her research addresses the politics and practices of achieving just and sustainable urban transitions. The distinctive focus of her scholarship is the focus on transdisciplinary approaches to navigate alternate insights and responses to complex urban issues in southern contexts. Zarina is an editor of Environmental Planning F and former Editor in Chief of Urban Forum, she serves on the editorial boards of Local Environment, and npj Urban Sustainability. She is a Trustee of the Urban Studies Foundation, and President Elect of the Society of South African Geographers.

Keynote: Wind energy as green colonialism in Saepmie.



Eva Maria Fjellheim is a Southern Saami researcher committed to support Indigenous peoples' rights and decolonial struggles. She has a broad experience from working with Indigenous peoples' issues, movements, and human rights defenders in Saepmie (the Saami homelands) and Latin-America, mainly focusing on struggles against dispossession of Indigenous landscapes, epistemes, and practices by extractive- and energy industries. She is currently a PhD fellow at the Centre for Saami Studies at UiT – the Arctic University of Norway. Her doctoral project concerns resistance to "green colonialism" expressed through hegemonic climate change policies, discourses, and non-consensual wind energy development on Saami reindeer herding lands.



Moderator: **Shayan Shokrgozar** is a PhD fellow at the Centre for Climate and Energy Transformation at UiB.

Tuesday 17th of October, 15.00 - 16.30

A global view of refuelling transformation

Beyond Oil conference continues its mission to examine the evolving landscape of transformation beyond oil, an endeavor as urgent as it is formidable. As we are approaching the midpoint of the decade, we must reflect on how the past ten years have shaped our understanding of transformation and contemplate the strategies to refuel this critical paradigm shift. To address these pivotal questions, we invite you to join our 'Global View of Refuelling Transformation' panel. This session offers a comprehensive, global perspective on the momentum of climate change mitigation, fostering a collective reevaluation and reimagining of past and current transformative endeavors.

Panel discussants:



Jessica Jewell is an Associate Professor in Energy Transitions at Chalmers University and a professor II at CET, UiB. Her research focuses on the feasibility of climate action and quantifying the dynamics and mechanisms of energy transitions using a variety of disciplinary approaches and methods. She is a recipient of a European Research Council's Starting Grant as well as the Principal Investigator of a project funded by the Norwegian Research Council and a leader of work packages in collaborative research projects supported by European and Swedish funding bodies. Jessica will be joining us digitally from Gothenburg, Sweden.



Ketan Joshi is a researcher and communications consultant at the Global Strategic Communications Council (GSCC) in Oslo, Norway, as part of a not-for-profit network of climate-focused communications professionals. Ketan works with NGOs, climate groups, researchers and activists on key issues, with a particular focus on corporate climate commitments, greenwashing and carbon markets. Ketan's book – 'Windfall: Unlocking a Fossil Free Future' – examines a lost decade of Australia's attempts to mitigate climate change.



Alexander Dodge is an Associate Professor in economic geography at the Norwegian University of Science and Technology. He specializes in research on energy transitions with a particular focus on the shifting geographies of extraction and the implications for regions and nation-states where such extraction occurs. He currently works on several research projects that aim to conceptualize and explain the instability and transformation of oil production networks and how states work to create conditions of stability and/or change for the sector.



Moderator: **Tsimafei Kazlou**, PhD Fellow at Centre for Climate and Energy Transformation, UiB

Radical transitions

Keynote: A chimeric approach to transformation: Knowledge politics, the privileging of places, and ways to destabilise dominant understandings

Many universities embody the tension between stability and change, a paradox felt also by scholars caught between career pressures and the sense that what matters more profoundly is not valued in academia. The emotional dissonance can be quite strong and scholars who attempt to enact rather than document transformation meet with resistance from peers. In this talk, Helene Ahlberg takes transformative learning as the starting point for academic practice, and shares experiences of deeper shifts in her work that influence how she engages with knowledge politics, power relations and de/stabilisation within the Swedish and Rwandan academic setting, as well as in studies of energy sector change in the East African region. The examples challenge some favourite concepts as well as the Eurocentric bias in the field of innovation and sustainability transitions. She proposes a chimeric approach to scholarship, which is interested in plural meanings, divergence, and inconsistencies as sources for learning and creative action.



Helene Ahlberg is an assistant professor at Chalmers University of Technology. Her research is about rural electrification in East Africa and societal transformation. She studies the co-development of technology and society and how provision of electricity services, based on small-scale renewable energy resources, impacts people's lives and transforms rural communities. Two themes are at the core of this work: power, politics and governance, and the energy system's embedding in rural societies.

Discussants:



Derk Loorbach is director of DRIFT and professor of socio-economic transitions at the Faculty of Social Science, both at Erasmus University Rotterdam. He is one of the founders of the transition management approach as a new form of governance for sustainable development. He has over one hundred publications in this area and has been involved as an action researcher in numerous transition processes with government, business, civil society and science. Derk will be joining us digitally from Rotterdam, The Netherlands.



Marie Claire Brisbois is a senior lecturer in Energy Policy at the Science Policy Research Unit, and co-director of the Sussex Energy Group, both at the University of Sussex. Her work examines questions of power, politics and influence in energy, water and climate governance contexts. She also works on broader issues of social change and public participation in low carbon transitions.



