# Annual Report 2022







### Include Annual Report 2022

### Vision

Society urgently needs solutions that will protect the environment and prevent further climate change. Include's vision is to contribute to making this transformation socially inclusive and just. Co-creation of knowledge and learning through experimentation form the cornerstones of our methodology.

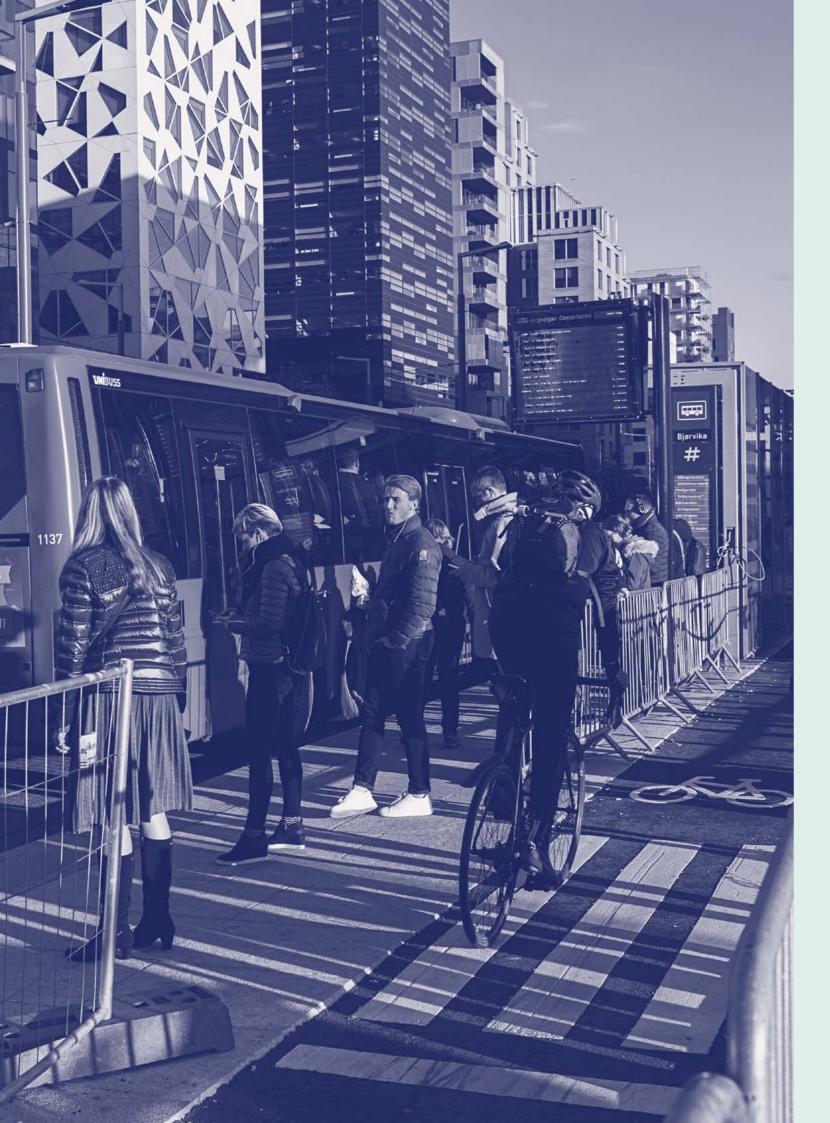


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### Abbreviations

CICERO	CICERO Center for International Climate Research
DCC	Durham City Council
FIVH	Framtiden i våre hender (The future in our hands)
FME	Centres for Environment-friendly Energy Research
FNI	Fridtjof Nansen Institute
IOR	Department of Public and International Law (at UiO)
IPED	Department of Education (at UiO)
ISS	Department of Sociology and Human Geography (at UiO)
ISV	Department of Political Science (at UiO)
ITS	Department of Technology Systems (at UiO)
KS	Norwegian Association of Local and Regional Authorities
NITO	Norwegian Society of Engineers and Technologists
NFR	Research Council of Norway
NMBU	Norwegian University of Life Sciences
RCN	Research Council of Norway
SUM	Centre for Development and the Environment (at UiO)
TØI	The Institute of Transport Economics
UiA	University of Agder
UiO	University of Oslo
UiS	University of Stavanger
UiT	UiT The Arctic University of Norway
WP	Work package (thematic compilation of projects)







Introduction

A just transformation, not just a transformation. We need the information So listen here. So listen here.

What is an emergency?

Is it crisis?

Is it disruption?

What does emergency do?

What is an emergency?

Is it overwhelming?

Is it overpowering?

What does it do to you?

I walked through emergency this morning I felt it in the air.

I was disturbed.

I felt it in a stranger's stare.

What is an event?

event ruptures something.

An emergency gives us hope.

The emerging urgency of emergency emerged not fully formed,

the burgeoning, emerging urgency of emergency

A just transformation.

not just a transformation.

We need the information.

So listen here.

A claim of emergency

is a moment of fragility.

A claim of crisis is a moment of ambivalence.

A claim of emergency is a promise for the future.

A claim of hope is a minimal thing,

a claim of emergency is the receding horizon of an end.

A claim of a new normal is not an easy answer,

because the catering is stuck in traffic.

What emergency does is organize urgency.

The catering arrived with the urgent coffee,

the catering arrived with the urgent tea.

I'll just inhabit the interval, while the urgency of the catering gets here.

In the end, we're all the man on the fire exit side who thinks he

may as well run, although he also thinks everything will be fine,

and the catering was stuck in traffic.

And most importantly,

where did you get that sweater from?

A just transformation

Not just a transformation.

We need the information. So listen here.

So listen here.

Musicians Ian McMillan and Luke Carver Goss contributed impromptu musical summaries of the academic discussions during Include's international symposium in Durham in September 2022.

We let excerpts of the improvised poems spice up this annual report.

### Message from the Chair, Vebjørn Bakken

It has been a pleasure for me and the Board to follow the Include group's activities and efforts in 2022. The research and research fellowship group is well established.

New students are attracted to our research environment. and this summer five students carried out Include-related summer projects with support from UiO:Energy, where I am the director. The collaboration between the partners and the researchers constitutes the core of Include's methodology, and we have several projects that are led by the partners and carried out in close collaboration with researchers. The PhD group now counts 12 candidates. We are very pleased that three of these candidates are affiliated with Include as industrial or public sector PhDs, which strengthens the relevance of research to practice and policy.

As a research centre, Include is expected to be the hub for initiating new research projects, and it is thrilling to see that the group certainly delivers on these expectations. In 2022, four new projects originating from the centre received funding. In total, since we started in 2019/2020, as many as 20 Include spin-off projects have received funding, with a success rate of 57% compared with the number of submitted applications.

Include has 23 participating partners from the public, private and voluntary sectors. Five representatives from the partners are on the Include board, where each representative is elected for a two-year period to give many of the partners the opportunity to participate during Include's

lifetime (2020–2027). I would like to take this opportunity to welcome five new board members to the Include board: Viken county, Tromsø municipality, Norwegian Association of Local and Regional Authorities (KS), Spire and TreFokus.

Each year Include reports the gender distribution of the participants in the centre, from master's students to board members, to the Research Council of Norway. The key takeaway is that the distribution between women and men is reasonably balanced, and we therefore do not use space in the annual report to share the details of the distribution.

There are many activities going on in Include. It can be difficult to keep track of participants and everything that is going on - but then this annual report will come in handy. Happy reading!



Vebjørn Bakken Chair of Include Board, Director UiO: Energy and



### Greetings from the secretariat: Tanja, Hege, Erik, Øyvind and Iris

In 2022, the Include group finally had the opportunity to meet in person, and so we did! The close ties between researchers and partners (practitioners) constitute a cornerstone of Include. We now see clear signs that our collaboration is affecting practice. One of our strategies to achieve this is to issue early publications of results and discuss them during the Include Partner Forum and other events as well as via our written Include series Results and recommendations, Reports, and Newsletters. We also work to change practices in our own organisations, ranging from municipalities to universities. This year we contribute one chapter in the annual report to document innovations.

Given Include's close attention to practice, and based on the results from a previous mapping of practitioners' felt need for knowledge, we developed a course in continuous learning 2022, aimed at practitioners and entitled Management for sustainability transformation, in collaboration with SUM and insam. The course was fully booked, and we conducted the first of a total of three sessions this autumn. The last part of the course will run in spring 2023. Depending on the evaluation of the course, we will consider running the course again in the future.

On the researcher side, Include's international conference in England in September was a clear highlight, where 13 of the participants from Norway travelled by train through Northern Europe. We took great pleasure in experiencing that Norwegian and British colleagues could finally meet. The train journey was somewhat strenuous, but socially and academically rewarding. We also made some new

research friends in Utrecht (the Netherlands), where we stopped on the way. This meeting resulted in, among other things, plans to have a guest researcher / PhD candidate from Eindhoven Technical University visit Include at SUM in Nydalen in the spring of 2023.

The high energy prices in Europe and Norway in 2022 influenced our activities in that we questioned fairness aspects of electricity prices and the support scheme for households on different occasions. We will continue our research in this field, for example in a new project on energy poverty. A just transformation also raises many questions about fair spatial (urban and rural) development, consumption, and municipalities' transformation efforts. In 2022, Include focused many of its activities in these areas, as reflected in this report.

As a research centre, we focus on both the nature crisis and the climate crisis in our work on inclusive transformation. During the Durham conference, Ben Anderson emphasised in his speech that there is a difference between crisis and emergency, and the last word we do not have a word for in Norwegian, as far as we know. The difference lies in the fact that a crisis is limited, concrete

and often experienced and handled by governments and authorities, while the concept of emergency is less concrete, experienced by more people and implies a time dimension and sense of urgency. Emergencies also imply hope, Anderson said. This is what we are driven by as a research centre.



**Tanja Winther** Professor and Head. Include



**Hege Westskog** Senior Researcher and Programme Coordinator, Include



Erik Berge Communications Adviser.



**Øyvind Sundet** Project manager/ Researcher



Iris Leikanger PhD fellow





Include: objectives, methodology and research plan

### Include: objectives, methodology and research plan

**Overall goal** 



Include's overall goal is to produce critical knowledge on how to achieve a just transformation to a climate- and environment-friendly society through collaboration between researchers and practitioners.

Include takes a comprehensive approach to studying how climate gas reduction, environmental protection and a systemic energy transition can be achieved in a way that is socially inclusive and just. Our name, Include Research centre for socially inclusive energy transition, reflects these ambitions. Include is funded by the Research Council of Norway (RCN) through the Centres for Environment-friendly Energy Research programme (Forskningssenter for Miljøvennlig Energi, FME Samfunn), 2020–2027.

### Why Include?

The forthcoming transformation to a climate- and environment-friendly society requires more than technological solutions, top-down regulations and innovative market mechanisms. Include, anchored in the social science disciplines, is well equipped to address some key challenges associated with the coming transformation for two reasons. First, policy instruments need to be perceived as relevant and fair to be socially accepted and gain legitimacy among affected communities and individuals. This would increase the feasibility of implementing the measures. For example, if regulations and initiatives coming from national authorities counteract actions that are perceived



1 Pakistan 2022

to be relevant on the local level, this may hinder the overall transformation. Protests against toll roads also illustrate that measures not perceived as relevant and fair risk becoming ineffective. This issue highlights the importance of understanding different perspectives and including the relevant levels of governance, organisations, groups and individuals in the process of forming transformative measures.

Second, it is not always the case that the most articulate and most vocal participants in public discourse surrounding a given measure represent the communities, organisations, groups or individuals most severely affected. Include examines how societal and social structures come into play when new measures are introduced: do they reproduce, strengthen or balance existing injustices, including those related to geographical differences, levels of governance and/or different socio-economic groups?

We draw on three tenets associated with the concept of social justice, which are as follows: how measures affect and involve different groups and actors (distributional justice), how different groups and actors are involved in decision processes (procedural justice), and whose perspectives are considered and who bears responsibility (recognitional justice). Include's work encompasses different sectors and disciplines, each representing a particular trajectory of concept development. Therefore, in our work the reader is likely to meet several versions of justice: energy justice, mobility justice and environmental justice. Across our work, we pay particular attention to

processes, whether they occur within municipalities, when municipalities interact with inhabitants and businesses or within grassroots initiatives. We hypothesise that socially inclusive processes will enhance transformation, but what social inclusion means in practice is an empirical question to examine, e.g., whether all groups and communities are represented in such processes and what can be done to ensure that the interests of all groups, including vulnerable groups, are taken into account.

### Methodology

The co-creation of knowledge constitutes one of the cornerstones of Include's methodology. This means that knowledge is produced through collaboration between partners in the public, private and voluntary sectors and the researchers at the centre. As a result of this collaboration, we are now seeing more signs that Include is leaving its mark through innovation at our partners. That is why this year we are devoting Chapter 9 to showcasing such societal impacts. The second cornerstone is *learning* through experimentation: based on the empirical results, we will test and document the effects of promising solutions for climate and environmental change and make recommendations for policy development for inclusive and equitable climate and environmental change. Include's core values (normative) are rooted in the urgent need to care for the global and local environment while ensuring social inclusion and fairness.

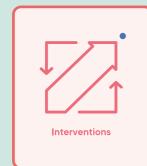
### Research plan and Work Packages



### Organisation of the research in INCLUDE:

- WP1 Energy systems in transition
- WP2 Energy spaces and flows
- WP3 Municipalities as change agents
- WP4 Interventions
- WP5 Learning across borders (UK)
- WP6 Synthesis, education and communication









Municipalities as **Change Agents** 

WP4

WP3

An overarching question that is common in Include's research is how the transformation to a climate- and environment-friendly society can be realised without increasing social differences between groups and individuals, either in Norway or elsewhere.



WP1

**Energy systems** in transition

### Work package 1 (WP1): **Energy systems in transition**

WP1 addresses stationary energy systems, starting with electricity. The existing Norwegian electricity system is primarily renewable (hydropower, although the share of wind power is increasing and solar power is starting to emerge); thus, a central question is how increased production of 'new' renewable electricity will affect the environment and communities and groups within Norway and in countries where resources are extracted. Another question is how subsidies and regulations affect small generators (micro hydro, wind, solar) compared with larger hydropower producers. Policies for distribution and end use of electricity highlight efficient use of resources and security of supply. Here, Include asks how regulations and measures impact different actors and different parts of the population. WP1 also addresses the question of diversification of Norway's energy carriers, starting with a study on bioenergy. Finally, Norway adopts EU directives with implications for numerous aspects of its energy sector. Here, we aim to understand and communicate the implications of such policies ahead of their implementation and how groups engage with EU policies.



Overall objective: Analyse and provide recommendations on how the ongoing energy transition of the Norwegian energy system may increase resource efficiency and value creation, reduce emissions and degradation of local environments, and be socially just.

### Sub-objectives:

- To understand how changes to a more decentralised, multidirectional and digitalised electricity system are determined, justified and experienced by stakeholders and end users, and the implications for energy justice, the environment and value creation.
- · To explore the pros and cons of increased diversification of national energy sources and carriers with respect to energy justice, the environment and value creation.
- · To identify the main drivers, barriers and energy justice implications related to Norwegian integration into the European energy markets.



### Highlight

### Impact of Include:

The Consumer Council and Lede Nett AS point out that Include's work has influenced how they work with energy vulnerability and the design of a model for new grid tariffs.



Photo: pexels.com





### WP2

Energy spaces and flows

### Work package 2 (WP2): Energy spaces and flows

WP2 expands the notion of energy to include embodied energy, and it focuses on space and the flow of people and goods, including consumption at large. By addressing public planning and the ways people live, work, commute and spend their leisure time, WP2 will examine how the transformation to a climate- and environment-friendly society can be achieved in a socially just manner. This implies studying how plans and measures affect people across different social markers, such as age, gender, income, education and ethnicity, and across different geographies, such as cities and towns, suburban versus urban, northern versus southern Norway, and Norway versus other countries.

### WP2 research objectives

Overall objective: Analyse the geographies and everyday practices of direct and indirect energy use and provide recommendations to ensure socially just and inclusive decarbonised energy spaces.

### Sub-objectives:

- To explore the direct and indirect energy use implications of urban and regional planning for buildings and systems of transport in light of current decarbonisation planning and design practices.
- To identify to what extent these practices lead to social and spatial inclusion and exclusion.
- To develop socially inclusive and sustainable energy planning and design strategies through co-creation with user partners.





### Work package 3 (WP3): Municipalities as change agents

The role of municipalities in driving the forthcoming transformation while meeting the needs of different groups is the focus of WP3. This includes investigating and analysing how the municipal organisation is preparing for and working towards implementing the necessary changes, how they involve the local community in their work and how the different levels of government collaborate to plan and implement socially inclusive transformative actions. Although the outcomes of transformative measures and policies for different groups and actors will be addressed, we will pay particular attention to the processes leading to the implementation of those measures. Crucial questions asked relate to which groups and actors are involved, in what way and for what reasons.



### WP3 research objectives

Overall objective: Analyse and provide recommendations on how municipalities can develop strategies and measures that ensure a socially inclusive transformation to a climate- and environment-friendly society.

### Sub-objectives:

 To identify practices and strategies that can be adopted to institutionalise socially inclusive transformative measures and policies.



### Highlight

### Innovation through practice-close research and dissemination.

The researchers and partners collaborated closely in a number of projects, some of which were also led by the partners, such as *Urban Agriculture* (Tromsø municipality), *The role of small-scale agriculture in climate and environmental transformation* (KS) and *The Game of Climate* (Lillestrøm municipality). The *Young Climate Management project* (Asker municipality) has contributed to several innovations to avoid participation in name only and to develop a model that promotes citizenship for children and young people in Asker. In 2022, partners held a whopping 53 presentations related to Include.



Lillestrøm municipality and Include researchers developing a climate game.

- To understand how municipalities and stakeholders can co-create solutions for inclusive processes towards a low-carbon society and the potential outcomes related to social inclusiveness, climate and environmental impacts and value creation.
- To understand how regional and national levels can contribute to realising municipalities' potential to act as agents for socially inclusive transformative measures and policies.



### Work package 4 (WP4): Interventions

The aim of Include is not only to study how a socially inclusive and just transformation to a climate- and environment-friendly society is possible, but also to work jointly with our partners to create concrete tools to achieve this transformation. WP4 builds on the research from the other WPs as well as on the knowledge and experience of Include's partners to develop, test and evaluate innovative interventions for societal transformation. Co-creation is a core pillar of the work in WP4: the proposed interventions are co-designed with Include's partners and other stakeholders and are tested, evaluated and revised in continuous dialogue with these stakeholders. In addition, many of the interventions focus on participatory approaches that encourage citizens to take part in the co-creation of social and environmental practices in their local communities.

### WP4 research objectives

Overall objective: Together with user partners, co-design, experiment and evaluate innovative measures with the aim of reducing emissions and creating a climate- and environment-friendly society.

### Sub-objectives:

- To explore how citizen participation and co-creation can be fostered using digital tools, for example, social media, digital representation, energy simulations, GIS systems and mobile media.
- · To understand how local organisations can be configured to improve socially inclusive planning to achieve a climate- and environment-friendly society.
- To identify tools, methods and approaches needed for the development of meta-level inquiry synthesising experiences from the different interventions for further use.



### Highlight

Fair transition as part of union strategies.

The Union of Education Norway is part of the global association Education International (EI). In 2022, it contributed to a report from EI on education for equitable transition, entitled



"Educators on a Heating Planet. Shaping Education Unions' Vision for a Just Transition".





### Work package 5 (WP5): Learning across borders

In this WP, we ask what Norway can learn from the United Kingdom. Durham County Council (DCC) has recently declared a climate emergency and proposed an action plan to implement measures to mitigate greenhouse gas emissions. Several Norwegian municipalities have also declared a climate emergency and developed climate action plans. What distinguishes the British response from the Norwegian one is, on the one hand, the extent of deprivation and inequality in the United Kingdom, where energy vulnerability (sometimes referred to as energy poverty) is a significant issue for UK energy policy and regulations and, on the other, the weak financial and policy position of British local authorities in a highly centralised polity. This explains Durham's focus on mitigating the energy effects of poverty and the position of vulnerable groups in their climate plan. The starting point for developing climate plans in Norway tends to be more focused on emission cuts, based on more abundant local powers than are available in the United Kingdom. WP5 aims to draw on UK experiences to reflect on how Norwegian local plans for climate emissions might more strongly integrate a concern for social justice.

### WP5 research objectives

Overall objective: Through comparative research in Norway and the United Kingdom, analyse lessons learned and provide recommendations for a socially inclusive transformation to a low-carbon society.

### Sub-objectives:

- To identify the strategic objectives of UK municipalities regarding the implementation of a socially inclusive and just transformation.
- · To carry out case studies with DCC focusing on knowledge transfer in the context of the tensions/correspondences arising between decarbonisation and social justice and considering the role of civil society groups and other actors in shaping new initiatives.



### Highlight

### International cooperation.

2022 was the year when Include's research group in Norway finally got the opportunity to visit its British partners! 13 people took the train ride from Oslo to Durham - via Utrecht, where we met a Dutch research group. In Durham we organised Includes' first international conference. Other international researchers have visited Include, and Include researchers have given keynote lectures in various international contexts, as well as contributed to international processes and in British forums in connection with socially just energy transition.



Dinner in Hamburg, heading towards Utrecht and Durham.

 Together with investigators and others from the research consortium, to contribute to the development of a curriculum targeted at public planners in Norwegian municipalities.



### WP6

Synthesis, education and communication

### Work package 6 (WP6): Synthesis, education and communication

WP6 will involve all research partners in synthesising the research findings and addressing cross-cutting issues. Further, it will develop educational programmes and research training of relevance to Include's focus area. Finally, under this work package communication between research and user partners will be secured, and results disseminated to our target groups. The target groups for Include's communication activities are the scientific community, partners and stakeholders, and the general public.

### WP6 objectives:

- 1. To provide a synthesis of our research findings.
- 2. To address cross-cutting issues for all Include partners.
- To contribute to research training and education within Include's focus areas by developing PhD and master's courses and creating a sense of community among involved students.
- To ensure communication between research and user partners and disseminate the results to the scientific community, partners and stakeholders, and the public at large.