Moderator: **Siddharth Sreen**, Professor in Energy and Environment, University of Stavanger and Professor II, Centre for Climate and Energy Transformation, UiB.

Wednesday 18th of October, 16.00 - 16.45

Closing panel - Reflections on refuelling transformation



Spoken word
by **Aaron Tuckey**



Moderator: **Silje Kristiansen**,
Associate Professor at the Centre for
Climate and Energy Transformation,
University of Bergen.



Stina E. Oseland is the
director of the Climate
Agency in the City of Bergen.
She is a former phd fellow at
CET, and holds a phd from
UiB.



The tradition at Beyond Oil is to leave
spaces open for the closing panel.
During the course of the conference,
the programme committee will find
engaged conference participants and
invite them to join the closing panel.



This year Beyond Oil will be joined by conference artist **Håvard Legreid**.
His sketches from the conference will be shown during the closing panel.

Parallel sessions overview

Tuesday 17th of October

10.30 Parallel session 1

1a Networks of energy (Olav H. Hauge) *Chair: Siddarth Sareen*

Unravelling the UK Oil Complex: Evolution and durability of territory-network relations over time.

Gavin Bridge, University of Durham

Mapping the oil elite complex: Unpacking the embeddedness of institutional and elite social networks of lead oil and gas firms in the UK.

Alexander Dodge, Norwegian University of Science and Technology

Critical raw materials in the 'age of decarbonisation': How local dynamics affect the trajectories of oil, natural gas and mining sectors in select African countries.

Mohammed Adil Sait, London School of Economics and Political Science

1b Between policy and practice (Alver) *Chair: Janne Bjørgan*

Perceptions of decision criteria in climate policy: What is important to whom?

Mari Helliesen; Gisle Andersen, NORCE

Beyond sprawl? A critical interrogation of current suburban sustainability strategies

Per Gunnar Røe, University of Oslo

Composite leanings. A critical reflection on the policy implementation for the decarbonisation of the UK's industrial clusters

Guy Finkill, University of Manchester

Make a u-turn if possible: The GPS and its three advisory comrades in climate policymaking

Bror Kristian Raanaas Tandberg, Norwegian University of Life Sciences

1c Local transformations (Zinken Hopp) *Chair: Rafael Rosales*

Place-making, geopolitics and a local energy transition: a qualitative case study of the energy transition process in Longyearbyen, Svalbard

Birgitte Nygaard, Norwegian University of Science and Technology

The role(s) of universities in sustainable smart specialisation: The case of Grøn Region Vestland, Norway

Lars Coenen, Western Norway University of Applied Sciences

Reframing the sustainability of urban logistics: Beyond zero-emissions

Subina Shreshta, University of Bergen

Beyond Harmony: Unravelling the role of conflict and competition in the path to electrification

Sophie-Marie Ertelt, Johan Kask, University of Örebro, Inland Norway University of Applied Sciences

1d Media and imaginaries (Auditoriet) *Chair: Håvard Haarstad*

Harmful excitement? Technology as rhetorical resource

Bård Torvetjønn Haugland, Norwegian University of Science and Technology

Good bye oil, hello nuclear! It is so good to see you again. A qualitative media content analysis of Norwegian media coverage of nuclear energy and climate

Silje Kristiansen, University of Bergen

Capturing visions from diverse actors: A study on vision-making in the construction of a CCS market

Amber Nordholm, Norwegian University of Science and Technology

Assessing the sustainability of the digital transition: A novel investigation

Joseph Doolen, University of Stavanger

13.00 Parallel session 2

2a The voiceless: Public voices and vulnerable groups

(Olav H. Hauge) *Chair: Subina Shrestha*

The paradoxes of participating in a Just Transition

Robert Edward Gilmore, University of Durham

Limits to urban climate governance: Institutional responses to climate protests in four Scandinavian cities

Håvard Haarstad, University of Bergen

Confronting fossil fuel governance cultures with 'sociotechnical resisting'

Saurabh Biswas; Faheem Hussain; Greg Poelzer & Bram Noble, University of Saskatchewan

2b The mineral flow (of transformation) (Alver)

Chair: Daniel Puig

The deep-sea mining policy process in Norway: Mitigation and losing opportunities for innovation?

Aiste Klimasauskaite, University of Bergen

Socio-ecologically responsible seabed governance through systems thinking, degrowth and environmental justice

Claudiu Eduard Nedelciu, University of Bergen

Material limits to the energy transition

Simon Davidsson Kurland, Uppsala University

2c Refuelling public discourses (Zinken Hopp)

Chair: Silje Kristiansen

Added value! The normative institutional component for transformational decision-making

Simon Neby, University of Bergen

The impact of ethnocentrism on dietary carbon footprint

Anna Birgitte Milford, NIBIO

Populist far right discursive tactics in European regional decarbonization

Mahir Yazar, University of Bergen

Should we talk about 'climate anxiety'?

Thea Gregersen, NORCE

2d Refuelling policies for fuel and transport

(Digital - Auditoriet) *Chair: Shayan Shokrgozar*

Farewell to fossil-based aviation: Exploring policy and techno-economic conditions to substitute fossil jet fuels

Nicoletta Brazzola, ETH Zürich

Green technocrats and global libertarians: The transnational power struggle over the making of net zero policies

Cristina Parau, NTNU, Oxford University

Refuelling old gas debates? The politics of assembling blue hydrogen on the UK Continental Shelf

Naima Kraushaar-Friesen, Uppsala University

Mining the Amazon in the name of the planet? On the politics surrounding a copper mine project in the Colombian Andean-Amazon

Juan Antonio Samper, Lund University

Wednesday 18th of October

10.00 Parallel session 3

3a Spatial tension (Olav H. Hauge)

Chair: Mahir Yazar

For the love of land: Energy infrastructure, wind power and justice in Finnmark
Ranghild Freng Dale, Vestlandsforskning

How to meet Norway's growing electricity demand in 2030? A methodology for integrating social and environmental factors into energy system modelling

Paola Velasco Herrejón, University of Oslo

Just Transitions to green industries? Tensions and imaginaries of the Tesla gigafactory Berlin-Brandenburg

Lea Marie Sasse, University of Stavanger

Solar transitions seen through anti-colonialism: What solar India's developmentalist material discursive practices say about the contemporary model of social life

Shayan Shokrgozar, University of Bergen

3b Traveling through the transformation (Alver)

Chair: Agnete Hessevik

Responsive organising for low emission societies

Siddharth Sareen, University of Stavanger, University of Bergen

Mapping public opinion on negative emissions using online deliberative polling

Gisle Andersen, University of Bergen

Does the UK public feel ashamed or embarrassed about flying?

Rouven Doran, University of Bergen

Green washing: The paradoxes of automation and technological innovation in the maritime sector

Marianna Betti, University of Bergen

3c Perspectives on a Just Transition (Zinken Hopp)

Chair: Simon Neby

A critical review of emergent research on community-based energy initiatives

Mathias Lindkvist, University of Stavanger

Just Transition in an oil city: Place-based approach to decarbonisation governance

Daria Shapovalova, University of Aberdeen

Who gets to imagine a just transformation towards a fossil-free future? Co-production of power, knowledge and governance in policy-relevant research

Tatiana Sokolova, Södertörn University

Ambition and tension on the pathway to Just Transition in the Pacific

Miriam Ladstein, University of Bergen

3d Reflections on a Just Transition (Auditoriet)

Chair: Camilla Houeland and David Jordhus-Lier

Reflections on a just transition (two short films and a conversation)

David Jordhus-Lier, Camilla Houeland in conversation with Jorunn Birkeland and Mari Skåra

Helliesen, , University of Oslo

14.30 Parallel session 4

4a Measuring transformation (Olav H. Hauge)

Chair: Jesse Schrage

Emissions targets are not what we need from fossil fuel companies

Yann Robiou du Pont, Utrecht University

Scotland's net zero by 2045: Modeling societal metabolic potentials and scenarios toward emissions reductions

Jean Boucher, The James Hutton Institute

Setting local Paris-aligned climate goals: Moving away from CO2 emission goals to energy system indicator goals

Mikael Kilter, Martin Wetterstedt, Uppsala University

4b Transforming freight logistics

Chair: Shayan Shokrgozar

Meta-governance of green shipping networks

Agnete Hessevik, University of Bergen

Battles for space: Transforming urban freight transport in Norway

Rafael Rosales, University of Bergen

Circular charging systems: Harnessing multi-system interface solutions for freight transport electrification

Vojtech Klezl, Zeinab Rezvani; Sophie-Marie Ertelt, Johan Kask, Örebro University, Inland Norway University of Applied Sciences

4c Justice and policies in transformation

(Digital - Auditoriet) *Chair: Simon Neby*

Chains of leverage as way to identify and foster transformative potential: The example of the EU energy transition

Tamara Schaal-Lagodzinski, Federal Institute for Research on Building, Urban Affairs and Spatial Development

Climate justice considerations on the role of CCS in IPCC mitigation scenarios: A comparative analysis of Brazil and Norway

Lina Lefstad, Lund University

Integration of carbon budgets into regional climate policy: Finding agency to accelerate mitigation

Paula Lenninger, Uppsala University

Navigating the razor's edge: Public acceptance of climate policies and the case of transport pricing

Gail Hochachka, University of British Columbia Canada

Who is vulnerable to energy poverty in China?

Lin Zhang, University of Leeds

[Read the book of abstracts here](#)

Programme committee



Håvard Haarstad
Director, CET



Janne Bjørgan
PhD Fellow, CET



Judith Reczek Dalsgård
Comms. manager, CET



Siddharth Sareen
Professor, UiS/CET



Silje Kristiansen
Associate Professor, CET



Subina Shrestha
PhD Fellow, CET



Tsimafei Kazlou
PhD Fellow, CET

Special thanks to



Thea Kopperud
Research Assistant, CET



Tekla Vollen
Research Assistant, CET



Tanya Bykova
Intern, CET

**Thank you for participating in
Beyond Oil 2023.**

See you again in 2025?