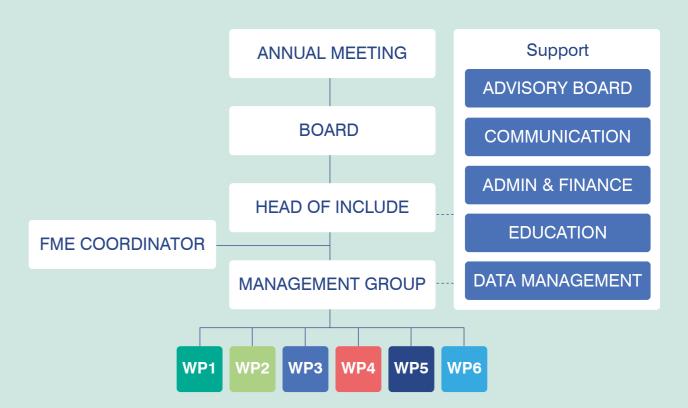


Researcher event at Voksenåsen, Oslo

### Organisation of Include

Organisational structure

### Include





### Include's Board



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### **Partners**

The Centre for Development and the Environment (SUM) at the University of Oslo hosts Include. In addition, five research institutions, both universities and research institutes, are part of the consortium. Durham University in the UK is our international partner. Include has 23 dedicated partners representing public, private and civil society actors. Our partners are actively involved in the centre's activities through Include's Board of Directors, where they have a majority, through Include's partner forums, reference group meetings and in project groups for individual projects. They are also invited to participate in workshops, lunch seminars and communication from Include by sharing knowledge that is essential for partner-relevant research.

### Research institutions













### **Partners**







































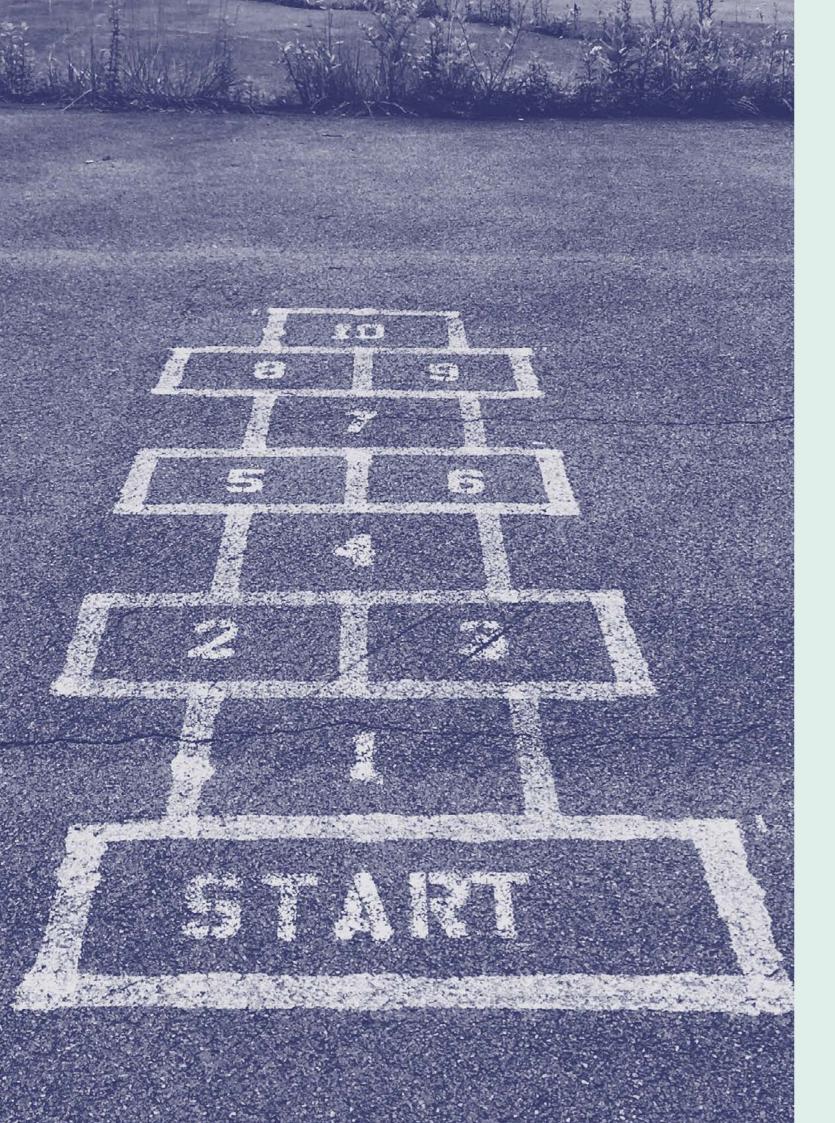














### Include in numbers



### Include in numbers

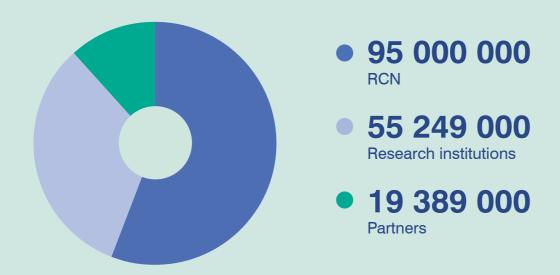
### Overall

Years:

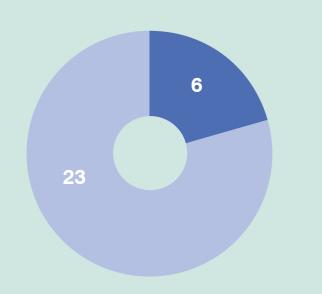
Budget:

8

NOK 169 638 000



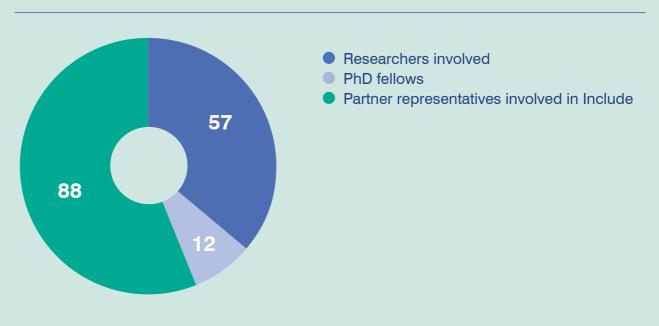
### Team, institutions







### Team, people



### **Projects**

Ongoing projects (incl. PhDs):



20 Cross-WP (of the above)



### Spin-off applications

Spin-off applications (national and international):

8

4

50%

**57%** 

Submitted in 2022

Granted in 2022

Include spin-off applications in 2022 have a success rate of 50%

Total number of spin-off applications from start-up:

35 Submitted

20

Granted

Include spin-off applications have a success rate of 57%

### CO<sub>2</sub> emissions 2022

Total registered CO<sub>2</sub> emissions from Include travel activities:

5 510 kg CO<sub>2</sub>

Registered CO<sub>2</sub> emissions saved by choosing climate-friendly means of transport:

3 500 kg CO<sub>2</sub>

Saved CO<sub>2</sub> emissions compared to choosing non-climate-friendly means of transport:

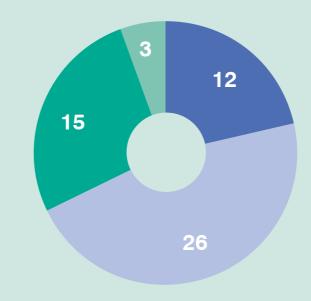
39%

### Education, 2022



- PhD fellows recruited in 2022
- Master's theses completed in 2022
- Summer projects completed in 2022
- MA/Continuing education course organised in 2022

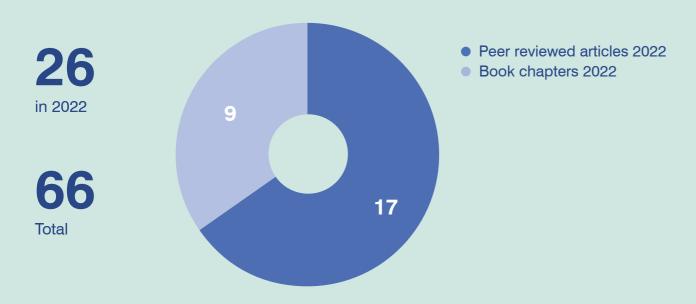
### Education, total



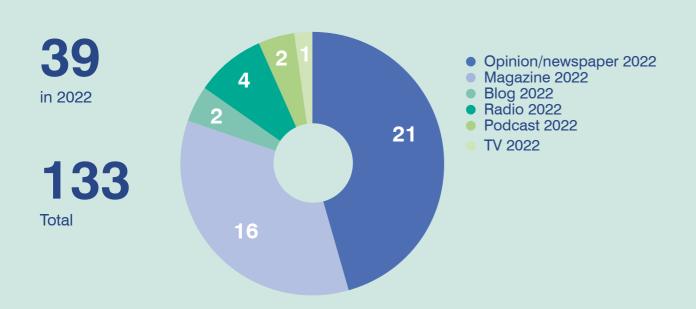
- PhD fellows recruited
- Master's theses completed
- Summer projects completed
- MA/Continuing education courses organised

### Communication

Academic publications (peer-reviewed articles and book chapters)



### Media contributions



### Presentations (by target audience)



### Online outreach

Website views in 2022

21 800 76 200

Total website views

**521** 

Newsletter recipients 2022

498 Followers on Facebook

2022

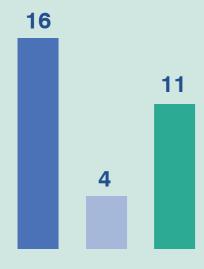
260 Followers on Twitter 2022

90

Participants at the Include's Research Conference 2022 in Durham

### Meetings, events and workshops

31 82 in 2022 Total



- Include events with external participants 2022
- Internal meetings and workshops for the entire project team 2022
- Management group meetings 2022

Oh the nine million page report!
Oh the nine million page report!
Like a cheap holiday in a budget resort
The nine million page report.

No one's eyes glazed over

No one's eyes were double glazed. I personally just sat there, and I was amazed. The Electrical Grids Commission's report was nine million pages long,

and it kept us warm through the winter

when we set fire to it.

Oh the nine million page report

the nine million,

like a budget holiday in a cheap resort.

the nine million page report

So many climate emergency declarations more ambitious than the people at the top.

So many local energy systems could be a movement you can't stop.

So much community energy to keep us all warm and lit

some of it technical, some of it social,

all of it trying to fit different circumstances,

all of it trying to fit

everything is linked

everything is linked before the signature is inked on the contract.

Remember, everything is linked.

Several transitions not one

Several transitions at one time, all the pathways, so many pathways to take, could

you take the wrong pathway, would that be a global mistake?

Transition is a lauded word almost too big for three syllables. Some people say it's only wind. But there's more to that.

Transition is political.

There's transit in it.

There's a rant in it.

You can sit in it

and look at it.

There's no answer in it just half an answer

Oh the nine million page report!

Oh the nine million page report!

Like a cheap holiday in a budget resort

The nine million page report.

The hydrogen strategy is very interesting,

but everyone speaks very highly of the helium strategy

We have eaten the lunchtime. So perhaps we won't have time for the afternoon.

Oh the nine million page report!

Oh the nine million page report!

Like a cheap holiday in a budget hotel

The nine million page report.

Poem by Ian McMillan, performed by Ian together with Luke Carver Goss during Include's International Conference in Durham, 14 September 2022





Research 2022

### The research in Include in 2022

In 2022, we had 46 ongoing projects in Include, most of them with partner involvement. Our projects have both shorter durations, such as pre-projects, and longer durations in the form of researcher projects and PhDs. We also have projects led by the partners. All projects with the exception of PhD projects have been approved by the Include Management Group on the basis of a project description (in template). PhD projects follow the normal procedure with announcements, admissions and with Include researchers as supervisors. The work packages in Include have partly overlapping themes, and we have extensive collaboration across the work packages both to exploit synergies and to create a good basis for the synthesis of Include's work. One example is TØI and FNI's work on a project on electric cars and solar cells (a collaboration between Include WP1 and WP2). Preliminary results from the project were presented at Include's conference at Durham University in September 2022.

An important goal of the research gathering we had in May 2022 was for researchers and PhD candidates to get to know each other's topics and projects. We also worked on opportunities to link the results from different projects. Our PhD candidates gather regularly and contribute to interdisciplinary discussions in Include. After a flying start in the form of an exclusive gathering for PhD candidates in Durham in September, led by Kirsten Jenkins and Andres Luque-Ayala, the group started work on a common, conceptual article on energy justice and related concepts (see Research training and recruitment).

In 2022, many of the projects had been going on for some time, and this is reflected in a growing body of results. This year we have therefore chosen to include shorter reviews of many projects in order to showcase interesting results and the breadth of the research we do.



### Highlight

### Sustainable consumption

Include partner Future in Our Hands (FIVH) won the Bergen Prize 2022 for its work to combat the natural and environmental crisis and food waste. An Include researcher contributed to two books in the Palgrave series *Consumption and Public Life*, which came out in the autumn of 2022. Include partner Asker municipality has held many presentations about its efforts to achieve sustainable consumption and reuse, both in the *Klimasats forum*, in waste networks, and within its own municipality.



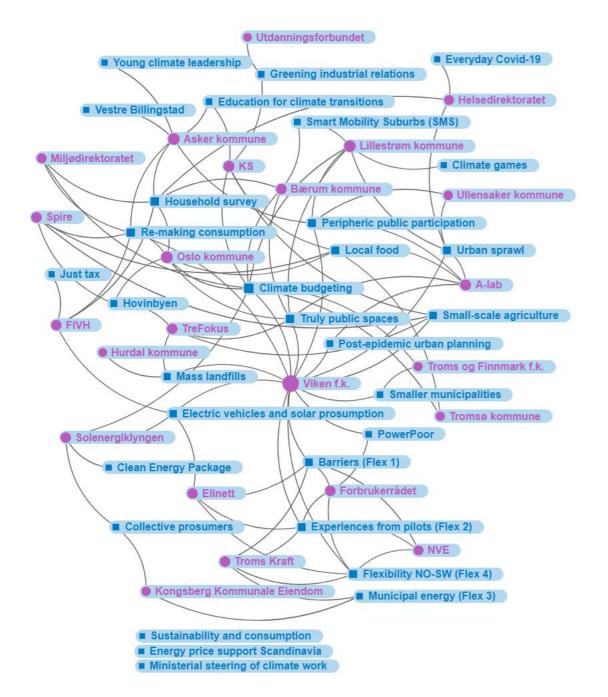
Photo: Foerster, Wikimedia Commons

### INCLUDE THEMATIC OVERVIEW **WORK PACKAGE** Transformative Synthesis and working across **Restructuring of** Institutionalisation policies at the energy systems of climate policies municipal level in the UK Electrification versus diversification of THEMES Involving the local Education national energy ources and carriers implications of EU governance and Communication energy integration for Norway management

The overall project portfolio is illustrated in the Thematic overview figure. The main topics within each work package have projects that shed light on the topic.

### TYPE

- Partner
- Project



The network figure shows all Includes' projects (blue), connected to involved partners (red). Figure by Henrik Bentzen.

### Glimpses from the projects



### Sustainable cities and regions

### Two research projects on the Covid-19 pandemic

Include has conducted two research projects on the impact of the corona pandemic on urban planning and everyday life in households, respectively. The project Post-epidemic urban planning investigated how urban planning, socioeconomic status and travel preferences affected the spread of infection, as well as the pandemic's impact on land use and transport policy and planning. Preliminary results from the project show that areas with low socioeconomic status and a high degree of cramped living conditions had higher infection rates, but that areas with high use of public transport were not particularly vulnerable. The project Everyday Covid-19 is part of a larger international research collaboration on how the pandemic has affected, reinforced or changed households' routines and habits related to travel, food and leisure. The researchers have specifically looked at habits that were permanently changed after the pandemic ended. Working from home is highlighted by many as a practice

### Highlight

### Covid-19 from an Include perspective

Two of Include's projects have focused on Covid-19 and have published five peerreviewed articles on the topic of everyday life during Covid-19 as a feature issue in the journal Sustainability: Science, Practice and Policy. In addition, two papers on the implications of the pandemic on land use and transportation in urban areas have been submitted for peer review.

they want to continue after the pandemic, and the time freed up by avoiding travel to and from work is used by more people to exercise, cook and spend time in nature. However, research also shows that social inequalities have deepened during the pandemic.



### Sustainable urban regional development

The RCN-funded project *Smart Mobility Suburbs* has been carried out in collaboration with Include. The project has focused on suburbs, which have received little attention in previous research on urban regions and sustainability. The project has investigated how planning and management of development in suburbs and regional cities (such as Sandvika, Ski and Lillestrøm) contribute to regulating and changing travel practices in the Oslo region, and how this policy may have consequences for geographical social



### Highlight

### Sustainable urban development.

In 2022, we have published several scientific articles from projects on sustainable urban development and widely disseminated popular science on the topic. This includes publications on the planning of the Oslo region, as well as dissemination activities at TreFokus on circular buildings, TØI on land use and transport development, and the Department of Sociology and Human Geography (ISS, UiO) on mass landfills from construction projects.

inequality. The research shows that the municipalities have taken on an active and demanding management role in the work of densification of regional cities around public transport hubs, but that they face several challenges in coordinating different requirements and planning strategies, resistance from the population to restrictions in passenger car traffic, and in cooperation and participation with developers and civil society.

### Peripheric public participation

This project focuses on the impact of measures to transition to a low-emission society in cities and central areas for people living in rural areas. Lillestrøm municipality and Ullensaker municipality are case municipalities. Researchers have analysed planning documents and interviewed municipal administrative staff. The findings show that residents in the rural periphery are not very visible. They are not recognised as bearers of special interests, there is no special provision for participation for this group, and they are not specifically mentioned in planning documents and reports. Interviews with elected representatives in the municipalities show that the elected representatives to some extent contribute to the fact that residents in the rural periphery are heard, seen and taken into account. But there is variation. The elected representatives often have an unsystematic approach to the topic. A sub-project also shows that when bus routes are planned, little attention is paid to the situation of residents in the rural periphery.

### Sustainability in rural areas

### **Attractive living**

This pilot project aimed to extract experience and knowledge from ecovillage projects to develop concrete models that can be used in different forms and in different communities in Norway. There is often a focus on urban and green solutions in cities, but a balanced development in the future will require a corresponding focus on sustainable local communities also outside the cities. We need implementation models based on experience from the projects. Ecovillages are one such model, but this model must be renewed so that it becomes both more integrated into the local community and more inclusive, and thus relevant for "everyone". The pilot project has gained knowledge and experience from Norwegian ecovillage projects, interviewed resource persons and conducted literature studies. The results show that ecovillages represent an interesting model for local community development as it involves a holistic approach that links together sustainable housing, organic farming, jobs, community and social/cultural life. Through this, measurable results are achieved in several fields, such as a documented and significantly reduced ecological footprint. The challenge is that it has proved very demanding to realise such projects and that there is

### ↓ Hurdal økolandsby



a tendency for these projects to remain partially closed communities, which are not sufficiently integrated into the local environment. Hurdal ecovillage and the Green Island project (Grønn Øy-prosjektet) at Tjøme represent a step towards creating a more open and integrated model. The implementation of sustainable housing projects can act as a generator for a broader transformation in the local environment. Based on these experiences, the pilot project outlines a model for green transition that can be used in many different situations and local environments. Specifically, it is proposed to establish priority areas, called "green zones", where support is given for testing and experimentation, while at the same time establishing some framework conditions that allow innovation to take place. Green zones can be developed as a method and a support for a larger initiative, where society contributes with financial frameworks and framework conditions that make it possible to try out different types of solutions.

### Low-populated municipalities and sustainable land use

In this project, the researchers have studied land use in municipalities with a low population. Within four categories of built structures in the municipalities of Sigdal, Frøya and Åfjord, there has been an expansion of a total area equivalent to 700 football pitches over a ten-year period. In Åfjord and Frøya, it is reasonable to link the large land use to the development of wind power. In Sigdal, the extensive land use can be linked to the fact that the municipality is one of the country's largest cabin developers. For rural municipalities, the possibility of designating large areas for different purposes is considered a competitive advantage compared to more densely populated areas. However, the areas often serve the needs of society at large. Extensive development of holiday properties in Sigdal serves the needs of the Oslo region, and the development of wind power on Frøya and in Åfjord is of national interest. Several actors from these municipalities question what they get in return for allocating large areas for the society at large. The fourth municipality in this study, Flakstad, also illustrates this. Although the restrictive land use here is rooted in a nature conservation perspective, it is also linked to an entrepreneurial strategy to attract international tourists – which in itself is not sustainable. There is therefore a need to look beyond the local level as a frame of reference for analysing land use and local sustainability strategies.



### Highlight

### Work on sustainability transformation in municipalities

The project Low-populated municipalities has shown how sustainability at the local level is linked to practices that are not sustainable at higher geographical levels. The project Peripheric public participation points out that residents from rural peripheries are not recognised as bearers of special interest in climate measures in municipal centres. The project *Local food* shows how local food can play a role in the work on local sustainability transformation. Many of Include's researchers as well as partners from the Norwegian Environment Agency, KS and Tromsø municipality have communicated widely on this topic in various forums.

### Local food

Can a stronger focus on local food contribute to local community development? This question has been the starting point for an Include study. The literature points out that local food provides opportunities to reduce negative externalities associated with globalised and industrialised food systems, such as poor animal welfare and negative effects of monoculture, pesticides and fertilisers on biodiversity and ecosystem services. Local food systems can further help to reduce the distance between consumer and producer and provide more social sustainability and a stronger connection to place and local community development. The IPBES argues for a more diversified agriculture that engages actors other than producers to achieve a sustainable food system.

The study is qualitative and based on document studies and in-depth interviews at the municipal level and among local food operators and households. Three Norwegian rural municipalities have been the cases in the study: Hurdal, Inderøy and Vågå. All three focus on local food, and the fact that they are located in rural areas was one of the criteria for the selection of municipalities. The results show the importance of informal and alternative channels for the exchange and distribution of local food as a basis for local community development. This enables a direct link between producers and consumers of food. Forms of exchange other than the market may thus be an important focus area in local community development. Furthermore, the study shows that producers and consumers of local food are often motivated by so-called moral considerations such as contributions to the local community, animal welfare and support for local farmers. Profit and self-interests play a role, of course, but often come second. The study also points out that local food is often associated with more affluent people and/or with special occasions. Nevertheless, there are traces of local food being perceived as "everyday food" in our case municipalities, which reflects that this type of local food can also be for the many and not just the few. Attention to food justice is required to make local food accessible and relevant to all groups of people, as an important contribution to sustainable and equitable local community development.

### Local energy opportunities

Utsira, a weather-exposed island community in the North Sea, is Norway's smallest municipality measured in population. At the same time, it is precisely the island geography that makes Utsira a particularly interesting place for testing and developing new grid solutions, due to the limited connection to the regional power grid. The archipelago hosts the world's first wind-to-hydrogen production plant that supplies energy to households. In the project Local energy opportunities, Include investigates the opportunities for fair and inclusive transition that lie in the transition to new energy technology at Utsira. The project looks in particular at the municipality's role in cooperation with business actors and in relation to its own citizens. Preliminary results show that the municipality has been proactive and accommodating towards companies that have been interested in establishing themselves in the municipality. The municipality also plays an important facilitating role in making interested external actors aware of the benefits Utsira can offer. At the same time, accommodating a positive approach towards external actors is

not the same as accepting all proposals and initiatives. Utsira has a limited land area at its disposal, where much is already protected, and any use of available land must be subject to thorough and sober assessments. This was also the practice in Utsira municipality. Nevertheless, there are several challenges for a small municipality like Utsira in facilitating large business players. This can make safeguarding residents' initiatives and interests more challenging given that the area is limited, and this can affect the municipality's relationship with its inhabitants.

Facilitating cooperation between the municipality and the local grid company is a useful starting point for municipalities to create the driving force behind a local energy transition. A proactive attitude through direct contact with one's own local grid company to explore common opportunities and interests can be a good strategy, but at the same time the interests and wishes of residents must be safeguarded in facilitating the energy actors.





Photo: Steinar Johansen, flickr

### Sustainable energy solutions

### **Bioenergy potential**

This study has looked at the potential of bioenergy from Norwegian forests in the green transition of society. Forest resources that are relevant for bioenergy are being mapped together with an assessment of how this can be weighed against other societal interests, such as the production of material, nature conservation and outdoor recreation. The focus is on Viken county and Oslo. The study shows that bioenergy can play an important role in the green transition, but its potential should not be overestimated. The production of bioenergy must compete with other uses of material from the forest, primarily timber and fibre for industry, which has a higher value than bioenergy. Firewood and pellets can be produced locally and on a

small scale, while biofuels must be produced on a large industrial scale and therefore result in more logging. Local logging and the production of firewood is an important supplementary industry for farmers and small forest owners, and this is easier to combine with nature conservation and outdoor activities than industrial logging for biofuels, timber or fibre. Forests must also provide ecosystem services such as nature conservation and biodiversity, carbon storage as a climate measure, and outdoor recreation. There will be less conflict with other societal interests if larger parts of the forests are protected, especially near the cities, while other forest areas are open for logging.



### **Energy ageism**

This pilot project (summer study conducted by three students, supervised by a senior researcher) aimed to understand more about older people's relationship to their own electricity consumption and technology and how this can be understood in light of a fair and inclusive energy transition. The term "energy ageism" denotes various forms of exclusion and discrimination against the elderly in connection with energy transitions.

The analysis shows that older people in Norway generally have a socioeconomic status above average, have a generous space to live in, are largely satisfied with their lives and have a conscientious attitude towards energy consumption. In addition, Norwegian elderly are world leaders when it comes to digital competence for their age group. Most of the elderly interviewed in the study did not feel discriminated against on the basis of age. Experiences reported by some may nevertheless indicate that they are being discriminated against. This is due to a lack of digital knowledge and the use of digital technologies. Although many elderly people today have a good relationship with technology, the development is very fast. They are unable to update their own knowledge of current technologies. Many see participation in courses in digital training as a defeat as it highlights their lack of digital knowledge and social networks. Increasing digitalisation and "smart" solutions may increase barriers to elderly participation as the energy transition unfolds. Norwegian seniors are in a relatively good position compared to the same age group in many countries in the world, but there is a need for conscious integration of social policy into energy policy and monitoring of social inclusion in the energy transition.



### Gender energy transition – development of a theoretical framework

This project has developed a theoretical framework for understanding why men and women differ in regard to their ability to participate in and benefit from transition processes. The project is based on data from an Include researcher's doctoral thesis, with the implementation of solar-based microgrids for electricity in the north-Indian countryside as a case study.

Based on the study of the energy project in rural India, the project has developed a theoretical framework that combines the concepts of "justice" and "capital". In this context, justice refers to three principles that are often used in fairness theory: fair distribution, fair recognition and fair processes. The term "capital" is intended to highlight how women in many contexts lack different types of social, knowledge and economic capital, in addition to symbolic capital (more hidden power and related to status).

The study of the energy project shows how such a theoretical framework can reveal gender differences that, in for participation, less decision-making power and achieve fewer benefits in the energy transition. It provides important theoretical and empirical knowledge about how inequality in local communities is "transferred" to new energy systems in the transition to a low-emission society, unless action is actively taken to ensure that everyone involved is recognised as legitimate actors.

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### Partner involvement and partner-driven projects

Partners of Include are actively involved in its project portfolio. Researchers and partners hold regular meetings to discuss research questions, research design and preliminary results. Partners also share their knowledge through presentations to the public. Scientists advise partners in their work, for example by giving input to municipalities and counties' work with population surveys to be conducted. Include has several user-driven projects where partners have the main responsibility for project implementation and initiation of projects. In 2022, we have implemented four partner-driven projects within the topics of participation and democracy in climate and environmental transition, sustainable place development, sustainable agriculture and green multipartite cooperation.

### Participation and democracy

In collaboration with Lillestrøm municipality, Include is investigating the possibility of using gaming technology to increase children and young people's democratic participation in the municipality's climate planning. The project Climate games is a qualification project, with the aim of developing an application for a larger project. A game is being developed that will function as an arena for participation for children and young people and as a learning tool for teaching about climate, sustainability and citizenship. What is unique about the game is that it will act as a bridge between children / young people's involvement and climate planning in Lillestrøm municipality. This involves the clarification of several issues: who should be involved in the collaboration, current research challenges, which arenas of participation are suitable for testing and how can they be facilitated. The results so far indicate that a gaming platform may have the potential to strengthen the

democratic participation of children and young people, as well as the work on citizenship as a topic in schools. However, there are many challenges related to how the municipality organises its work, to what extent the municipality is ready to handle dialogue with children / young people and the input that is put forward, and to what extent work based on a co-creation platform can be integrated with other ongoing work, e.g., on planning.

Include also follows the work of SEIL (Centre for Innovation and Learning) in Asker municipality. We are particularly concerned with citizenship, climate work and upbringing. Young climate leadership is a project led by Asker municipality that deals with how children and young people in the municipality can be included in climate work. There are two tracks in this work: We have followed the youth council in Asker and analysed how they have been included in the political work. Findings from this study show that there is a need for more training and adaptation for the Youth Council and that no mechanisms have been established in Asker for the youth council to promote its own cases.



hoto: colourbox.com



The study also shows that the Youth Council developed its own arena for learning from each other about how political issues are handled. This study will form the basis for further work related to learning opportunities and culture in the Youth Council, how to achieve active participation, and assessments of the Youth Council's latitude for action has in climate matters.

The second track develops a model for promoting citizenship in Asker that includes digital platforms. This is related both to residents as a whole and to the work with children and young people. Among other things, we have looked at a digital platform for participation, Decidim, which has also been chosen as a platform by the Smart City Network's working group for citizen involvement and which is supported by KS. Discussions have started on how Decidim can be used and introduced in Asker, and this work continues. For children and young people, the project has initiated an assessment of "Barnetråkk" as a method for strengthening cooperation between schools and planners in the municipality. This can have great potential as the municipality is interested in implementing systematic use of Barnetråkk at a given stage in all schools and using this database as a basis for land-use planning.

### Place development

Researchers in Include are participating in a "Pådriv-arena" for area development at Breivoll in Oslo. This is an arena that brings together many actors who are concerned with the development of this part of Hovinbyen, especially in relation to mobility and to base place development on Breivoll's history with many smaller production companies. The arena will present concrete proposals for pilot projects

and contribute to their realisation. An Include researcher is represented on the steering committee for this arena. Some of the overarching questions that have been discussed are whether there is room for manufacturing companies in the vision of Breivoll, whether it is possible to shift such activities towards more sustainable solutions based on reuse, "green jobs" and extensive cooperation between business and manufacturing companies based on circular economy. Furthermore, it is discussed what is required to achieve such a radical mix of functions where both housing and production are accommodated.

There are two working groups focusing on:

- Breivoll as a junction: This is based on an idea to establish a station by the railway that runs through the area.
   This could open up the possibility of seeing Breivoll as a hub for public transport, densification of various functions around the station, and easier cooperation for business and manufacturing companies.
- Transfer experiences from Vollebekk factories to Breivoll:
   The goal is to establish Breivoll factories in existing premises in the area, inspired by and modelled after the factories in Vollebekk. The work involves mapping people, businesses and premises that want or may be interested in such a transfer, possible links to educational institutions in the area, and genuine inclusion of residents, especially children and young people at Breivoll.

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Photo: Ole-Martin Grav, VG, NTB scanpix



Small-scale farmers on the farm Herfra

### Sustainable agriculture

### Agriculture in and around cities

Researchers in Include have carried out a project on agriculture in and around cities in close collaboration with Tromsø municipality. In the study, we have explored how the municipality can contribute to establishing local food systems for food, how local food can contribute to sustainable social transformation and what barriers exist for such short-lived cycles. The results are used, among other things, as input on Tromsø municipality's agricultural plan, which is now under revision. In our study, we have identified a strong local commitment to local food in Tromsø municipality, but also that knowledge of the local food offering is limited. Furthermore, local food is perceived as not very accessible due to price, outlets / marketplaces and fragmented information. Based on our results and findings, we have the following recommendations and suggestions for measures that the municipality can use in its further work with urban agriculture and local food in a transformative perspective: 1) Tromsø municipality can make greater use of its role as a societal actor by facilitating and initiating transition processes in a sustainable and circular direction. This may involve, for example, connecting local agricultural actors in a network

and initiating processes in the local community for sustainable transformation related to agriculture, 2) Previous research shows that direct contact between local food producers and consumers can have a positive impact on the local population's experiences of place identity and the development of communities that underpin circular processes. The municipality plays an important role in facilitating physical and digital marketplaces where local food producers and consumers can meet, 3) The municipality has the opportunity to use its purchasing power to create greater demand, make available and spread knowledge about local food to people in the municipality; 4) Policy instruments are fragmented. Here, the municipality can take a role in creating dialogue and connnecting different policy areas to provide a more comprehensive support service to local food producers; 5) The debate on the production and consumption of red meat in a climate perspective shows that changes in behaviour are challenging among both consumers and producers. The municipalities play an important role as facilitators and as premise providers iin transforming towards a sustainabile society; 6) In previous agricultural plans and land-use planning work, the municipality of Tromsø has focused on soil protection in urban areas. The study underpins the importance of this work and points to the need for political clarity, a long-term perspective in the municipality's

land-use planning, and follow-up of decisions. Greater interaction and co-creation of experiences between the municipality's inhabitants and local agricultural actors can also contribute to greater support for soil protection.

### Small-scale agriculture and forestry

We have also carried out a pilot project on small-scale agriculture and forestry in collaboration with KS. We have shed light on small-scale actors' everyday lives, motivations for and opportunities and barriers they encounter in their work, and through this have provided some indications of whether and how small-scale agriculture can contribute to local climate and environmental transformation. We show that small-scale actors within agriculture and forestry tend to focus on quality and diversity in their production rather than on quantity. Because there turned out to be relatively few actors engaged in small-scale forestry, we have also included informants associated with environment-friendly forestry, such as traditional craftsmen.

The motivation to engage in small-scale activity is primarily driven by what can be called moral judgments and values, for example by passing on traditions or a strong commitment to climate and the environment in one's own operations. The barriers the informants face are many. Both low hourly wages and capacity were highlighted by many.

They also mentioned scepticism from the local community as a significant barrier. The benefits of operating on a small scale included climate and environmental aspects and further processing of food and facilitation of tourism. However, in order for this to be realised, according to our informants, agricultural policy must be changed through a better and more adapted support system emphasizing nature- and climate-friendly operations. Here the municipalities have a role to play. An interest group for small-scale forestry was also called for.

Many of our informants questioned what society at large appears to value, for example by pointing out that support systems for agriculture are geared towards operations that are largely fossil-based, characterised by quantity rather than quality, and place little emphasis on aspects of biodiversity or the needs of individuals. They also emphasised the value of simple living without great material welfare, and some mentioned that downscaling can be a way to go for them in order to have a greater quality of life and more quality in production. This points to a need to discuss what values we want to emphasise in today's agriculture and local community development in a climate and environmental perspective.



### Greening industrial relations in Norwegian municipalities

In this project, we examine the conditions for green industrial relations in the municipal sector. The municipalities are potentially important players for change in the fight against climate change, which is why it is important to look at the possibilities of involving the municipality's own employees in such processes. The local industrial cooperation and the collective agreements on which this is based are a cornerstone of the Norwegian working life model, and awareness of the potential of anchoring the work on sustainability transformation in this is increasing.

### This project asks:

- Why should the local industrial cooperation prioritise climate and sustainability transformation work?
- How can the Basic Agreement's (Hovedavtalens) mission statement be translated into local practice?
- How can employee representatives get involved in climate and environmental change?
- How can the trade unions facilitate the participation of their own union representatives in such work?
- How can the municipality as an employer facilitate such an expanded understanding of the multipartite cooperation?

The project is a collaboration between researchers at UiO, the Union of Education Norway, the Norwegian Union of Trade Unions, NITO and KS - the Norwegian Association of Local and Regional Authorities. KS, which negotiates on behalf of all Norwegian municipalities except the City of Oslo, has agreed in its basic agreement with the municipality-related associations in Norway that environmental, climate and sustainability work shall be part of the local multipartite cooperation. In other words, the municipality's climate and environmental measures must be discussed with the employees' representatives. In collaboration with partners, we have prepared an Include report on local multipartite cooperation for sustainability in the municipal sector and the role of employee representatives in municipal climate and environmental work. This brings together arguments for why local employee representatives should be involved in sustainability issues, particularly related to climate and the environment, and more practical aspects of how employee representatives can engage in climate and environmental change through the local multipartite cooperation. In addition, a memorandum has been written on the characteristics of good cooperation between the parties locally, and how this can be transferred to local cooperation on climate measures in the workplace. Here, the general research on multipartite cooperation in the public sector - not related to climate and environmental issues, but with a view to the transfer value this field can have - is reviewed in the form of a concise and easy-to-read knowledge compilation.

## sustainable

This poem is sustainable

This poem

This poem uses recycled materials

This poem

Oh the nine million page report!

This poem is sustainable.

This poem uses recycled materials.

This poem rides an old bike.

This poem uses reused rhymes. This poem is getting ready for the coming dangerous times.

This poem, isn't an Eco-jerk

This poem lays its own eggs.

This poem turned down the heat at certain times each day.

This poem fills up the washing machine - doesn't matter because Poets don't wash anyway.

This poem needs time and availability.

This poem isn't wrapped in Plastic crap.

This poem's Grandad bought it a dinosaur, but we'll all soon be extinct anywhere.

This poem grows its own metaphors.

This poem has pre-loved lines

This poem lives in a brand new house.

This poem lives close to a workplace.

This poem lives close to a bar

This poem live close to a library, because that's where the poets are.

This poem likes to walk to the shops on its metric feet

down the long and winding street,

This poem feels quite gentrified.

This poem feels urban and green.

This poem's got nowhere to run and hide

This poem is always seen.

This poem finds its way to central station

With a speed that's frankly obscene

This poem has spatial capital

This poem is not to be missed

This poem is on the up and up

It's a spatial capitalist

This poem has solar panels

Beneath its poet's cloak

This poem's lines are so heated

With every rhyme they seem to smoke

This poet cannot be insured

It's been flooded too many times

It has to rely on a dodgy landlord

Who steals its images and its lines.

This poem doesn't know what to do This poem has been caught short

This poem I have to seve to you

This poem, I have to say to you,

Needs a nine million page report

This poem

This poem is sustainable

This poem

This poem uses recycled materials

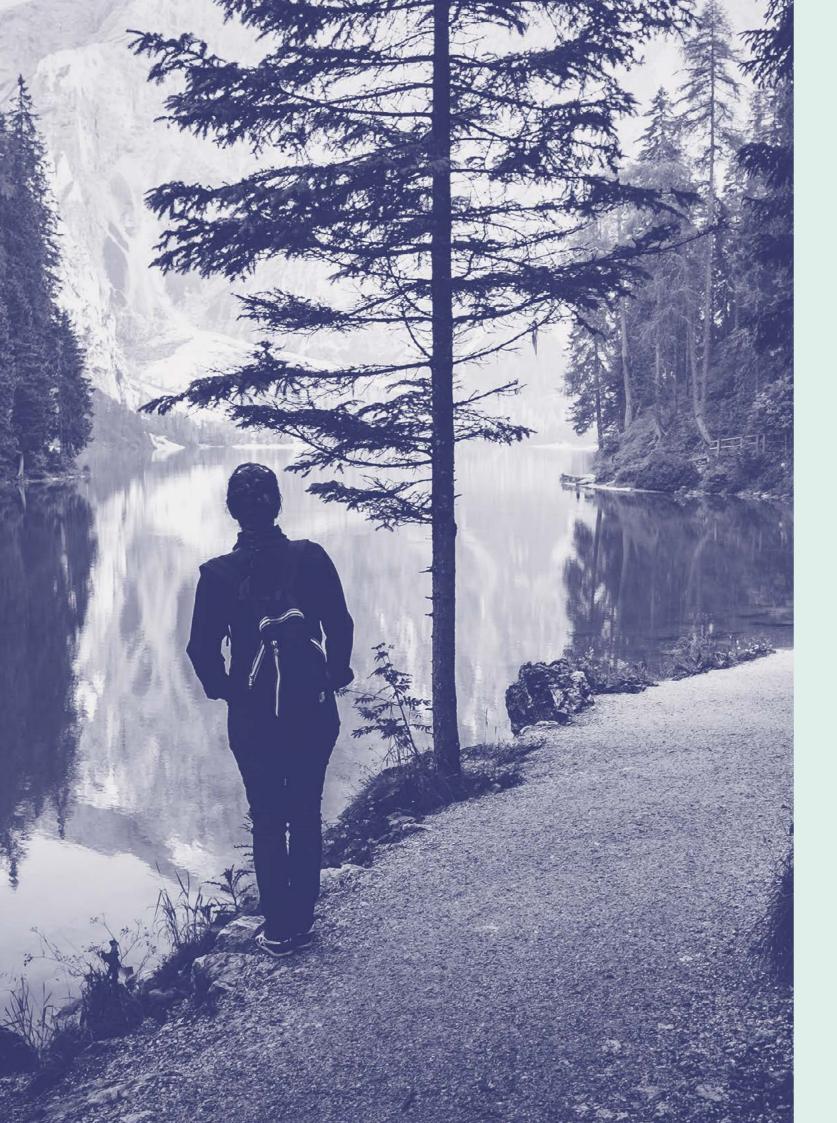
This poem

Oh the nine million page report!

A just transformation, not just a transformation

Oh the nine million page report!

Poem by Ian McMillan, performed by Ian together with Luke Carver Goss during Include's International Conference in Durham, 14 September 2022





Include's environmental strategy is beginning to have an effect

# Include's environmental strategy is beginning to have an effect

#### Travel

Include has put a lot of effort into developing an ambitious environmental strategy and following this in practice. We have a specific policy for travel. Travel must be assessed with a view to whether it is necessary and carried out in the most climate-friendly way as possible (land-based mainly). Every year, we ask the researchers in Include to register CO<sub>2</sub> emissions for their travels and to state what they may have saved from CO<sub>2</sub> by travelling with other, more climate-friendly alternatives than airplanes. In 2022, a total of around 3 500 kg in CO<sub>2</sub> emissions were saved according to the registrations, in connection with travel to fieldwork and conferences. Not everyone registers their travels, so the number is probably slightly below what we have saved by using alternatives to airplanes.

The train journey to Durham provides a good example of how we saved the environment significant CO<sub>2</sub> emissions, regardless of what each scientist recorded. Many of the Norwegian participants at the Include conference in Durham travelled by train to the conference. The journey Oslo-Durham for 13 people by train produced 3 780 kg CO<sub>2</sub> emissions according to the figures from Include's emissions calculator. If these people had travelled by air, this would have meant 6 864 kg CO<sub>a</sub>. In total, the group thus saved 3 084 kg CO<sub>2</sub> by travelling by train rather than plane, and this is the calculation for only one way. In addition, we had the pleasure of socialising, engaging in good discussions and creating a close-knit group of PhD fellows, as reflected by the observations of one of our senior researchers.



↑ Ready for departure to Durham

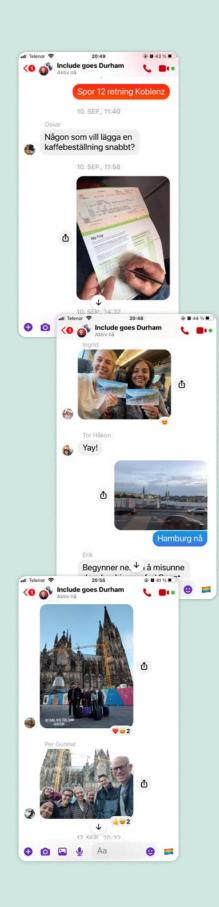
#### The importance of a long train ride - environmental considerations turn into social glue

"Who would have thought that we would be looking forward to getting back on the train in Durham after three intensive days of organising and attending conferences? Having already spent three days on ten different trains and 2600 km from Oslo to this beautiful city in Northeast England? We must confess that our group of 13 scientists and PhD candidates initially decided to travel by train for environmental reasons, having calculated in advance that we would only have 55% of emissions compared to flying. Nevertheless, we also wanted to take the opportunity to explore how easy or difficult it would be to travel through Europe – and how the UiO-hired travel agency could deliver this type of service.

But perhaps in the same way that people living in ecovillages tend to choose this way of living for environmental reasons and end up celebrating the social aspects - the train ride seemed primarily to serve as social *glue* for our newly established group and research centre."



↑ Itinerary Oslo-Durham via Utrecht 9-12 September. Return via Cologne 16-18 September. Map created by Marieke van der Star.











#### Food

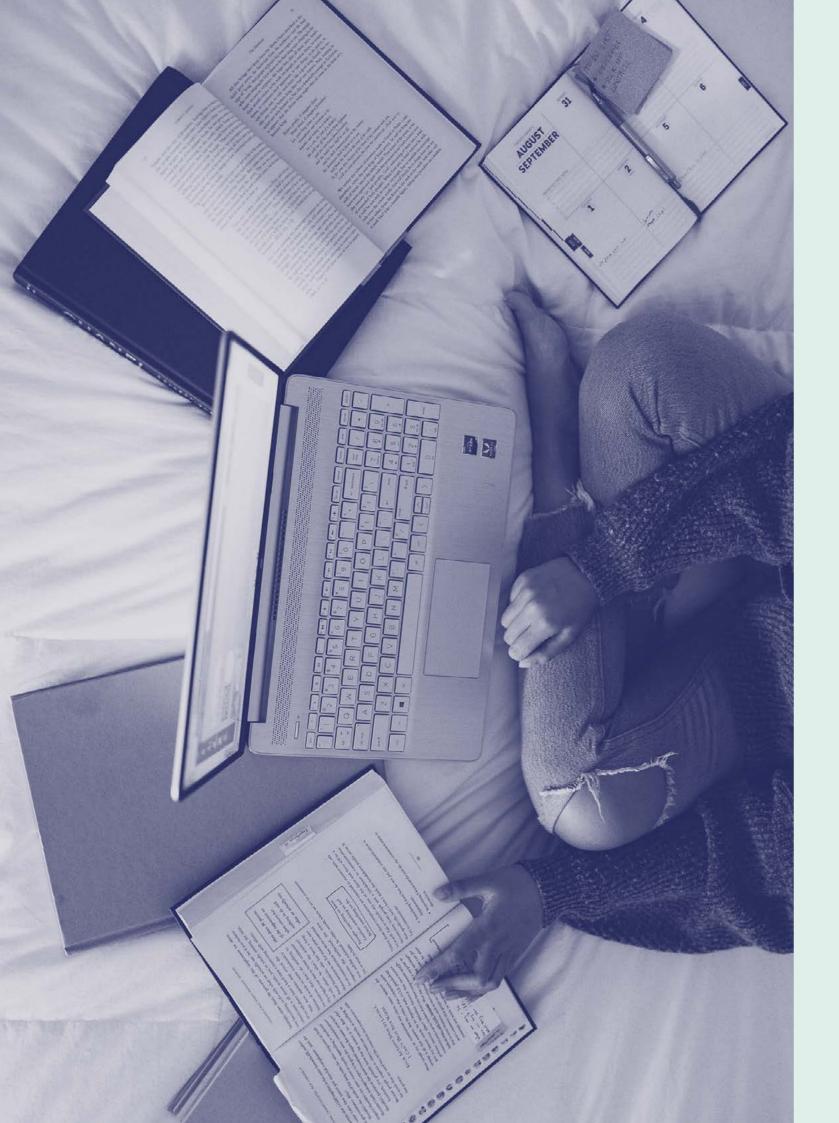
Include serves sustainable and climate-friendly food in connection with events. For example, during our Durham conference the food was provided by Conscious Kitchen, which uses out-of-date ingredients. Include has now developed a form to record the effect in terms of saved  ${\rm CO_2}$  emissions of choosing sustainable food, and from 2023 we will start systematically registering the  ${\rm CO_2}$  footprint of food orders. Here we distinguish between red meat, chicken / pork, salmon, cod, vegetarian and vegan. In the registration form, we provide calculations for different types of meals (lunch service with baguettes and dinner plates) so that it will be easy to calculate the  ${\rm CO_2}$  footprint of meals served compared with serving red meat.

#### **Digital footprint**

We have also started raising awareness of Include's digital footprint. In August 2022, SUM arranged a seminar with Eivind Skogen at Netlife on digital garbage. Include was inspired and in December 2022 arranged a digital Christmas cleaning where we received advice from Eivind Skogen at Netlife and Kristoffer Ring at SUM about specific measures we can take to reduce our digital footprint. Among other things, we learned that global greenhouse gas emissions from cloud storage account for from 2.5%

to 3.7% of the world's total greenhouse gas emissions – thus exceeding emissions from all commercial air traffic (about 2.4%). In the meeting, each individual worked with their files and email accounts to reduce the CO<sub>2</sub> footprint. Among other things, we sorted files and emails by size and deleted large files where possible. We also recorded how much we deleted and how much this amounted to in saved CO<sub>2</sub>. 11 people's work with their digital footprint for an hour resulted in a reduction of 205 kg CO<sub>2</sub>. Here we used a dummy value for the calculation from Stanford Magazine where 1 gigabyte (GB) equals 2 kg of CO<sub>2</sub> per year. We envisage doing such cleanings regularly.







**Education** 



# Education

## **Empowered futures**

Include is a partner in the practice-oriented PhD research school Empowered Futures, which has received a grant from the Research Council of Norway for a period of 8 years starting in 2022. The project is led by NMBU. In addition to Include/UiO, UiB, UiS and UiA are partners. Include is represented on the board and in a working group, which will coordinate the work with the research school. The research school, which is particularly aimed at PhD candidates (but also invites postdoctoral fellows), focuses on the societal implications and social controversies resulting from energy transition in terms of energy production, systems, consumption and planning. This is a working life-oriented research school, which offers a number of different activities and learning arenas in addition to ordinary PhD courses: communication workshops, field visits, internships, etc. We have recruited a number of partners from the public and private sectors, who are also represented on the board. We expect this to be an important learning arena for many PhD candidates. In addition, we want this to be an arena for cooperation and knowledge exchange with non-academic partners.

# Continuing education: New course for practitioners on management for sustainability transformation

In the autumn of 2022, Include developed and introduced an education course on management for sustainability transformation in collaboration with SUM (hosts) and

insam. The course is a continuing education course (master's level) that aims to meet local needs for strengthened transformation competence in meeting the challenges – and opportunities – inherent in the climate and sustainability challenges. It is aimed at professionals and managers in the public, private and voluntary sectors who have, or wish to have, responsibility for local transformation projects or other development work aimed at sustainability transformation. The course consists of three sessions and each session runs over three days. The first gathering was in November 2022, and the last two gatherings will be held in spring 2023. The students submit three reflection notes related to the seminars and the syllabus, and this is the basis for assessment whether or not they pass the course.

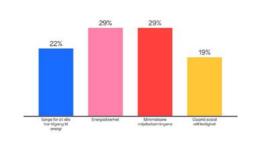
Transformation to a climate- and environment-friendly society will require radical change processes and the development of new working methods, roles and responsibilities in the municipalities. The same applies to the municipality's relations with actors in the local community and between municipalities and other administrative levels. During the study, participants will gain insight into the complex challenges associated with sustainability transformation, what transformation may entail in a local context and possible strategies and measures for local transformation. Researchers from Include are responsible for the teaching, together with other professionals from the research and practice field.

The course plans and learning objectives were designed in collaboration with several municipalities and counties through a project supported by "Klimasats". Include also hosted a Partner Forum in May 2022 with transformation competency as a theme. Input from there was taken into account when designing the course programme.

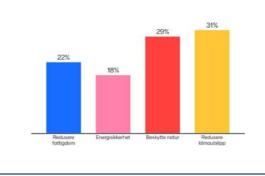


↑ Students at the course on management for sustainability transformation

Forestill deg at du er en beslutningstaker hos energimyndighetene. Hva ville vært dine tre viktigste prioriteringer?



Nå er du en overordnet beslutningstaker: Hvilke tre mål ville du prioritert?



↑ From student tasks at the course on management for sustainability transformation



#### Highlight

#### Continuing education course for practitioners on mangement for sustainability transformation

In 2022, Include, in collaboration with insam and the Centre for Development and the Environment (SUM, UiO), developed and implemented the first part of the course Management for Sustainability Transformation. Developed for practitioners on a master's level, this course aimed to strengthen participants' competence in meeting the challenges and opportunities inherent in sustainability challenges.



Students at the course on mangement for sustainability transformation

# PhD candidates and postdocs

In 2022, Include recruited six new PhD fellows and the centre now has a group of 12 PhD candidates. These are divided into three PhD candidates in WP1, four in WP2, four in WP3 and one in WP4. Of the four PhD fellows in WP2, two are public PhDs (from the Norwegian Environment Agency and the City of Oslo's climate agency) and one is a business PhD (from Ramboll). In order to facilitate academic cooperation, exchange of experience and social interaction among the PhD candidates, Include has established a PhD group led by one of the Include research fellows. The group participated actively during Include's research gathering 24–25 May. The group also participated in the Durham conference and an exclusive PhD workshop on the topic of Socially just and inclusive transitions. Inspired by this gathering, the PhD group, including three participants from Durham, has started to work on a joint perspective article on equitable energy transition.

Ulrikke Wethal (SUM, UiO), who holds one of the postdoc positions in Include, is project manager for "Re-making consumption?" and participates in several other projects associated with WP2 and WP3. Postdoc Anja Amundrud (IPED, UiO) is affiliated with WP4 and leads the project "Democracy, citizenship and sustainable development through digital dialogues".



Norwegian and British PhD fellows at 1 Include's PhD workshop in Duram



## Sigrid Jerpstad

Project title: Providing inclusive public spaces in newly developed urban areas

Affiliation: Ramball Management Consulting AS/

Affiliation: Rambøll Management Consulting AS/ Department of Sociology and Human Geography, UiO

Today, many city areas are undergoing transformation processes from industrial and commercial places to multifunctional neighbourhoods as part of urban sustainability and compact city strategies. Compact urban development and densification lead to high land-use efficiency and can put pressure on existing public spaces and make it difficult to establish new such spaces, especially in a situation where much of the development is happening through individual projects promoted by private developers. In this project, I investigate what constitutes well-functioning and inclusive public spaces in recently established urban residential areas in Oslo, Norway. Through a qualitative case study, I examine the network of public spaces in Kværnerbyen, Nydalen, and Vollebekk. I gather perspectives from municipal actors, developers and architects involved in the planning, construction, and maintenance of the areas, as well as residents. By highlighting experiences and challenges from recently transformed areas, the project provides insight into how decision-makers, planners, private developers, and architects can create well-functioning and good urban spaces in new urban residential areas.



## Karianne K. Taranger

**Project title:** Norwegian households' perceptions of being energy-poor and the accuracy of Norway's policy to reduce the problem.

Affiliation: Fridtjof Nansen Institute

The PhD project aims to understand key causes and experiences of energy poverty, and how it is handled in different Norwegian households. It will also examine the effectiveness of current and alternative policies to reduce the problem. The project will specifically look into:

- How Norwegian energy-poor households experience their situation and what the central causes of energy poverty are.
- What coping mechanisms energy-poor households use.
- What current relevant policy measures to reduce energy poverty exist in Norway, and what effects they have.
- Investigate whether there are innovative policy examples from the European context that may be better suited to combating energy poverty than those applicable in Norway.



### Marieke van der Star

**Project title:** Migration patterns and housing mobility in the green compact city: class-based distribution of urban resources. Affiliation: Department of Sociology and Human Geography, UiO

The project will investigate how, in light of densification processes, housing mobility and migration patterns have changed socially and spatially for residents with different forms of social, cultural, economic and spatial capital and in different household situations in Oslo. In particular, the study will take into account the significance of the local context (spatial capital) and the role it plays in the choice of housing in terms of both actual location and mobility options. This study will then examine the extent to which the sustainable and climate-friendly urban and housing policy leads to a skewed and inequality-creating distribution of resources throughout the housing market using longitudinal localised register data, as well as a survey.



# Julie Høie Nygård

**Project title:** Use of climate budget as a transformation tool in Norwegian municipalities
Affiliation: Business School, UiT

The project aims to study how Norwegian municipalities implement and work with climate budgets as a tool for transformation to a low-emission society. The project focuses on how the climate budget functions as a management tool and how it is adapted and translated into a local context.

The "climate budget" has been presented as a management tool for achieving greenhouse gas emission targets and other adopted climate targets. Since 2017, several municipalities have chosen to use the climate budget as part of their climate strategies and as a concrete tool for reaching the emission targets set by the municipality. Despite increasing use of climate budgets at all levels of governance in Norway, the knowledge base on how it is adopted and implemented is thin. Through document studies, interviews and observations in a selection of municipalities, the project will contribute important knowledge about how the municipalities work with transformation to a low-emission society and how the climate budget as a tool affects such a transformation.



## Neha Singh Gabrielsen

**Project title:** Teaching sustainable development in a municipality – opportunities and challenges for teachers' teaching practices

Affiliation: Department of Education, UiO

The project will examine teachers' teaching practices on sustainable development in a municipality.

Sustainable development is an overarching interdisciplinary topic in the Curriculum for the *Kunnskapsløftet* (LK20), where students will acquire knowledge, develop skills and action competence for a sustainable society. Policies and goals, school organisation, teachers' competence and financial means are factors that influence schools' teaching on sustainable development. At the same time, several actors with different expertise in sustainability gain access to different schools. Such collaborations and structures can be both valuable and present challenges for teachers' teaching about sustainability.

In this project, the work of a learning unit in the case municipality is examined, where collaboration with internal and external actors is mapped. Further in the project, a selection of teachers will be recruited with the purpose of observing their teaching on sustainable development at their respective schools in the municipality. The project is carried out with an ethnographic approach through observations, interviews and conversations and document analysis, as well as design interventions. The purpose of the project is to contribute to increased knowledge and understanding of factors that affect teaching on sustainable development at several levels, as well as shed light on structures within the case municipality that help support this kind of work.



### **Daniel Molin**

**Project title:** From gas stations to charging networks Affiliation: Norwegian Environment Agency, Department of Sociology and Human Geography, UiO

In my project, I analyse the role of the state as a 'system builder' in the creation of a new technological system. Historically, our society is made up of a number of large technological systems of infrastructure and the public sector has played various large, and different active, roles in their creation. Such "infrastructure systems" are of a distributive nature and closely linked to issues of social distribution and geography. Electrification of transport is based on the introduction of a new energy system in the existing transport system. Based on systems theory within STS, I draw on recent theoretical developments of fairness perspectives related to both energy and infrastructure to understand the positioning and role of the state in transforming the transport sector.



## Kirsten Hegsvold

**Project title:** The urban growth agreement scheme – a contribution to the equitable transition to a low-emission society?

Affiliation: Institute of Transport Economics – TØI

The topic of the doctoral project is the urban growth agreement scheme. The four largest urban areas in Norway have entered into urban growth agreements with the state, and the goal of the urban growth agreements is a zerogrowth target for passenger car transport. The increased need for transport will be met by increased use of public transport, cycling and walking. The project mainly studies policy processes, including the role and type of expert knowledge in shaping local climate policy. The project focuses on the degree of coordination between the actors in the network, how policy processes are affected by expert knowledge, whether there are coalitions with different goals and interests, and how this may affect the equitable transition to a low-emission society. The PhD investigates the extent to which procedural justice and distributional justice, if applied, can change the legitimacy of the decisions in the urban growth agreement scheme.



## **Eivind Hjort Matthiasen**

**Project title:** Understanding consumer's capacity to transition to sustainable energy practices: A level playing field or a pipe dream?

Affiliation: Fridtjof Nansen Institute

The project investigates how different classes in Norwegian society are affected by changes introduced for the green shift, either in the form of new policies or the introduction of technological solutions. Through the use of practice theory and the theoretical framework related to energy justice, the project will map how different households use electricity in everyday life and then say something about how differences or similarities in everyday use of electricity can be understood. The work aims to say something about the capacity different classes have for being energy flexible or energy efficient by looking at how everyday life is structured.



### Johannes Volden

**Project title:** Towards a sustainable protein system? Mapping barriers and opportunities for upscaling sustainable protein consumption in Norwegian households. Affiliation: Centre for Development and the Environment, UiO

This PhD project explores alternative proteins and how increased use of these can contribute to sustainable and equitable food consumption in Norwegian households. There is broad agreement that conventional meat production and consumption must be reduced for a sustainable future. Surveys indicate that consumers are more willing now than in the past to try alternatives to meat. However, we don't know enough about how eating habits change in practice. Through the use of different methods, primarily qualitative, the project will investigate how unsustainable proteins in consumers' diets can be changed towards more sustainable alternatives, as part of a larger transition to sustainable food and protein systems. The project has a particular interest in new alternative proteins - such as plant-based meat analogues, edible insects and laboratory-produced meat - and barriers and opportunities for providers of these to challenge current meat consumption in a way that is socially just and environment-friendly. Through insight into the dynamics of current food consumption and how meat and meatfree food are integrated into social practices, the project will seek to contribute to the discussion of a sustainable and equitable food future.



# Oskar Vågerö

**Project title:** Socially just design of energy systems – Social acceptance and energy justice in energy systems modelling

Affiliation: Department of Technology Systems, UiO

The project will investigate how social aspects of energy systems can be integrated into technical-economic modelling of energy and power systems to promote socially just design of such systems. We will use social acceptance of wind power development as a case and draw on the energy justice framework. The work has three milestones:

- Examine existing energy system models, study whether and how different dimensions related to energy justice are included in such and whether energy justice is suitable from a system perspective. Methods: literature review and interdisciplinary workshop.
- Collect data and develop a methodology and framework for quantifying attitudes towards wind power (social acceptance) in different communities in Norway.
- Use the acquired knowledge for simulations in power and energy system models, respectively, to analyse the implications of including social acceptance in the design of Norway's future, zero-emission power and energy system.



## **Ingrid Christensen**

**Project title:** Collaborative governance in the transition to circular economy: A study of circular initiatives in Norwegian municipalities

Affiliation: CICERO

The project will investigate how municipalities can achieve the transition to a circular economy through collaborative management. The project examines how municipalities can cooperate with the business community to achieve increased circularity, while at the same time safeguarding legitimacy in the process and democratic accountability. Through case studies, interviews, document studies and qualitative comparative analysis, the project takes a closer look at the relationship between conditions in collaborative processes and results of cooperation. It will also investigate whether and how municipalities can facilitate collaborative management and what kind of process design of collaborative management can result in successful circular solutions.



# Iris Leikanger

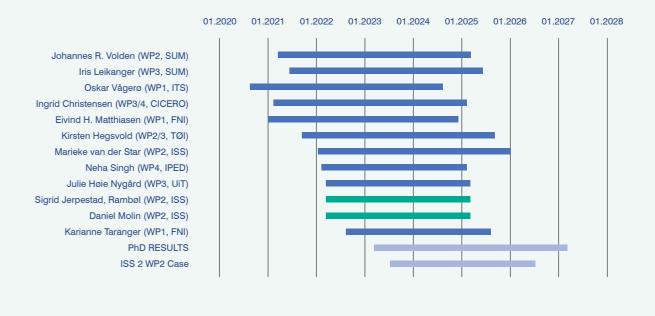
Project title: Co-producing local sustainability? Norwegian municipalities suspended in webs of climate collaboration. Affiliation: Centre for Development and the Environment, UiO

Ambitions for participation, collaboration or co-creation become increasingly important in discussions about how the world should achieve the goal of transforming to a low-carbon society. This is reflected in the climate plans and the social elements of the master municipal plans of many municipalities with a view to collaborate with, and to facilitate collaboration between, actors in the private sector, academia and civil society. In this context it is important to gain a better understanding of how such cross-sectoral collaboration works and how it affects social inclusion and justice in the form of dimensions of justice and inclusion in the collaborative relationships themselves, and how collaboration with different actors affects what types of dimensions of justice and inclusion are included in the municipalities' climate activities.

The goal for this project is to study how collaborative relationships between actors inside and outside municipal organisations contribute to municipalities' work on climate transformation. The project focuses particularly on how roles and responsibilities are distributed among different actors in collaborative projects, and on how collaboration and co-creation affect which topics become central features in the municipalities' transformation strategies.

## Overview of PhD projects in Include and their timeline

Chart: Overview of the PhD projects in Include and how they progress in time



- Regular PhD
- Public and business PhD
- To be recruited

# Summary of Includes master's and summer projects in 2022

A range of master's students are affiliated with Include, and the group meets bi-annually together with senior researchers in Include to discuss the topics, questions and challenges. Below we present summaries of the MA projects that were finalised in 2022.

Every year, UiO:Energy invites researchers at UiO to propose themes for summer projects. In 2022, Include-related summer projects addressed the following themes: wind energy planning regulations across Europe, solar cells in housing associations, energy ageism, and decision-making processes regarding the planning of bus services in the rural peripheries. Summaries from these projects are also listed below.

# Master's and summer projects



Master's thesis: The future of urban spaces in the transformation areas of compact cities: A study of the planning, design and use of urban spaces at Løren in Oslo

By: Milla Bjerkestrand

The objective of ensuring access to good and diverse urban spaces for the city's inhabitants is strong contemporary urban planning. As arenas for the social, political and commercial life of cities, public urban spaces can be understood as essential elements of the physical urban structure. However, the compact urban development strategy has resulted in a scarcity of land that puts pressure on low-utilised areas in the city, including public urban spaces. The market shift in the planning field and the entry of more private actors also set new frameworks for safeguarding the goal of general accessibility to good and varied urban spaces for the city's inhabitants.

The master's thesis focuses on how the planning, design and use of newly developed urban spaces at Løren in Oslo are shaped by these social and urban political tendencies. The study's findings indicate that challenges arise in the effort to meet the goal of compact and economically appropriate urban development without degrading the qualities of urban spaces as experienced from the point of view of some planners and residents. The lack of diversity, flexibility and multifunctionality in urban spaces indicates that it is challenging to translate overall visions into physical planning practices. In light of the increasing number of privately initiated transformation projects in Oslo, the study indicates that there is a need to strengthen stakeholder cooperation in urban development to ensure access to good, public urban spaces for everyone in the compact city.



Master's thesis: Green justice and access to urban green spaces – A spatial quantitative study of accessibility to green spaces by socioeconomic status in Oslo, Norway

By: Marie Elverud Skålnes

Urban green spaces offer many health, social and environmental benefits, and are increasingly linked to sustainability strategies that seek to increase the viability of urban environments. The literature demonstrates that population groups with low socioeconomic status have poorer access to urban green spaces than groups with higher socioeconomic status. By investigating whether this green injustice problem existed in Oslo, Norway, the study aimed to study the relationship between access to urban green spaces and socioeconomic status using geographic information systems (GIS) and quantitative methods. Specifically, the study wanted to find out how access to green spaces is distributed spatially according to socioeconomic status and to what extent green spaces experience potential (over)strain, and whether this is expressed spatially. The green spaces were categorised using a hierarchical typology based on the size of the green areas. The results show that there is a difference between access to green spaces by socioeconomic status, but the difference does not increase in parallel with the hierarchical category of green space. With regard to the burden on green areas, however, the study found that there is a difference in the burden on Oslo's green areas by socioeconomic status measured by green area per capita. The thesis concludes that there is evidence demonstrating existing patterns of inequality, but the findings are inconsistent and this picture must be understood with respect to other additional conditions.



#### Master's thesis: From Rigs to Riches - A Case Study of Oil and Gas Decommissioning in the North Sea through a Just Transitions Framework

By: Peder Østring

This thesis investigates the ways in which the process of oil and gas decommissioning, the dismantling of offshore installations, can be said to be part of a just transition. While the existing literature on oil and gas decommissioning has been found to mainly have a technical focus, this thesis has sought to contribute an assessment of the qualitative aspects of decommissioning, and to map the relational geographies of the spaces produced by this industry. This has also led to an inquiry into how the North Sea fossil industry is internally connected with exploitative relations of beaching and shipbreaking in the Global South. The investigation also finds that unionised labour supports the activity of decommissioning, insofar as it can create decent local jobs and avoid contributing to environmental degradation and the exploitation of workers in the Global South. While the work related to dismantling and recycling offshore installations has been found to have linkages with parts of the oil and gas industry that are the most vulnerable to the transition, both in terms of fixed capital, skills and where this activity takes place, both spatial and temporal aspects of decommissioning make it a key industry for diversification away from oil and gas, with a potential of further functional upgrading into future industries. While decom is showing great potential, there are barriers to its further upscaling, such as the unpredictability of when platforms will finally be removed and recycled. Here the inquiry finds that a planned phase out of oil and gas could enable the rational use of the existing decom yards, while significantly increasing the potential for green jobs in the sector.



#### Master's thesis: A human rights-based approach to environmental protection: The role of human rights in protecting the environment and addressing climate change

By: Eliška Šottová

My thesis research explored the application of a human rights-based approach in the pursuit of environmental protection and urgently needed climate action. The study analysed the role of human rights in achieving environmental protection and climate mitigation with emphasis on social and legal aspects of energy transitions. The goal was to examine the benefits and limitations of the application of a human rights-based approach to environmental issues and climate change, and to further determine its legal and practical impacts. The study focused on the development of human rights arguments through global environmental litigation. It further evaluated the impacts of the application of a human rights-based approach in a legal dispute between the Czech Republic and Poland regarding an environmental harm caused by coal mining activity.



#### Master's thesis: Catching the Sun: A multi-level case analysis of a prosuming community in Norway

By: Ada Eldevik

As a response to ongoing climate change challenges, the world is increasingly transitioning to low-carbon societies with increased use of renewable energy sources. Because Norway's power system primarily consists of the renewable source of hydropower, electrification of different carbon-intensive sectors such as transport, industry, and buildings is seen as an important feature of the energy transition. This leads to increased demand for electricity and pressures existing grid infrastructures. With this as a backdrop, the power system is gradually decentralised through digitalisation and distributed power production, i.e., consumers get the opportunity to simultaneously consume and produce energy - that is, being prosumers. Currently there are several obstacles to households in Norway becoming prosumers, especially for those living in a housing association.

This thesis explores factors that hinder or enable prosuming in housing associations in Norway by investigating an urban development project - Solar City - which has implemented solutions for household solar prosuming and

energy sharing in housing associations. In doing so, the thesis seeks to understand how various actors involved in a niche project creating a "prosuming community" experience barriers and driving forces for creating such a community. Based on nine interviews with entrepreneurial actors, stakeholders from the Norwegian power sector, the municipality in question, and seven households from the community, the aim is to understand how a niche project that takes part in an energy transition may unfold and expand. The thesis also addresses whether development of energy communities contributes to democratisation of energy governance.

The findings suggest that actors from the established electricity regime contribute to processes for change, while simultaneously showing some scepticism for expansion of prosuming communities. Barriers such as policy, support schemes and incumbent infrastructures may impede the possibility of prosuming community expansion. Contrary to the anticipated increase in public/communal governance over energy resources caused by decentralisation, the findings show that private ownership and monopolised governance might develop in spaces in the absence of regulation. Hence, a priori causation between decentralisation and democratisation is in need of reconsideration.





Master's thesis: Young Climate Management

By: Marit Ytterdal and Annika Barlinn Kjelstad

The climate challenges facing the world play an important role for young people. In Norway, young people's involvement and participation in climate issues is considered as essential for implementing necessary societal changes. In 2019, it became mandatory for all municipalities to ensure young people's participation through a youth council or other participation body in matters related to young people. The Youth Council acts as an advisory body that will have the opportunity to speak out on all matters concerning young people. Our case study is included as part of a larger development project in Fjell municipality, with the goal of strengthening the youth council's position and catchment area in the climate work in the municipality. The thesis has the following research question: What latitude for action does the youth council in Fjell municipality have to participate in the municipality's work with climate issues?

The research question is answered through the two research questions:

- 1. How does the administration in Fjell municipality accommodate for the youth council's participation?
- 2. In what ways do the members of the youth council feel that they are involved in participation in the municipality?

The case study is based on a sociocultural perspective and has a qualitative approach. The data material was obtained through semi-structured interviews, observations and strategy documents. Furthermore, the data material was analysed through an inductive thematic analysis using the standpoint triangle. Through analysis and discussion, we have uncovered a number of factors and surroundings that affect the youth council's ability to participate. Our findings show that the national guidelines intended to ensure young participation may limit the youth council's ability to take on the role of leaders. It is pointed out that the council members' ability to participate in and lead participatory processes does not correspond to the facilitation they receive. The youth council's lack of climate commitment, knowledge of case processes and inaccessible language in case documents are regarded as obstacles to the council's participation.

We hope the thesis provides insights into how young people experience the possibility to participate in practice through a youth council.



# Master's thesis: A study of three trade unions' climate actors in the municipal party relationship

By: Ingrid Andrea Rabben Holland

In the face of the global climate crisis, more and more researchers points to trade unions' involvement in climate issues as essential for ensuring fairness and workers' interests in climate change. Using this as a starting point, this study examines three Norwegian trade unions - the Norwegian Union of Municipal and General Employees. the Union of Education Norway and the Norwegian Society of Engineers and Technologists (NITO) - as well as their climate involvement and latitude for action in the municipal party relationship. The study finds that the trade unions' climate strategies can be understood as an institutionally conditioned reworking process based on ecological modernisation, where the unions seek to expand their latitude for action in the local multipartite cooperation through binding cooperation enshrined in the main agreement. The unions' negotiating departments see this approach as a strategic first step in a longer process. This approach encourages a shift in responsibility that creates high expectations for the individual employee representatives. However, the study finds that the employee representatives' climate activities in the local industrial relationships are currently more passive. This can be explained by some union representatives' narrow understandings of their mandate, varying interpretations of the division of responsibility across levels within the trade unions and different understandings of which cases where municipal climate measures fall under the parties' right of co-determination and duty. Furthermore, the study provides evidence of already existing and possible future conflicts of interest between the trade unions' climate interests and the municipal sector's climate measures. Even though the trade unions' climate activities are conditioned by the structures and contexts within which they act, the study argues that the trade unions, through comprehensive integration of their climate strategies, have the opportunity to use their organisational and institutional power to create new latitude for action for their climate interests in the industrial relationship.



# Master's thesis: OBOS Bostart – a residential social Kinder Egg? A qualitative study of the OBOS Bostart purchase model

By: Benedicte Elisabeth Hestnes Andresen

Housing policy in Norway is dominated by the goal that as many people as possible should own their own homes. However, this political consensus has become more challenging to maintain in recent years. For example, the Financial Supervisory Authority of Norway has, in the interest of the sustainability of the economic system, tightened the requirements for obtaining residential mortgage loans on several occasions in recent years. As a result, the purchasing power of young people and vulnerable groups has come under pressure. Several commercial players have responded to the increased establishment challenges by launching innovative housing concepts to shorten the path to this group's housing dream. This study describes one of these housing concepts, namely OBOS Bostart. Through interviews with key real estate players and buyers of OBOS Bostart, this study examines OBOS as a key player in the housing supply. What is the background and strategy of OBOS for the launch, and to what extent does Bostart fulfil its purpose? Using Bo Bengtsson's work. the study concludes that there is a complex picture for the launch of Bostart. On the one hand, Bostart shows that OBOS takes greater social responsibility for solving the establishment challenges with innovation. On the other hand, whether such reputational work can eventually be exchanged for market advantages is being discussed.



# Master's thesis: "And good lives mean that we have good climate and environmental policy" – a discourse analysis of climate policy and measures in Ullensaker and Lillestrøm

By: Anne Sofie Hovden

The compact city is presented as a *cure-all* in sustainable urban development, with consequences that are positive for the environment, public health, land use, biodiversity, protection of topsoil and a city with greater variation in sociodemography (Westerink et al., 2013, pp. 474-475, in Kjærås, 2021, p. 1178). But what consequences does this almost one-sided focus on the compact city as a climate solution have on the communities that exist outside the cities in Norway? In municipalities such as Lillestrøm and Ullensaker, the development of municipal centres in a compact urban direction has led those living outside the city centre to become more dependent on transporting themselves there. In other words, those who live outside the city centre, in rural areas and smaller urban settlements are also affected by change processes in the municipal centres in Lillestrøm and Jessheim (Enger, 2021). How does the municipal administration respond to this? Johanne Heen Enger's report from 2021 shows that the administration has not included this population group to any great extent in the planning processes in the downtown development of these cities. In my report from 2022, which examines the

opinions of elected representatives in the two municipalities about rural people, it turns out that elected representatives allow themselves to be influenced by their own opinions and experiences when making political decisions. Thus, they have the opportunity to request broader participation than the administration thought was relevant and in this way include people in the rural periphery. At the same time, this depends on how the elected representatives view people in the rural periphery.

In this thesis, I examine what preconceptions the elected representatives have about people in the rural periphery and whether they are influenced by what I have identified as a discourse about the compact city as a solution to the climate crisis. The findings show that they have implicit and explicit opinions about people in rural areas, and several have also "accepted" the notion of the compact city as a solution. I have found this by performing a discourse analysis of the interview material from my report from 2022. The implications are that rural people are not included in the planning processes for compact urban development. The notion of the compact city as a solution to the climate crisis also has implications. When the compact city is a non-issue, it becomes difficult to discuss strategies for sustainable land-use planning other than this one, which has consequences for all population groups, not just for rural people.



# Summer project: "It is easier to talk about climate in the city than in the village" – a survey of the opinions of elected officials

By: Anne Sofie Hovden

This project examined elected officials' perceptions of densification and the participation of rural inhabitants in planning processes for climate measures and climate change in Ullensaker and Lillestrøm. These cities have been designated as priority growth areas in the regional plan for land use and transport in Oslo and Akershus. Against this background, both municipalities have drawn up urban development plans to increase the use of environment-friendly forms of transport and reduce car use in the city centre. Residents living on the periphery also use the city centre, and it is therefore interesting to investigate how this group is included and taken care of in the planning processes. The project is based on Johanne Heen Enger's report from 2021, which illustrates that this group of citizens is not included as a group with special interests in participatory processes carried out by municipal administrations in planning processes for climate change, and those socially just outcomes for residents residing rurally are not given particular emphasis in the planning processes. The findings of this project show that the way elected representatives carry out their duties can allow rural residents to be seen and heard in connection with planning processes for climate change. If this finding is seen in the context of Heen Enger's findings, it is the elected representatives, as the final entity in the decisionmaking process, who have the opportunity to request broader participation than what the administration has considered relevant. The project has used a theoretical framework based on the literature on energy justice and social justice in green society transition, where the three principles of distributive justice, recognition justice and procedural justice play a key role.



Summer project: Mapping of wind energy planning regulations across Europe: Report on wind energy planning procedures and regulations in selected European countries & Comparative analysis & Overview of the REPowerEU legislative package

By: Eliška Šottová

My summer research project aimed to collect and review national wind energy regulations and other miscellaneous documentation regarding wind energy permit-granting procedures across selected European countries (Norway, Czech Republic, Ireland, and Germany). The review further identified socio-political factors influencing wind power generation and energy planning and permitting procedures in the countries. Additionally, the report reviewed the shares and targets of wind energy production within the selected countries, evaluated the wind energy planning and permitting processes, and identified their key characteristics. The report also contains an overview of the key changes and impacts relevant to renewable energy development as suggested by the REPowerEU legislative package issued by the European Commission in reaction to the Russian invasion of Ukraine.



Summer project: Solar cells in housing associations in Scandinavia

By: Johanne Elise Nyen

This project has mapped framework conditions for photovoltaic systems in housing associations in Sweden and Denmark. To ensure a socially just transition to a lowemission society, it is necessary to uncover varying opportunities to establish renewable energy production. Previous investigations by Lindberg and Inderberg (INCLUDE) have revealed obstacles in the Norwegian regulation for the establishment of photovoltaic systems in housing associations. They found that the inability to jointly measure electricity consumption prevented housing associations from being able to consume self-produced electricity from photovoltaic systems free of charge in their housing units.

This report examines whether similar obstacles exist in Sweden and Denmark. The regulation of photovoltaic systems is mapped with emphasis on describing taxes, fees and support schemes related to the establishment and operation of photovoltaic systems and opportunities for joint measurement of electricity consumption. The findings show that both Sweden and Denmark allow for joint measurement of housing associations and that this contributes to housing associations being able to consume self-produced electricity free of charge in their housing units. However, obstacles are being identified in both countries that NGOs have been critical of, including requirements for replacement of existing meters and pipe networks.



The summer project: "Who decides where the bus goes?"

By: Florina Baru

This project has conducted a sociological analysis of decision-making processes that maps who decides how the bus service will be organised, how extensive these services are in Lillestrøm and Ullensaker municipalities, and who is heard in these processes. The project employs energy justice as a framework. With a focus on social inclusion in decision-making processes around bus services, and consideration for reduced car use, this project's empirical analysis has aimed to show whether people residing in the district periphery of Lillestrøm and Ullensaker municipalities are given the opportunity to participate in processes related to measures for greener mobility.

The decision-making processes for the bus service in the studied municipalities take place mainly with Viken county and the company Ruter AS as key players, though certain decisions lie with the individual municipalities, such as the location of bus stops and the like. Compared with people living in central areas, people living in the district periphery of these two municipalities have limited influence in decision-making processes that determine how the bus service will be organised. We therefore conclude that the institutions and agencies responsible for including municipalities and their inhabitants in the overall framework for public transport have a weak mechanism for receiving input from people in the rural areas and therefore lack strong instruments for peripheral participation in urban decarbonisation processes.







# Summer project: Energy ageism – is age an exclusion factor in Norway's energy transition?

By: Håkon Tomter, Maria Aspen Neerland and Cecilie Agathe Blomberg Wæringsaasen

The project aimed to further understand elderly people's relationship to their own electricity consumption and technology and how this can be understood in light of a fair and inclusive energy transition. We were also very inspired by how Żuk and Żuk (2020) used the term energy ageism to analyse possible exclusion patterns associated with energy transitions. Through the collection of quantitative and qualitative data, we have investigated topics such as high electricity prices, car use, increasing digitalisation of society and lack of consideration for older users in this process. The quantitative part of the project used datasets that dealt with ownership of electric cars, heat pumps and energy consumption, as well as digital skills among the elderly. The results pointed towards inclusion among the studied elderly people, good handling of ele-

vated electricity prices and good digital skills compared to elderly people in other countries. Through interviews with a sample of elderly people, it emerged on the one hand that they did not feel discriminated against. On the other hand, some reported experiences they had had that nevertheless indicated a certain degree of discrimination – for example, conflicts with electricity companies or telecommunications companies that had not resolved themselves before their children became involved. Many of the informants regarded the rapid digitalisation of society as an exclusion factor, and also had acquaintances who were far worse off than themselves in this area. Energy ageism and the ongoing energy transition can thus be seen in the context of digital knowledge and the use of digital technologies. We therefore concluded that the increasing digitalisation of all aspects of life, including energy use, interaction with energy companies and governments, as well as transport/mobility, may raise the barriers to elderly people's participation as the energy transition unfolds.

# A poem about different kinds of emergencies

Sami reindeer herders at the edge of something the very edge of something, because the ice is melting and the herding might be ending.

Someone sits in Durham at the very edge of living the very edge of living, because the fire's not working and the money might be ending

Electric car drivers at the edge of cities, the very edge of cities because the bus is missing and the tram lines are all rusting.

Someone asks the question at the edge of knowing the very edge of knowing, because the answers must be coming, because the world's door might be closing

Poem by Ian McMillan, performed by Ian together with Luke Carver Goss during Include's International Conference in Durham, 14 September 2022







# International cooperation and spin-off projects



Participants at the Include symposium in Duram 1

## International cooperation

#### In-person contact in the research group across the North Sea

Include's research groups in the UK and Norway met in person in 2022. A group of our PhD students and researchers (13 people) travelled by train to Durham via Utrecht where we had an inspiring meeting with researchers at Utrecht University and Eindhoven University of Technology. Among other things, this will result in a guest researcher from Eindhoven coming to Include/SUM in the spring of 2023.

In Durham we organised Include's international conference Climate Emergency! Energy Crisis! A symposium on responsibility, inclusion and place-based action 14–15 September, which had 36 in-person participants and 29 people participating digitally. In addition to Include's own

contributors from the British and Norwegian side, Janet Stephenson (Otago, NZ, digital) and Katarina Eckerberg (Sweden) participated, both members of Include's Expert Group. The remaining part of the Expert Group participated via Zoom in the early planning of the conference. Other UK contributors to the conference included Ben Anderson (on crises and emergencies), Helen Stockton (energy poverty), Tracy Millmore (electric car venture Durham) and Jamie Cross (on the role of universities in the transition). Food service was provided by Conscious Kitchen, which uses out-of-date ingredients. Musicians lan McMillan and Luke Carver Goss contributed impromptu musical summaries of the academic discussions, and we let excerpts of the improvised poems spice up this annual report.

## Members of the Include Advisory Board



Institute of Sociology, School of Social Sciences, University of Manchester, UK

**Alan Warde** 



Centre for Sustainability, University of Otago, New Zealand.

**Janet Stephenson** 



Faculty of Environmental Studies, York University, Toronto, Canada

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Simin Davoudi School of Architecture, Planning & Landscape, University of Newcastle, UK



Katarina Eckerberg Department of Political Science. Umeå University, Sweden



Renewable energy and public participation in the Nordics

Tanja Winther in video by Nordic Energy Research

# Visits from abroad to Norway, activities in the UK and participation in international contexts

International scholars have participated during Include's activities in Oslo: Mary Greene (Wageningen University) and Paloma Pavel (Fulbright Professor and President for Earth House Center in Oakland, California). Include researchers from Durham co-hosted the panel Commoning-Decommoning Dynamics in Climate and Energy Politics, during the annual conference of the European Association of Social Anthropologists, Queen's University Belfast, in July. Chima Michael Anyadike-Dane's article Whose witnesses: An examination of the potential pitfalls of producing electronic vehicle futures through experimentation was also used as a case study for EPSRC Transports PhD Summer School, Accelerating the Decarbonisation of transport in York (UK) in September.

Include researchers participated in consultations with the International Energy Agency/Norwegian Ministry of Petroleum and Energy and gave keynote talks at the Durham Energy Institute's annual research symposium *Earth*, *Wind* & Fire and during The Launch Event for First Volume on Gender and Energy in New Delhi, India, respectively. An Include researcher gave a keynote address at a symposium organised by the Housing Finance Corporation in England, where she discussed the importance of including people renting their homes in measures to decarbonise social housing. Based on this, she will write an article for Housing Finance International in the UK. Include researchers were interviewed in connection with two films from Nordic Energy Research. The research group has also lectured in MA courses at Durham University, held keynote lectures during the Fair Energy Transition Webinar in the Netherlands/Zoom, and participated in an energy panel during the annual conference of the Oslo SDG Initiative.

In light of the Ukraine war and high electricity prices in Europe, several Include researchers have been interviewed and participated in the public debate on energy security in Norway, Poland and internationally.

# Spin-off: new applications/initiatives originating from Include

Since Include started in 2020, 20 project applications originating from the centre have received funding (four of which were awarded funding in 2022). In addition, Include researchers have received funding for nine projects with themes related to Include and with which Include collaborates (three of which were awarded funding in 2022).

# New applications/spin-off projects in 2022 emerging from Include

• PowerPoor (funded by RCN) – FNI led an application for an energy poverty project, which was granted in 2022. The project originates from Include and involves several other Include researchers in the project group, including from Durham University in the UK. The project will start in January 2023. The research project aims to address the major knowledge gaps that exist about energy poverty in Norway. This is a widely studied phenomenon in other countries, but has recently come higher on the agenda in Norway. The project will map energy poverty in Norway, investigate underlying causes of the phenomenon and explore different solutions and



↑ The project PowerPoor will study energy poverty in Norway

- policy instruments to combat energy poverty. It will also look at energy poverty as a possible barrier to implementing the green shift. The project will start in January 2023, and will be led by the Fridtjof Nansen Institute, with SUM, CICERO, Durham University and Statistics Norway as partners.
- Upcirc (submitted to RCN) The Centre for Development and the Environment (SUM) at UiO led an application in 2022 originating from Include, in which Include researchers from SUM, CICERO and insam participated, together with the University of Genova (Switzerland) and the Western Norway University of Applied Sciences. The application was not granted, but received a good assessment (6).
- Consume (submitted to RCN) Include researchers at SUM led an application originating from Include, with participants from the Environmental Policy Group (Wageningen University, NL) and the Institute of Regional Sustainable Development at the Vietnam Academy of Social Sciences (Vietnam). The application was not granted, but received a good assessment (6).
- RESULTS Research for Energy and SUstainabiLity Transformations is a new thematic research group (TRG) that was granted funding from UiO:Energy in 2022. The project addresses the question of how to generate transformative change that is equitable and leads to sustainability. RESULTS is part of Include, led by SUM/UiO, and will contribute to developing greater convergence and coherence when it comes to research and various initiatives to promote the transition to sustainability.

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- CO-CREATION (SAMSKAPET): Development of a digital platform for co-creation – Include researchers and communication staff applied for and were granted support from UiO to develop a platform for co-creation.
   SAMSKAPET, as this infrastructure is called, is a new category of digital infrastructure for educational, social science and interdisciplinary research, which will support different phases and methods of co-creation.
- Innovation for local renewable energy production in Oslo – Energy producing infrastructure – The project is led by Include partner Solar Energy Cluster, and received funding from the Innovation Programme Oslo in 2022. The project's goal is to strengthen the innovation system in Oslo for solar energy and local renewable energy production by establishing an interdisciplinary collaboration across business areas.
- Application to the Metropolitan Network on sustainable consumption Include researchers submitted an application for a call for proposals from the Metropolitan Network on sustainable, circular and reduced consumption with a focus on the view of the population and the role of municipalities as facilitators. The application was not granted.
- Application to the Norwegian Directorate of Health on healthy and sustainable food. Not granted.
- Method manual, qualitative method. An Include researcher developed a method manual for Bane NOR (2022) that describes how qualitative methods can be used to assess how different infrastructure investments affect land development and traffic volumes.

#### Related projects of relevance to Include

WINDACCEPT (funded by Horizon) – Postdoc application originating from Include, led by the Department of Technological Systems at UiO. A revised application was submitted to Horizon Europe's Marie Skłodowska-Curie Actions (MSCA) funding programme and awarded funding in 2022. The project is called A methodology for integrating community acceptance for wind energy into energy system modelling, and will be carried out by Dr Paola Velasco-Herrejón and supervised by Include researchers. Current energy system modelling (ESM)

- primarily uses technical and economic parameters, while social factors, such as local responses to new wind power installations, are largely neglected. The use of the current ESM is therefore in danger of calculating and proposing solutions that are not feasible. WINDACCEPT will also integrate social variables, which are assumed to affect local acceptance in ESM by using wind energy projects in Norway as a case.
- HyValue (FME, funded by RCN) Include researchers at the Fridtjof Nansen Institute (FNI) participated in an application to RCN for a technical FME related to Include, with partners from Germany, the UK, the USA, Australia and the Netherlands. The application was awarded in 2021 and was started in 2022. (The project was not included in Include's 2021 Annual Report, so it is included now.)
- Network for diversity, inclusion and equality in energy research EDI+ (funded by the Engineering and Physical Sciences Research Council EPSRC) Durham University led an application relevant to Include, with partner Northumbria University from the UK. The application was granted. The University of Durham leads the network that aims to achieve a greater degree of diversity, inclusion and equality in energy research. The network will recruit, train and support researchers working in energy research so that they have the opportunity to drive improvements in their own institutions. The network will offer meeting places for members through workshops, seminars and various events.

#### Ongoing participation in international projects

#### Fusilli - participation in Horizon 2020 - project

The City of Oslo participates in the Horizon 2020 project Fusilli – Fostering the urban food system transformation through innovative living labs implementation, in which 12 European cities participate. As part of this, the City of Oslo is working with its canteen in Karvesvingen to put in place more sustainable and healthy food in canteens. Include follows the measures to document possible effects, attitudes towards sustainable and healthy food as well as barriers.







Communication

# Communication

#### A taste of Include's communication activities in 2022

The volume of communication activities is high, and both researchers and partners contribute. Here are some examples from our activities in 2022.

#### **Energy: The energy situation in 2022**

Include researchers and partners made roughly 20 contributions to Norwegian media and international channels on the energy situation. In op-eds and interviews in Aftenposten, Dagens Næringsliv, Teknisk Ukeblad and NRK Ytring, among others, they gave accounts of the social consequences, especially for vulnerable groups, of the many measures that have been up for debate over the past year. The input referred to access to power, environmental considerations and fair distribution. Include researchers also contributed to knowledge and dissemination about gender equality challenges related to energy. The research group started a new project on energy poverty in Norway and defined the term in Store Norske Leksikon, a national major encyclopaedia. Include-partner The Consumer Council has been very active in the media and engaged in advocacy work vis-á-vis the regulatory authorities.

#### **Energy: Films for the Nordic Council of Ministers**

An Include researcher was interviewed by a film crew hired by the Nordic Council of Ministers for a series of films called "Nordic Energy Research". Among other things, the input was used in a film about decentralised energy systems and energy solutions outside the power grid, published in October 2022. In the interview, the researcher argued that equality and inclusion must come first, and then technology and markets must be adapted to these fundamental considerations.



#### Changing places: Apollon bulletin about mass landfills

An Include researcher was interviewed in Apollon about mass landfills from construction projects. He pointed out that infrastructure projects and compact urban development create a great need for places to dump gravel, soil and rock masses. Landowners and contractors earn a lot from receiving the masses, which together amount to many millions of tons a year. However, the removal of masses leads to large CO emissions, and the mass landfills have negative consequences for the local population, plants, animals and the environment in the areas where they are placed.

#### Changing places: Input to a public meeting organised by Bjerke district committee

An Include researcher has been engaged by Miljøforum and Sletteløkka Vel to investigate what effects and consequences it will have to reduce speed and road capacity in Trondheimsveien in Oslo, from Sinsenkrysset to Grorud, from four to two fields. This is part of a major discussion about reallocation of road and car land to other means of transport and other uses and to make the outer urban areas more climate-friendly, attractive, vibrant and inclusive. The results were presented to Bjerke district committee and at a large public meeting at Linderud organised by Miljøforum and Sletteløkka Vel.

#### Changing places: Speech at open public meeting about the development of the Kjeller area

An Include researcher gave a speech at an open public meeting about the development of the Kjeller area in Lillestrøm municipality. The topic of the meeting was to discuss how to preserve the history of the airport at Kjeller and at the same time achieve sustainable urban development. The focus of the presentation was how the overarching driving forces in terms of urbanisation, urban development and planning affect the situation in Lillestrøm in terms of the possibilities for achieving energy-friendly, sustainable and inclusive town and urban development.

#### Consumption, attitudes and emission inequality

In an article on forskning.no, two Include researchers wrote about the large climate footprint of Norwegians' consumption and what the research says about how we can change it. They showed how difficult it can be for each of us to reduce or change our personal consumption. One important reason is that most of our consumption is socially conditioned. Our consumption contributes to defining how we participate in society. If we are to achieve consumption changes, we must think holistically, adapt and create good alternatives, the authors write. In addition, our partner FIVH has contributed to events organised by The Grandparents Action with presentations on attitudes towards climate and the environment as well as on Norway's contribution to global resource and climate justice.

#### Local climate work: Weak climate plans in many municipalities

In collaboration with research institutions in several parts of the country, Include has assessed the climate plans of 13 Norwegian municipalities. The researchers concluded that only three of the plans qualified for receiving an approved grade. The findings are presented in a scientific article, and the team also received media coverage through a case on forskning.no. Include's participant in the study states in this case that she is not surprised that only a minority of municipalities are investing in climate measures. She believes this is due to the low priority given to support local climate policy at the state level and that there has been little focus on the municipalities as a climate actor until a few years ago.



Forskere vurderte klimaplanene til tretten norske kommuner. Bare tre av dem fikk god karakter

l Hurdal sentrum skal husene få gress og solceller på taket. Mens i Rendalen har de ingen planer for å



#### Local climate work: Local transition work in the municipalities

The Norwegian Environment Agency and KS arranged and contributed with presentations about municipalities' work on transformation in separate seminars, podcasts and at county climate gatherings. Examples include a webinar on climate- and area-efficient transport, a podcast about fair transformation, and a presentation to Innlandet county about the circular economy and green shift. Include researchers have also contributed with presentations, interviews and conversations about work on local transformation. For example, an Include researcher participated in EKKO on NRK P2 and talked about climate budgets in municipalities. Furthermore, Hurdal municipality gave a speech to the Ministry of Local Government and Rural Development (KDD) about its downtown plan. Asker municipality gave many presentations about its reuse centre at various conferences and at Klimasats forum.

#### **Local climate work: Publications** on participation and urban sprawl

Lillestrøm municipality issued its own publications in 2022. A publication on public participation summarised the municipality's citizen survey, and a second publication on urban sprawl was published in connection with its municipal planning work.

#### **Education: Op-ed of the importance** of education for climate change

In an op-ed in Klassekampen in April, Include researchers criticised the latest report from the UN's Intergovernmental Panel on Climate Change for ignoring the important role of education in a necessary transition. The op-ed points out that the UN report mentions education, but that it has too narrow a perspective on the role of education. Climate change is challenging us in our ability as people and as a society to learn, to orient ourselves, to influence and collaborate in a complex and rapidly changing world. This means that education becomes a key to transition.

#### Own events

#### Partner forums and lunch seminars

In 2021, we introduced the Include Partner Forum as a series of seminars or workshops that are arranged together with our partners with topics of interest to them and researchers in Include. In 2022, we had three partner forums on the topics of regional planning in Viken county, urban agriculture and transformation competence, respectively. Several of our partners have returned afterwards and emphasised that these forums are useful for them in terms of input to their own work. For example, Viken county reported the following back to us:

"Include and Viken county arranged a Partner Forum together on 27 April 2022. The theme was regional planning and socially just transition to a low-emission society, and there were interesting introductions from different perspectives. The group work was set up with different stations where the groups circulated and discussed the challenges, knowledge, what resources we can play on and what we need to stop doing in different areas... We learned a useful method for moving forward on some issues we are facing. We also employed the method used by Include to discuss various issues related to the regional planning work in council area meetings. It gives participants the opportunity to get through several complex issues in an effective way."

We also organised three lunch seminars in Include in 2022, including one with the theme "What do we know about bioenergy and mass landfills from a social science point of view?". The other two seminars focused on climate and cultural capital as well as fair electricity prices and support schemes.

#### Include Partner Forums and INCLUDE Lunch seminars in 2022

Month	Type of seminar and theme	Keynote lunch seminar / participants partner forum
January	INCLUDE Lunch: What do we know about bioenergy and landfills from a social science standpoint	ISS (UiO), CICERO
April	Partner Forum: Regional planning and socially just transition to a low-emission society	CICERO, ISS (UIO), Viken county
April	INCLUDE Lunch: Climate and cultural capital: class differences in opinions and interest in climate and environmental issues	ISS(UiO), SUM (UiO)
April	Partner Forum: Local food and urban agriculture as a transformation strategy	UiT, SUM (UiO), Tromsø municipality, Troms and Finnmark county, Viken county
May	Partner Forum: Transformation competence	IPED (UiO), insam, SUM (UiO), Asker municipality, Trefokus Lillestrøm municipality, Oslo municipality
November	Can climate policy become just?	Kalle Moene, UiO Maren Holthe Hedne, UiO Katinka Holtsmark, UiO/TØI

#### Include's international research conference 2022 - Climate Emergency! Climate Crisis! A symposium on responsibility, inclusion and place-based action

This year we organised an international research conference, which was held in Durham, England, in September. Include's research partner Durham University had the main responsibility for the event in collaboration with SUM at UiO. The conference is discussed in more detail in Chapter 7.



#### Researcher workshop

The pandemic in 2020 and 2021 provided limited opportunities for the researchers in Include to meet in person for academic exchange and collaboration. In May 2022, we therefore invited all researchers to a two-day gathering where Include's research was presented and discussed. Day two of the gathering was devoted to discussion of new research opportunities, communication and how collaboration in Include works. There was great academic engagement among both researchers and PhD candidates, and we received a lot of good input for further work. The collection was spiced up with singing choirs, guitar playing, a mini-concert and poetry reading.

Gathering of Include researchers

Include annual report 2022 Include annual report 2022 Communication Communication



## Events with external parties

#### Include – external events in 2022

Month	Conference/Seminar	Organisers / Co-organisers
January	Biofuels and renewable energy	FME Bio4Fuels
April	The energy crisis – more than a price crisis	FME NTRANS
Spring 2022	3 academic protests	SUM (UiO)
May	Green Practice	Kristiansand municipality, Agder county, KS
August	Arendalsuka: own event with the theme "A fair energy transition"	FNI, SUM (UiO), Viken county
September	The energy situation in Europe – what now?	FME NTRANS
September	Breakfast seminar food, agriculture and climate	CICERO with the PLATON and VOM projects
December	Hal Wilhite lecture: Can we control the billionaires who are wrecking the planet	SUM (UiO)

#### Include at Arendalsuka: A fair energy transition

Include participated with its own event at Arendalsuka in 2022, in addition to several of our partners having events with Include-relevant themes. "A fair energy transition" was the title of Include's evening meeting, which brought together a packed café venue. Two Include researchers presented their work on energy poverty and Norwegians' attitudes towards electricity. They were followed up with a strong appeal from one of the centre's county partners for a stronger focus on municipal and county climate and energy efforts. After the introductions, there was a debate on politicians between the State Secretary in the Ministry of Petroleum and Energy and two members of the Energy and Environment Committee in the Norwegian Parliament (Storting).



Panel debate at Arendalsuka with Andreas Bjelland Eriksen (Ap), Bård Ludvig Thorheim (H) and Ole Andre Myhrvold (Sp). Moderator: Ruth Astrid L. Sæter



Small scale greenhouse ↑

#### **Green Practice**

The conference Green Practice 22 was organised by Kristiansand municipality, Agder county, KS and Include. The conference took place at the same time as the Environmental Week in Kristiansand. Green Practice is an arena for everyone who wants to strengthen local and regional transformation efforts. At the conference in May 2022, the municipal sector, business and academia were represented. Include researchers contributed with speeches on sustainable transformation and funding packages, equitable transition, sharing as a transformation strategy and urban logistics. Several of our partners also had introductions and participated in discussions,

including Aasmund Bunkholt from Trefokus who talked about wood innovation, Sølvi Tellefsen from Lillestrøm municipality about the library as a sustainability arena and Kjetil Bjørklund (KS) with reflections on the role of the municipal sector in transformation work. Insam facilitated the conference.

#### Breakfast seminar on food, agriculture and climate

Include, together with CICERO and the projects PLATON and VOM, invited to a breakfast seminar on 27 September on food, agriculture and climate. Here, Include researchers gave presentations on local food as a transformation strategy.

Include annual report 2022 Include annual report 2022 Communication Communication



Academic protest at the University of Oslo. Photo: Martin Toft

#### **Academia protests**

In the spring of 2022, students and employees at SUM at UiO, in collaboration with Include, organised three academic protests at Frederikkeplassen at Blindern in Oslo. The protests focused on politicians' inadequate handling of the climate and nature crisis. The message was that the gap between what science says and what politicians do is too great to keep quiet about. The climate and nature crisis requires fundamental, transformative changes that require innovative thinking to provide opportunities for positive social development. Academia is in a unique position to show how we can rethink biological and cultural diversity, new consumption and production patterns and social development. Include researchers contributed with opening remarks.

# Events and meetings in collaboration with other FMEs

Include, in collaboration with FME Bio4Fuels, hosted a webinar in January 2022 on "Public Acceptance of BioFuels and Renewable Energy". FME NTRANS initiated a series of workshops on the energy crisis in Europe, where Include researchers participated in two contexts. Include researchers also contributed to NTRANS's work with an FME policy brief on the energy situation, which will be published in 2023. Include researchers have had several meetings with FME ZEN in 2022, with a view to initiating a joint project in 2023.

#### Internal communication

Every year, Include's management conducts individual meetings by phone with our partners where we talk about their involvement in Include and get their assessment of Include's work. We also take the opportunity to get input to the progress report and annual report and raise issues related to financial reporting. Our experience is that this form of regular communication contributes to good involvement of partners. We can quickly address their feedback, and we also get valuable input on what impact the work with Include has on their organisations.

In the autumn of 2022, the Include management also held individual, in-person meetings with each of our research partners/units at UiO and their researchers participating in Include. (This year, we spoke with UiT in Tromsø on Zoom). The purpose of this round was to strengthen contact with and between researchers, clarify expectations and raise professional and practical questions. There was a lot of good input for further work. The meetings also served to anchor and refine routines in connection with project work and reporting.

## "Include Reports" and "Results and recommendations"

Include has established two written types of publications for dissemination of the research. In 2021, we launched the series "Results and recommendations". It presents brief summaries of results from Include's research, aimed at decision-makers. Includes report series, which was launched in 2022, has a somewhat longer format and is aimed at our partners and other relevant decision-makers and societal actors. The topics, results and recommendations are presented in a popular science format. We published ten "Results and recommendations" in 2022 and five Include Reports. These products are only published in Norwegian because they have a Norwegian target audience.



#### Published "Results and recommendations" and "Include Reports" 2022 (Only available in Norwegian)

Theme	Series	Number
Addressing fairness issues in urban growth agreements	Results and recommendations	01/2022
Gender perspectives on fair transition	Results and recommendations	02/2022
New grid tariff model for Norwegian households	Results and recommendations	03/2022
Bioenergy from the forest in the green transition in Norway  – balance between production and other societal interests	Results and recommendations	04/2022
Opportunities for solar energy in housing companies in Norway, Denmark and Sweden	Results and recommendations	05/2022
Energy ageism – is age an exclusion factor in Norway's energy transition?	Results and recommendations	06/2022
Gone with the wind? Change in Norwegian municipalities' attitudes to wind power	Results and recommendations	07/2022
Sustainable land use in municipalities with a low population	Results and recommendations	08/2022
It is easier to talk about climate in the city than in the countryside  – a survey of elected officials' perceptions	Results and recommendations	09/2022
Attractive and sustainable local communities – Green zones	Results and recommendations	10/2022
Local initiatives for sustainable consumption: Asker municipality	Report	1/2022
Local multipartite cooperation for sustainability in the municipal sector.  A memorandum on the role of employee representatives in municipal climate and environmental work	Report	2/2022
It is easier to preserve capercaille mating game in small scale production	Report	3/2022
Municipalities as drivers of short-travelled cycles. A study on local food in Tromsø municipality	Report	4/2022
Local energy opportunities. Report from a case study of energy initiatives at Utsira	Report	5/2022





# Innovation and impact of Include

### 09 Chapter

# Innovation and impact of Include



We have processed and approved the progress report for 2022. It gives a thorough picture of the activity in 2022. It is very positive that you write so comprehensively about the collaboration with the user partners and how they use knowledge from Include to develop their activities. It is not always easy to describe this to the social sciences, but you do it very effectively. Excellent that you are so active with new applications and that you are so successful.

Tone Ibenholt, Research Council of Norway, 16 December 2022

After three years in operation, the research in Include begins to leave its mark, both among our participating partners and in our surroundings. As a social science research centre, it is important to have a conscious attitude to the concept of innovation. The reporting structure of our main funder, the Research Council of Norway, is characterised by a language that is primarily developed to measure the effects of technical FMEs, for example, counting new patents, which are less relevant in social research. We therefore attach importance to justifying how we work with and count innovations.

An important purpose of Include's close collaboration with partners is for practice-oriented research to lead to innovation (see Chapter 4 for a description of partner-driven projects, which are aimed directly at practice, influence and innovation).

We consider innovation as new or improved solutions or knowledge that can either be used at the micro level or at the macro level. With reference to the CenSES Innovation Study 2019, we believe that the knowledge can lead to direct proposals for specific changes or provide an indirect background understanding that allows for changes. The new or improved solutions/knowledge can be used both at the micro level (for a unit or individual) or at the macro level (requiring changes across multiple stakeholders, preferably between private, public, civil sector and general population). This definition allows for capturing the often more indirect and/or systemic innovations that may emerge from social science research. We use this definition when reporting on innovation performance indicators, hence impact or traces of Include. The table shows an overview of innovations in Include 2022. Further below, we comment on some of the innovations by reproducing the organisations' own statements.

#### Reported Include innovations in 2022

#### **Number of innovations Include 2022**

Introduction of new/improved methods/models/technology for value creation

Organisations/institutions (companies) outside the project that we have influenced

- 1 Lede Nett AS Collaboration with Include researchers influenced the design of a new grid tariff model
- 2 Ministry of Local Government and Regional Development (KDD) Commissioned report from Include on opportunities and barriers to climate change in rural areas
- 3 Education International The Union of Education Norway has included perspectives on equitable transition in its input to the El's international report on education for sustainable development
- 4 Storting One of the proposals put forward by the Conservative Storting group on solar energy, which won a majority in the Norwegian parliament (Storting), is in line with recommendations from Include's research project on solar energy in housing cooperatives

Organisations/institutions in the project that we have had an "indirect" impact on (impact on processes, etc.)

- 5 The Consumer Council Include's work on energy poverty has been crucial in the strategy and advocacy work vis-à-vis the regulatory authority in light of the power crisis
- 6 Asker municipality Include has participated actively in Asker's project group for reuse and contributed to increased understanding in the project group of needs and tension lines between different actors in the municipality
- 7 Norwegian Environment Agency Research from Include on energy justice used as a knowledge base for discussions on support schemes for transformation (Klimasats and Enova)
- 8 Tromsø municipality Includes research on urban agriculture and local food systems is used as a knowledge base for Tromsø's work on revising the municipality's agricultural plan
- 9 Viken county Includes methodology for group work has been used in Viken's regional planning work

Organisations/institutions in the project on which we have had a "direct" impact (specific strategy documents/activities, etc.)

University of Oslo – Elements of Include's environmental and travel strategy have been taken up by the Centre for Development and the Environment, Department of Sociology and Human Geography, and in UiO's new travel policy and travel agency agreement. Include also contributes actively to UiO's sustainability work, including to their Climate Committee 2050 and action plan for climate and sustainability

#### Reported Include innovations in 2022

#### Number of innovations Include 2022

New players, activities, products

New projects in existing organisations (partner-driven projects, etc.)

- 11 Tromsø municipality On the initiative of the municipality of Tromsø, Include has carried out a project on urban agriculture in Tromsø
- 12 KS In collaboration with Include, KS has led a pilot project on the role of small-scale agriculture in climate and environmental change, with plans for further projects
- 13 Lillestrøm municipality In collaboration with Include, Lillestrøm municipality is leading a project on the use of gaming technology in education for sustainability
- 14 Asker municipality In collaboration with Include, Asker municipality leads a project on how children and young people can be involved in climate work in Asker

New processes that the project has contributed to

- 15 Methodology for group work further developed by Include and adopted by Viken county
- 16 Green multipartite cooperation in the municipal sector development of employee representatives' possible role in climate and environmental work

# Lede Nett AS (1): Increased focus on customer perspectives in work on new grid tariffs for electricity

"The benefit we as a grid company have had from our collaboration with the ForTa/Include researchers on the new grid tariff is, firstly, that the emphasis on the customer perspective led to a 'more careful' design of the tariff than originally intended. The researchers shared findings from interviews and emphasised things we were partly aware of, for example that not all customers have the opportunity to be flexible and that many may be stressed by having to adapt to large price differences between day and night. ... The need for simplification was to a large extent decisive for the model that has now been introduced, with steps for capacity and energy components respectively. The capacity component in the new tariff does most of the 'job' of motivating for a levelling off of consumption. This component is graded

and is determined on the basis of an average of the customer's three highest measured outlets, which means that households pay based on what they actually use of capacity and energy. Another example concerned the energy component of the tariff, where the researchers gave input that it may be useful for customers to be able to use electricity cheaper on weekends."

Ivan Schytte, Lede Nett AS

# Ministry of Local Government and Regional Development (2): Increased internal awareness of climate change in rural areas

In the autumn of 2021, Include researchers were commissioned by the Ministry of Local Government and Regional Development (KDD) to write a report that shed light on opportunities and barriers to climate change transformation in rural areas. In 2022, KDD described the significance of the report for their work:





"After the report was prepared, the political leadership of the Ministry of Local Government was informed of the findings of the report in a memorandum. This memorandum was also sent to the civil service of the Ministry of Climate and Environment with the report as an appendix. Overall, we can say that the memo has probably given a professional awareness at least in our department. This allows us to make better choices when it comes to priorities."

# The Union of Education Norway (3): Fair transition perspectives incorporated into international work on the role of trade unions in sustainable education

The Union of Education Norway is part of the global association Education International (EI). In 2022, they have contributed to a report from EI entitled "Educators on a Heating Planet. Shaping Education Unions' Vision for a Just Transition." EI has, in addition to education for sustainable development, equitable transition high on the agenda. The Union of Education Norway has also contributed to and actively disseminated the results of an EI project on the role of trade unions: "Education for social change: The role of educational trade unions in addressing sustainable environmental development." Here, the researchers have looked at how education contributes to social change and the green transition.

# Parliament (4): Resolution on solar energy adopted – followed Includes recommendations

Researchers in Include have investigated opportunities and barriers to developing solar energy in housing cooperatives in Norway. Based on this, they published a note (Results and recommendations 05/2022) pointing out various obstacles to building solar energy in housing cooperatives, including the inability to share electricity between residents in a block and between several buildings. Experience from Denmark and Sweden has shown that the possibility of joint metering in housing cooperatives is an important prerequisite for housing cooperatives to be able to install solar energy. Furthermore, the inability to distribute power between several buildings affects the profitability of projects. The memo attracted media attention with two articles in Teknisk Ukeblad, and in October 2022 the Conservative Storting group presented several proposals related to solar power, which won a majority in the Storting. One of the proposals was particularly in line with Include's recommendations:

"The Storting asks the government to consider a temporary or time-limited exemption from the licence obligation to establish low-voltage power lines to neighbouring buildings for the sale of power."

This proposal seeks to make it easier to share power between several buildings in the same neighbourhood and to expand an earlier proposal put forward by the Energy Regulatory Authority (RME) and the Tax Administration



(which limits the sharing of electricity to one building) to include several buildings in a neighbourhood or housing association. The decision means that the government will look into the matter, but the proposals that were adopted were not binding.

#### The Consumer Council (5): Increased professional weight on energy vulnerability through the collaboration in Include

The Consumer Council points out that Include's work has affected how they work with energy vulnerability:

"With rising electricity prices, energy poverty has become an increasingly acute social problem in Norway. We at the Consumer Council have gained new perspectives and valuable knowledge about energy vulnerability through our participation in Include and their network of researchers working with electricity. This has influenced our own strategy with regard to how we ourselves work with the topic. The Consumer Council has prepared a memorandum on vulnerable electricity customers and worked actively to ensure that the regulatory authority has proposed reducing the mark-up on electricity to consumers who receive mandatory power supply from the grid owner. Over time, participation in Include has been crucial for us in making us confident that our recommendations are professionally founded."

Andreas Strandskog, Consumer Council

#### Asker municipality's (6) understanding of the needs and tensions in connection with consumption and reuse

In the Include project Re-making consumption?, Asker municipality emphasises the following:

"Since the autumn of 2021, project manager Ulrikke Wethal has participated in the project group working on the establishment of a reuse centre and a digital platform for reuse in Asker municipality. The project group has held weekly meetings and Wethal has participated actively in the discussions and shared insights from the research literature and her own data collection with households, reuse and industry actors. This knowledge base has been an important contribution to concept development and increased understanding of the needs and tensions between different actors (including the population) in Asker municipality."

#### Norwegian Environment Agency (7): Increased awareness of fair transformation among Norwegian municipalities

The Norwegian Environment Agency emphasises that fair transformation is increasingly in the municipalities' consciousness as part of climate change efforts. The Norwegian Environment Agency and Enova both have support schemes for climate measures, and the Climate Initiative emphasises the reduction of greenhouse gas emissions and the transformation to a low-emission society. But the Norwegian Environment Agency also encourages municipalities to report other positive effects. For example, several municipalities state in applications to Klimasats that circular economy measures can provide work training to those who are going back into working life. Other positive effects may be improved health through land-use and transport measures, where, for example, municipalities have received Klimasats funding for e-bike initiatives. In meetings and communication about these support schemes and fair transformation, research from Include has been used as a knowledge base.

#### Tromsø municipality (8, 11): Relevance of local food sysmtes and revision of agricultural plan

Include researchers' work on local food systems in and around cities as a climate and environmental transformation strategy has provided important input to Tromsø municipality's work on agriculture and the agricultural plan. "Local food systems" was established as an Include project led by the municipality of Tromsø and resulted in an Include Report (no. 4/2022). The municipality wishes to include the report for political orientation in the municipality. Representatives from the section for Climate, Environment and Agriculture in Tromsø municipality state:

"The study on local food systems, which was conducted by the Include researchers from UiT and SUM in close collaboration with our department, has given us important input to our work towards agriculture and specifically to the revision of our agricultural plan. The report from the study helps us to see the relevance of local food in a sustainability and climate change perspective. It also gives us a factual basis in further discussions, and sheds light on how we can take a role and collaborate better across the municipal organisation to promote local food systems. We want to bring the report to the political orientation of the municipality and that the researchers behind it present it."

#### New methodology for group work

Theme	Round 1: Challenge	Round 2: Knowledge	Round 3: Resources we can play on	Round 4: What do we need to do/stop doing
Equitable access to the transport system	Group 1	Group 4	Group 3	Group 2
Equitable distribution of the negative consequences of place development	Group 2	Group 1	Group 4	Group 3
Citizen involvement in the development of the land-use and transport system	Group 3	Group 2	Group 1	Group 4
Necessary adaptations when climate measures are to be introduced in smaller places	Group 4	Group 3	Group 2	Group 1

#### Viken county (9, 15): New methodology for group work adopted

Viken county co-hosted the Include Partner Forum in April, where a new method for group discussions was successfully tested. Include has further developed a methodology for group work based on a basic structure developed by researchers from NIBR and OsloMet. The method allows groups to circulate to different moderators, where they listen to summaries of the previous group's conclusions, in the following sequence: challenges, existing knowledge, resource needs to achieve fairer access to the system and what should one start with/stop doing to achieve equitable access to the system? Viken has adopted this method in its own business. An Include researcher is also a member of an external reference group for the preparation of regional planning strategy for Viken.

The idea behind the group work is to cover many areas of society within a given session, such as a seminar, while at the same time structuring the work and providing material to work from afterwards. The methodology is built on a 4x4 structure. The four questions in the horizontal row in the figure below are the same from time to time, while the social fields to be covered in the horizontal row on the left will depend on what one is interested in working on in the session. The figure is taken from the group work that was arranged at Include's Partner Forum on 27 April 2022.

The group work method, using the example of the topic "Equitable access to the transport system":

- 1. The moderator of this topic welcomes Group 1 for discussion on challenges related to equitable access to the transportation system. The moderator writes down bullet points and suggests towards the end of the block (e.g. 10 minutes) a set of points to be included.
- 2. The moderator welcomes Group 4. briefly summarises what has been said about challenges and asks group 2 to discuss what kind of knowledge one has on this topic. Again, the moderator suggests a set of points to be taken further.
- 3. The moderator briefly summarises what groups 1 and 4 have said and asks group 3 to focus on resources that can be used to achieve fairer access to the transportation system.
- 4. Finally, Group 2 is briefly presented with what the other three groups have said on the subject. This group is asked to focus on what needs to start/stop doing to achieve fairer access to the transport system.

Finally, the moderator summarises briefly in plenary what the four groups have said about challenges, knowledge, resources and what needs to start/end to achieve fairer access to the transport system. The same is done for the other three themes. The notes from the four moderators are cleaned up and sent as bullet points to the participants in the group work.



↑ Changing trains in Brussels on the way home from the Include symposium in Durham

# Include's environmental strategy is affecting the University of Oslo – UiO (10)

Include's environmental strategy received a lot of attention in 2022. The management at UiO has used the strategy as inspiration for their work, and at the Department of Sociology and Human Geography (ISS) it has influenced the design of environmental strategy and travel policy. Employees at the Section for Purchasing Central at UiO have said that they will use Include's environmental strategy as well as other input from Include when setting environmental requirements in connection with the tender round for the selection of UiO's upcoming travel company. The Section for Procurement stated: "We will focus on the environment both in the revision of travel policy, but also in the tender, and here I see that your travel policy and environmental strategy will be used as an inspiration." Include also wrote an experience document based on the booking and implementation of group train travel to Durham, where we pointed out the need to receive offers for train travel as quickly as air travel, that the layout of the itinerary be feasible and presented in a clear format, that indirect CO<sub>o</sub> emissions be included, both for train travel and air travel, and that the travel company must be able to offer competitive prices at hotels in Europe, including low-cost hotels.

Furthermore, Include's researchers affiliated with the Faculty of Educational Sciences (UV) has contributed to UV's new sustainability strategy. The strategy explicitly raises the question of how education can increase students' readiness to act in the development of sustainable societies. The strategy sees sustainability in the context of changes in conditions for learning and teaching, increasing digitalisation and information diversity, and changes in knowledge, values and norms. UV's strategy is based on a broad concept of sustainability and points to sustainability as a complex of problems that is important for several educational science research fields, fields of practice and for society's opportunities for transition and innovation, and not least for the study programmes that educate students who also want to meet the challenges of their professional lives. Change is closely linked to knowledge development, innovation and the use of knowledge. Include also contributes actively to UiO's sustainability work, including via the Climate Committee 2050 and the Action Plan for Climate and Sustainability.

#### New, other projects led by the partners (12, 13, 14)

The researchers and partners collaborated closely in a number of projects led by partners: The role of small-scale agriculture in the climate and environmental transformation (KS)

and *The Game of Climate* (Lillestrøm municipality) as well as *Young Climate Leadership* (Asker municipality), which has contributed to several innovations to avoid participation in name only and to develop a model that promotes citizenship for children and young people in Asker.

# Green industrial relations in the municipal sector (16): The possible role of local union representatives in climate and environmental work

In close cooperation between several trade unions, KS and Include researchers, work is underway to study and develop the role of local union representatives in municipal climate and environmental work and how environmental, climate and sustainability work can be integrated into the local industrial cooperation in the municipalities. A report on this pioneering work has been published (Include Report 2/2022, in Norwegian). The project "Green industrial relations in the municipal sector" has a number of partners who are closely involved in the work on the role of employee representatives in municipal climate and environmental work (Union of Education Norway, Norwegian Union of Municipal and General Employees, NITO and KS)

# Other innovations and signs of Include

#### **Impact on TreFokus**

TreFokus mentions in many contexts that they are a partner in Include. This is part of their overall sustainability work. TreFokus states:

"In recent years, we have tried to become a more 'complete player' in relation to sustainable urban development. Not only be concerned with sustainable construction, but also with everything that happens 'between the buildings'. In this context, Include is a great arena and a good power gathering."

#### Viken

Viken county was a partner in the Climate Barometer 2022 and was able to record five separate questions for the survey, which was conducted by Kantar. The questions from Viken were prepared in collaboration with Include researchers in connection with the Climate Barometer 2021, and two of these were continued in 2022.

#### SAMSKAPET - Digital platform for co-creation

Communication staff at Include (by SUM and CICERO) are, together with the head of WP4, in the process of creating an online solution to present findings from the centre that can form the basis for an exchange of experience, sharing and co-creation. On the basis of the work on such a *platform for co-creation*, UiO sought and granted funding for research infrastructure. SAMSKAPET, as this infrastructure is called, is a new category of digital infrastructure for educational, social science and interdisciplinary research. It will support different phases and methods of co-creation.

Co-creation is based on different sectors, such as public, private and voluntary organisations, developing solutions through long-term and equal cooperative relationships. Here, UiO has a central role and ambition to strengthen dialogue with the outside world and works to ensure that knowledge is put to use. The application originates from the point in UiO's Strategy 2030 that UiO shall contribute to sustainable social development and green transformation.

Co-creation has until now not been supported by own research infrastructure in the HUMSAM field, and the application therefore involves pioneering work in the field. Co-creation is particularly relevant to wicked problems we face as a society. In the application, emphasis is placed on the work on climate and energy transition, democratic renewal, and pervasive school development related to education for sustainable development. These are topics that span very widely, and therefore provide valuable and different input on how such an infrastructure should be designed.

# Work with innovation through publishing and networks

An Include researcher in Durham is co-editor of the newly established journal "Nordic Journal of Innovation in the Public Sector", which had its first publication in November 2022. The PhD group in Include is working on a joint, conceptual work on social justice and inclusion. Include recruited two public PhDs and one Industrial PhD in 2022, which is expected to contribute to innovation. We will continue our work in the partner-oriented project as well as the series of Include Partner Forums to ensure further innovation.





**Appendices** 



#### APPENDIX A

# Ongoing projects 2022

Ongoing projects in 2022. Master's and summer projects are excluded.



## Energisystems in transition (WP1)

Project	Overall objective	Project leader and partners
Flexeffect: Flexible electricity use: Enabling and constraining factors	To understand how different household groups use and interpret available information about time-of-use pricing and consumption levels and their attitudes towards capacity pricing.	Hanne Sæle SINTEF Energy Research, CICERO, Viken, NVE, Istad Nett, Forbrukerrådet, Energi Norge
Flexible electricity use: Lessons from pilot projects	To explore how different instruments aimed at improving electricity demand flexibility affect different household groups' scheduling of electricity use, energy practices, and motivations for energy saving.	Karina Standal, CICERO, SUM (UiO), Otago University, Viken, NVE, Istad Nett, Forbrukerrådet, Energi Norge
Flexeffect: The municipality as energy pioneer	To explain why a municipality has become an energy pioneer, identify barriers in this process and clarify how the barriers have been managed.	Tor Håkon Jackson Inderberg, FNI, CICERO, SUM (UiO), Kongsberg Kommunale Eiendom
Flexeffect: Flexible energy use in Norway and Sweden: A comparison	To explore how national regulations for electricity demand flexibility (EDF) have developed in Norway and Sweden and explain the political feasibility of adopting different instruments for EDF.	Tor Håkon Jackson Inderberg, FNI, Lund University, NVE, Viken, Istad Nett, Forbrukerrådet
Understanding Energy Poverty in Norway (PowerPoor)	Strengthen the understanding of energy poverty, and generate knowledge about the causes, consequences and mitigating measures to decrease energy poverty in Norway.	Tor Håkon Jackson Inderberg, FNI, SSB, SUM, CICERO, Durham Univer- sity, Forbrukerrådet Klimastiftelsen, NBBL, Viken FK
Energy price support and the climate transition differences	Contribute knowledge about: the more detailed design of the electricity support schemes in Norway, Sweden and Denmark; the background for the countries' choices with respect to the design of the schemes; and to what extent and how differences in the design of the schemes affect the ability to reach both vulnerable groups and realize climate change goals.	Jørgen Wettestad, FNI, STV (UiO), NVE, Viken FK, Troms Kraft, Istad nett, Forbrukerrådet, Solenergiklyngen

Project	Overall objective	Project leader and partners
Ministerial steering of work with climate and emissions reduction in public agencies	Contribute knowledge about the extent to which and how work on climate and emission reductions is included in the ministries' management of the state's directorates; and investigate what explains the variation both within the ministries and between the ministries with respect to the emphasis on climate work and emission reductions in allocations and instructions to underlying directorates.	Lars Gulbrandsen, FNI. Brukerpartnere ønskes.
Windaccept	Develop a new methodology to integrate living conditions and other sociotechnical parameters in energy system- modeling. This could help define socially acceptable renewable energy scenarios in Norway while providing a better understanding of how Europe can achieve decarbonisation.	Paola Velasco Herrejón, UiO
Clean energy package (CEP)	To map Norwegian policymakers' and stake- holders' perspectives on the CEP and its implementation and identify the impact of CEP on Norway's renewable energy and community energy sector.	Kacper Szulecki
Transitioning energy practices in the household (PhD)	To research the capacity of practitioners to transition to energy-relevant practices, but also accentuate the need to include dimensions of inequality more purposefully when studying energy practices.	Eivind Hjort Matthisen, FNI
Social factors and energy modelling (PhD)	To explore and improve the representation of social factors in energy systems modelling as an attempt to move the scientific field of energy systems modelling beyond the dominating techno-economic view.	Oskar Vågerö, ITS (UiO)
Energy poverty (PhD)	Understand key causes, experiences and management of energy poverty in Norwegian households, and the effect of current and alternative policies to reduce the problem.	Karianne Krohn Taranger, FNI

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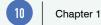




# Energy spaces and flows(WP2)

Project	Overall objective	Project leader and partners
Post-epidemic urban planning	To assess the short-, mid- and long-term implications for urban land use and transport in the face of the 2020 COVID-19 pandemic.	Lars Böcker, TØI, ISS (UiO), A-lab, Viken FK
Urban sprawl	To enhance public authorities' abilities to steer land use development in climate friendly directions at the same time of being socially just.	Aud Tennøy, TØI, Lillestrøm, A-lab, Helsedirektoratet, Ullensaker, Viken FK
Electric vehicles and solar prosumption	To explore the spatial distribution of electric vehicle (EV) ownership and PV prosumption, their interconnections and their correlations with socio-economic status and other population statistics.	Lars Böcker, TØI, FNI, Istad Nett, Viken FK, FIVH, Solenergiklyngen
Truly public spaces	To study existing urban public and semi-public spaces focussing on how these spaces frame social practices, are socially inclusive and contribute to place identity; to explore the potential for developing socially inclusive public spaces.	Per Gunnar Røe, ISS (UiO), Bærum, Lillestrøm, A-lab, Oslo, Viken FK, Trefokus
Circular solutions for construction minerals	Study governing principles and established practices around mass management to contribute to more circular solutions.	Bjørnar Sæther, ISS (UiO), IOR (UiO), Civitas, Hurdal, TreFokus, Viken FK
Inclusive and sustainable planning (Vestre Billingstad)	To explore ongoing planning practices as part of the development project 'Vestre Billingstad', focussing on sustainable and socially inclusive strategies and projects.	Asker, ISS (UiO), IPED (UiO), SUM (UiO), insam, eiendomsutviklere, mobilitetsaktører, Future Built
Everyday COVID-19	To produce new insights into how ruptures in socio-material systems can work to fundamentally alter or reinforce routing consumption practices—and for whom.	Arve Hansen, SUM (UiO), Helsedirektoratet, TØI

Project	Overall objective	Project leader and partners
Sustainability and consumption	To understand the struggles and negotiations households engage in, as well as the social, political, material and institutional aspects working as barriers and enablers of sustainable and equitable consumption.	Arve Hansen, SUM (UiO), FIVH, Spire
Sustainable proteins (PhD)	To map barriers and opportunities for upscaling sustainable protein consumption in Norwegian households.	Johannes Volden, SUM (UiO)
Providing inclusive public spaces in newly developed urban areas (PhD)	Investigate what constitutes well-functioning and good urban spaces in newly developed urban areas.	Sigrid Jerpstad, Rambøll Management Consulting/ISS (UIO)
The state as a system- builder in electrification of transport (PhD)	Examine the role of the state as a system-builder in the transition to electric transport infrastructure and possible differences between Norway and Sweden.	Daniel Molin, Miljødirektoratet/ISS (UiO)
Residential mobility in the green compact city (PhD)	Examine how residential mobility and migration patterns have changed socially and spatially for residents with different forms of capital and in different household situations.	Marieke van den Star, ISS (UiO)



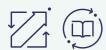


## Municipalities as change agents (WP3)

Project	Overall objective	Project leader and partners
Climate budgeting	To investigate the role of climate budgeting with respect to sustainability transformation in municipalities.	Mette Talseth Solnørdal, UiT, SUM (UiO), Civitas, Oslo, Tromsø, Miljø- direktoratet, Troms og Finnmark FK, KS, Solenergiklyngen, Viken FK, Lillestrøm, Bærum, Ullensaker
Greening industrial relations in Norwegian municipalities	To explore the potential for 'greening' industrial relations in the municipal sector.	David Jordhus-Lier, ISS (UiO), KS, Utdanningsforbundet
Re-making consumption	To explore how municipality-led sustainability initiatives are understood and used by inhabitants seeking to understand potential social, economic or institutional barriers to the upscaling of collaborative consumption.	Ulrikke Wethal, SUM (UiO), Oslo, Asker, Spire, Miljødirektoratet, FIVH, Viken FK
Local food	To investigate the potential for local circuits with respect to sustainability transformation.	Hege Westskog, SUM (UiO), CICERO, UiT, insam, KS, Tromsø, Hurdal, Oslo, Spire, A-lab
Peripheric public participation	To contribute new knowledge about the urban- rural tensions within municipalities in initialisation and implementation of decarbonisation meas- ures in municipalities.	Sigrid Stokstad, Institutt for offentlig rett (UiO), SUM (UiO), IPED (UiO), ISS (UiO) Ullensaker, Lillestrøm, Asker, A-lab, Viken FK
Sustainable land use in low-populated municipalities	To understand what characterises national- authority ambitions for climate-friendly land use in smaller municipalities and how these munici- palities experience these ambitions; to explore how smaller municipalities work to address climate-friendly land use and how this may affect social justice.	Anders Tønnesen, CICERO, SUM (UiO), Troms og Finnmark FK, Viken FK

Project	Overall objective	Project leader and partners
Household survey	To investigate households' attitudes towards local climate- and environmental policies.	Marianne Aasen, CICERO, SUM (UiO) Miljødirektoratet, Helsedirektoratet, Asker, Bærum, FIVH, Oslo
Small-scale agriculture and forestry	Explore the lifestyles of small-scale farmers and foresters where parts of their livelihoods are obtained from local forest and soil resources and whether and in what way these types of activities contribute to sustainability transformation at the local level.	Kjetil Bjørklund, KS, SUM (UiO), CICERO Spire, Viken FK, Trefokus
Just tax	Investigate Norway's national budget and tax policy with respect to effects for firms, households and investment in green technology.	Katinka Holstmark, UiO, TØI
Circular economy (PhD)	To understand the role of municipalities in contributing to inclusive solutions for the circular economy through collaborative governance	Ingrid Christiansen, CICERO
Urban contractual agreements and just transitions (PhD)	To explore the policy processes of urban contractual agreements with respect to a just transition to a low-emission society	Kirsten Hegsvold, TØI
Co-producing local sustainability (PhD)	To study how co-production networks between municipalities and societal actors contribute to municipalities' work with climate transformation	Iris Leikanger, SUM (UiO)
Climate budgeting (PhD)	Study how Norwegian municipalities implement and work with climate budgeting as a tool in transforming to a low-emission society.	Julie Høie Nygård, UiT







## Interventions (WP4) and Learning across borders (WP5)

Project	Overall objective	Project leader and partners
Young climate leadership	To address sustainable development of places in Asker through youth climate leadership	Ole Smørdal, IPED (UiO), Asker.
Education for climate transitions	To investigate conditions and opportunities for UiO to offer new types of courses on transformative competence and leadership	Ole Smørdal, IPED (UiO), ISS (UiO), Asker, EngageLab, KS
Hovinbyen: Co-constructing and social inclusion in urban development. Cases and interventions in Hovinbyen in Oslo	To contribute to transformation to a low emission society through participation especially from the youth and through development of practices of co-creation.	Ole Smørdal, IPED (UiO), CICERO, ISS (UiO), Spire, Pådriv, Oslo, Trefokus
Climate games	To develop a collaboration on development of climate games aimed at the municipal sector and with an objective to develop e-democracy specifically for children and the youth	Sølvi Tellefsen, Lillestrøm, IPED (UiO), insam, CICERO
Democracy, citizenship and sustainable development through digital dialogues (PostDoc)	Create new arenas for engaging children and the youth in work on transformation to a low-emission society in order to build new knowledge for the classroom community, but also in a broader societal context.	Anja Amundrud, IPED (UiO), Lillestrøm, Asker, Insam, Pådriv, Spire
Teaching and learning practices for sustainability in schools in a Norwegian (PhD)	Investigate how a learning unit in the municipality works to develop teaching practices for sustainable development by involving different actors and different schools in the municipality.	Neha Singh Gabrielsen, IPED (UiO), Asker, FIVH
Durham climate action plan	To explore how DCC's Climate Action Plan does/should address social inclusion	Chima Michael Anyadike-Danes Durham University, Durham County Council

# Completed projects

Completed projects. Master's and summer projects are excluded.

WP	Completed	Title	Project leader
WP1	2021	Gender energy transition	Karina Standal, CICERO karina.standal@cicero.oslo.no
WP1	2021	Bioenergy potential	Asbjørn Torvanger, CICERO asbjorn.torvanger@cicero.oslo.nc
WP1	2022	Winds of change	Per Ove Eikeland, FNI (per-ove.eikeland@fni.no)
WP1	2022	Collective and tenant prosumers	Marie Byskov Lindberg, FNI (mblindberg@fni.no)
WP1	2022	Local energy opportunities	Mikkel Vindegg (CICERO) mikkel.vindegg@cicero.oslo.no
WP1	2022	Green Industry Geographies	Mari Lie Larsen, FNI (mllarsen@fni.no)
WP2	2021	Mass landfills: A pilot study	Bjørnar Sæther, ISS bjornar.sather@sosgeo.uio.no
WP2	2022	Smart mobility suburbs	Per Gunnar Røe, ISS (p.g.roe@sosgeo.uio.no)
WP2	2022	Attractive living	Rolf Jacobsen, Gaia Arkitekter (rolf@gaiaarkitekter.no)
WP3	2021	Climate transformation in rural municipalities	Hege Westskog, SUM hege.westskog@sum.uio.no
WP3	2021	Transformative community development	Reidunn Mygland, insam reidunn@insam.no
WP3	2022	Urban Growth Agreements	Anders Tønnesen, CICERO anders.tonnesen@cicero.oslo.no
WP3	2022	Network for local circuits	Kjetil Bjørklund kjetil.bjorklund@ks.no
WP3/ WP4	2021	Developing competence for transformative action	Nina Solberg, insam nina@insam.no
WP3/ WP4	2021	Addressing the Existential Threats of Climate Change: foundations for a transformative learning agenda	Jennifer Joy West, CICERO j.j.west@cicero.oslo.no
NP5	2022	Corona strategies	Claire Dungey, Durham University (claire.e.dungey@durham.ac.uk)
WP6	2020	Travel registration	Iris Leikanger, SUM iris.leikanger@sum.uio.no



## APPENDIX B

# Personnel

#### **Key Researchers**

Rey nesearchers				
Name	Position	Institution	Gender	Research area
Tanja Winther	Professor, Head of Include	SUM, UiO	F	WP1
Hege Westskog	Senior Researcher, FME Coordinator	SUM, UiO	F	WP3
Arve Hansen	Researcher	SUM, UiO	М	WP2
Øyvind Sundet	Researcher	SUM, UiO	М	WP1
Kacper Szulecki	Researcher	ISV, UiO	М	WP1
Per Gunnar Røe	Professor	ISS, UiO	М	WP2
Bjørnar Sæther	Professor	ISS, UiO	М	WP2
Magne Flemmen	Professor	ISS, UiO	М	WP1
David Jordhus-Lier	Professor	ISS, UiO	М	WP3
Karen O'Brien	Professor	ISS, UiO	F	WP2
Ole Smørdal	Researcher	IPED, UiO	М	WP4
Anja Amundrud	Postdoc	IPED, UiO	F	WP4
Sigrid Stokstad	Researcher	IOR, UiO	F	WP3
Marianne Zeyringer	Associate Professor	ITS, UiO	F	WP1
Lene Foss	Professor	UiT	F	WP3
Mette Solnørdal	Researcher	UiT	F	WP3
Elin Anita Nilsen	Associate Professor	UiT	F	WP3
Camilla Houeland	Researcher	FAFO	F	WP3
Tor Håkon Jackson Inderberg	Research Professor	FNI	М	WP1
Jørgen Wettestad	Research Professor	FNI	М	WP1
Lars H. Gulbrandsen	Research Professor	FNI	М	WP1

# Key Researchers

Name	Position	Institution	Gender	Research area
Ole Kristian Fauchald	Research Professor	FNI	М	WP1
Jon Birger Skjærseth	Research Professor	FNI	М	WP1
Marie Byskov Lindberg	Senior Researcher	FNI	F	WP1
Per Ove Eikeland	Senior Researcher	FNI	М	WP1
Kendra Dupuy	Senior Researcher	FNI	F	WP1
Mari Lie Larsen	Research Fellow	FNI	F	WP1
Torbjørg Jevnaker	Research Fellow	FNI	F	WP1
Anders Tønnessen	Senior Researcher	CICERO	М	WP3
Monica Guillen-Royo	Senior Researcher	CICERO	F	WP3
Tom Erik Julsrud	Research director	CICERO	М	WP1
Nina Holmelin	Senior Researcher	CICERO	F	WP3
Marianne Aasen	Senior Researcher	CICERO	F	WP1
Mikkel Vindegg	Senior Researcher	CICERO	М	WP1
Karina Standal	Senior Researcher	CICERO	F	WP1
Asbjørn Torvanger	Senior Researcher	CICERO	М	WP1
Lars Böcker	Senior Researcher	TØI	М	WP2
Aud Tennøy	Research director	TØI	F	WP2
Petter Christiansen	Senior Researcher	TØI	М	WP3
Tanu Priya Uteng	Chief Researcher Officer	TØI	F	WP2
Katinka Holtsmark	Senior Researcher	TØI/UiO	F	WP3
Susanne Normann	Researcher	Nordlandsforskning	F	WP



## Key Researchers

Name	Position	Institution	Gender	Research area
Lars Wang	Advisor, CEO	insam	М	WP3
Nina Solberg	Advisor	insam	F	WP3
Bård Sødal Grasbekk	Advisor	insam	М	WP3
Kristiane Brudevoll	Advisor	insam	F	WP3
Rolf Jacobsen	Consultant	Gaia Arkitekter	М	WP2
Eivind Selvig	Consultant	Civitas	М	WP2
Simone Abram	Professor	Durham University	F	WP5
Andres Luque Ayala	Associate Professor	Durham University	М	WP5
Gavin Bridge	Professor	Durham University	М	WP5
Chima Michael Anyadike-Danes	Researcher	Durham University	М	WP5
Kirsten Jenkins	Lecturer	Edinburgh University	F	WP5

## Postdoctoral researchers with financial support from the Centre budget

Name	Nationality	Period	Gender	Topic
Ulrikke Bryn Wethal	Norwegian	2019-24	F	WP2, WP3

# PhD students with financial support from the Centre budget

Name	Nationality	Period	Gender	Topic
Oskar Vågerö	Swedish	2020-24	М	WP1
Ingrid Christensen	Norwegian	2021-24	F	WP3
Eivind Hjort Matthiasen	Norwegian	2021-24	M	WP1
Johannes Rudfjord Volden	Norwegian	2021-24	M	WP2
Julie Høie Nygård	Norwegian	2022-26	F	WP3
Sigrid Jerpstad	Norwegian	2022-25	F	WP2
Marieke van der Star	Dutch	2022-26	F	WP2
Neha Singh	Norwegian	2022-25	F	WP4
Kirsten Hegsvold	Norwegian	2021-24	F	WP3
Daniel Molin	Swedish	2022-25	M	WP2
Karianne Taranger	Norwegian	2022-25	F	WP1
Iris Leikanger	Norwegian	2021-24	F	WP3



## Communication and research support staff (vit.ass)

Name	Affiliation	Gender	Topic
Erik Berge	SUM, UiO	М	WP6
Astrid Arnslett	CICERO	F	WP6
Bente Bakken	UiO:Energi	F	WP6
Anna Valberg	FNI	F	WP6
Sindre Hoff	SUM, UiO	М	WP2, WP3
Thea Sandnes	SUM, UiO	F	WP3
Selma Schwendsen Lindgren	FNI	F	WP1
Karolina Zieniewicz	ISS, UiO	F	WP1
Neha Singh	IPED, UiO	F	WP4
Karianne Krohn Taranger	FNI	F	WP1
Fitwi Wolday	TØI	М	WP2, WP3

## Administrative and finance staff

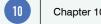
Name	Affiliation	Gender
Marius Bergh	SUM, UiO	М
Terje Røysum	SUM, UiO	М
Kristoffer Ring	SUM, UiO	М
Knut Kjæreng	SUM, UiO	М
Gitte Egenberg	SUM, UiO	F
Galina Loginova	ISS, UiO	F
Synneva Laastad	ISS, UiO	F
Trine Labahå	IPED, UiO	F
Kari-Anne Ulfsnes	IPED, UiO	F
Ilze Gehe	ISV, UiO	F
Malin Dahlberg Løvereide	ISV, UiO	F

## Administrative and finance staff (cont.)

Name	Affiliation	Gender
Øyvind Henden	IOR, UiO	М
Elisabeth Wenger-Hagene	IOR, UiO	F
Suzanne Tærud Day	CICERO	F
Sigrid Rian Song	CICERO	F
Claes Lykke Ragner	FNI	М
Gøril Heimland	UiT	F
Christian Hansen	UiT	М
Lisbeth Kjelstrup	TØI	F
Espen Refstie	TØI	М

### Include board members and substitute board members

Name	Affiliation	Gender	Role
Vebjørn Bakken	UiO	M	Board member
Marianne E. Lien	UiO	F	Substitute
Kristin Halvorsen	CICERO	F	Board member
Frode Longva	CICERO	М	Substitute
Iver Neumann	FNI	М	Board member
Lars Gulbrandsen	FNI	М	Substitute
Matteo Chiesa	UiT	М	Board member
Edel O. Elvevoll	UiT	F	Substitute
Randi Julie Haldorsen	Viken	F	Board member
Tyra Marie Risnes	Viken	F	Substitute
Sofie Ringdal	Spire	F	Board member
Cari Anna King	Spire	F	Substitute
Aasmund Bunkholt	TreFOkus	М	Board member



## Include board members and substitute board members (cont.)

Name	Affiliation	Gender	Role
Sandra Skretting	TreFouks	F	Substitute
Kjetil Bjørklund	KS	М	Board member
Ernst Kloosterman	Tromsø kommune	М	Board member
Anja Johnsen	Tromsø kommune	F	Substitute

## Include international advisory board members

## Summer projects (completed in 2022)

Name	Affiliation	Gender	Topic	
Johanne Nyen	FNI	F	WP1	
Anne Sofie Hovden	IOR	F	WP3	
Florina Baru	IOR	F	WP3	
Cecilie Agathe Blomberg Wæringsaasen	SV, UiO	F	WP1	
Maria Aspen Neerland	SV, UiO	F	WP1	
Håkon Tomter	ECON	М	WP1	

## Master degrees (completed in 2022)

Name	Gender	Topic
Marit Ytterdal	F	WP4
Annika Barlinn Kjelstad	F	WP4
Peder Ressem Østring	М	WP1
Milla Bjerkestrand*	F	WP2
Marie Elverud Skålnes	F	WP2
Ingrid Andrea Rabben Holland	F	WP3
Ada Weisser-Svendsen Eldevik	F	WP1
Eliška Šottová	F	WP1
Benedicte Elisabeth Hestnes Andresen	F	WP2
Yngve Bråten	М	WP2

## Representatives from user partner institutions

Name	Affiliation	Gender	
Julie Sjøwall Oftedal	A-lab	F	
Magnus Berg Jørgensen	A-lab	М	
Pål Erik Olsen	A-lab	М	
Geir Haaversen	A-lab	М	
Anniken Reinertsen	A-lab	F	
Olle Jönsson	A-lab	М	
Geir Haaversen	A-lab	М	
Bjørn Nordby	Asker kommune	М	
Anja Østerli	Asker kommune	F	
Gyrid Mangersnes	Asker kommune	F	
Mari Ugland Grønstøl	Asker kommune	F	
Elin Schønberg Røe	Asker kommune	F	



## Representatives from user partner institutions

Name	Affiliation	Gender
IVAIIIC		Genuel
Cato Steinsvåg	Asker kommune	F
Bente Støa	Asker kommune	F
Kenneth Dahlgren	Aspelin Ramm	M
Anne Bertine Fagerheim	Bærum kommune	F
Unni Larsen	Bærum kommune	F
Christoffer Klyve	FIVH	М
Astrid Bjerke	FIVH	F
Elisabeth Riise Jenssen	FIVH	F
Hanne Gustavsen	FIVH	F
Siv Elin Ånestad	FIVH	F
Inger Lise Blyverket	Forbrukerrådet	F
Andreas Strandskog	Forbrukerrådet	М
Janne Strandrud	Helsedirektoratet	F
Kadri Tammur	Helsedirektoratet	F
Heidi Fadum	Helsedirektoratet	F
Henriette Rognlien	Hurdal kommune	F
Gerhard Eidså	Istad Nett AS	М
Hallvard Benum	Kongsberg kommunale eiendom (KKE)	М
Kjetil Bjørklund	KS	М
Jørn Inge Dørum	KS	M
Berit Hessel	Lillestrøm kommune	F
Marianne Larsen	Lillestrøm kommune	F
Øyvind Daaland Lesjø	Lillestrøm kommune	М
Øyvind Wahl	Lillestrøm kommune	М
Lise Svenning Jensen	Miljødirektoratet	F

## Representatives from user partner institutions

Name	Affiliation	Gender
Julie Sjøwall Oftedal	A-lab	F
Magnus Berg Jørgensen	A-lab	M
Pål Erik Olsen	A-lab	М
Geir Haaversen	A-lab	M
Bjørn Nordby	Asker kommune	М
Anja Østerli	Asker kommune	F
Gyrid Mangersnes	Asker kommune	F
Mari Ugland Grønstøl	Asker kommune	F
Cato Steinsvåg	Asker kommune	F
Bente Støa	Asker kommune	F
Christina Ek Reindal	Asker kommune	F
Sølve Brenn Jerm	Asker kommune	М
Anne Bertine Fagerheim	Bærum kommune	F
Claes Book	Bærum kommune	M
Kristin Molstad	Bærum kommune	F
Maia Comtet	Bærum kommune	F
Unni Larsen	Bærum kommune	F
Astrid Bjerke	FIVH	F
Elisabeth Riise Jenssen	FIVH	F
Hanne Gustavsen	FIVH	F
Tonje E. Orsten Kristiansen	FIVH	F
Siv Elin Ånestad	FIVH	F
Andreas Strandskog	Forbrukerrådet	М
Kadri Tammur	Helsedirektoratet	F
Heidi Fadum	Helsedirektoratet	F



## Representatives from user partner institutions

Name	Affiliation	Gender
Henriette Rognlien	Hurdal kommune	F
Gerhard Eidså	Istad Nett AS	М
Hallvard Benum	Kongsberg kommunale eiendom (KKE)	М
Kjetil Bjørklund	KS	М
Guro Bøe Wensaas	KS	F
Marianne Larsen	Lillestrøm kommune	F
Kai Roger Gjestemoen	Lillestrøm kommune	М
Øyvind Daaland Lesjø	Lillestrøm kommune	М
Sidsel Bjerke Hommersand	Lillestrøm kommune	F
Sølvi Tellefsen	Lillestrøm kommune	F
Øyvind Wahl	Lillestrøm kommune	М
Lise Svenning Jensen	Miljødirektoratet	F
Espen Larsen	Miljødirektoratet	М
Kirvil Stoltenberg	Miljødirektoratet	F
Sandrine Benard	Miljødirektoratet	F
Benedicte Langseth	NVE	F
Cecilie Karina von Hirsch	Oslo kommune	F
Astrid-Johanne Svensson	Oslo kommune	F
Cecilie Bergmann	Oslo kommune	F
Signe Nyhuus	Oslo kommune	F
Hilde Solli	Oslo kommune	F
Line Tveiten	Oslo kommune	F
Eyvind Fredriksen	Oslo kommune	М
Veronica Sund	Oslo kommune	F
Tora Tokvam Drægni	Oslo kommune	F
Gustavo P Andrade	Oslo kommune	М

## Representatives from user partner institutions

Name	Affiliation	Gender
Astrid Ståledotter Landstad	Oslo kommune	F
Sandra Skretting	Pådriv	F
Trine Kopstad Berentsen	Solenergiklyngen	F
Ola Rostad	Solenergiklyngen	M
Cari Anna King	SPIRE	F
Elise Åsnes	SPIRE	F
Lise Saga	SPIRE	F
Nora May Engeseth	Spire	F
Sofie Ringdal	Spire	F
Aasmund Bunkholt	TreFokus	M
Øystein Olav Miland	Troms og Finnmark fylkeskommune	M
Synnøve Lode	Troms og Finnmark fylkeskommune	F
Bjørn Inge Pettersen	Troms Kraft	M
Laurence Frémon-Pitras	Troms Kraft	F
Anja Johnsen	Tromsø kommune	F
Ernst Kloosterman	Tromsø kommune	M
Per Sjögren	Tromsø kommune	M
Anna Lundstein	Ullensaker kommune	F
Grethe Frank Strand	Ullensaker kommune	F
Maria Rasmussen	Ullensaker kommune	F
Anne Cathrine Ekroll	Ullensaker kommune	F
Åge Vebostad	Ullensaker kommune	М
Jeta Limani Andreassen	Ullensaker kommune	F
Ingrid Convery	Utdanningsforbundet	F
Trond Harsvik	Utdanningsforbundet	М



## Representatives from user partner institutions

Name	Affiliation	Gender
Charlotte Forsberg	Viken fylkeskommune	F
Fanny Pindsle	Viken fylkeskommune	F
Randi Julie Haldorsen	Viken fylkeskommune	F
Guri Bugge	Viken fylkeskommune	F
Inger Johanne Strand	Viken fylkeskommune	F
Gerd Jacobsen	Viken fylkeskommune	F
Pia Audhild Eide Husstad	Viken fylkeskommune	F
Hilde Rønning	Viken fylkeskommune	F
Tyra Risnes	Viken fylkeskommune	F
Amra Kalac	Viken fylkeskommune	F
Eli Nakken Lundquist	Viken fylkeskommune	F
Rina Kamilla Yamamoto	Viken fylkeskommune	F

### APPENDIX C

# Financial overview

## **BUDGET** Include budget 8 years (1000 NOK)

Research institutions	RCN	Own funding	Total
University of Oslo – UiO	47 732	47 367	95 099
UiT – The Arctic University of Norway	7 226	1 884	9 110
Fridtjof Nansen Institute – FNI	11 703	2 100	13 803
CICERO	12 179	2 600	14 779
TØI	10 230	1 050	11 280
OsloMet	610	248	858
Durham University	5 320	0	5 320
Research institutions, total	95 000	55 249	150 249
Partners (practitioners)		19 389	19 389
Include, total	95 000	74 638	169 638

(Figures in 1000 NOK)

## STATEMENT OF ACCOUNT

Reported costs and funding in 2022 (1000 NOK)

#### COSTS **FUNDING Research institutions Budget** Costs Costs vs Own **RCN** budget (%) funding University of Oslo - UiO 15 949 15 898 100 % 7 000 8 598 UiT - The Arctic University of Norway 3 3 1 6 1 920 247 1 673 Fridtjof Nansen Institute - FNI 2 449 2 687 110 % 300 2 387 CICERO 2 964 3 197 108 % 401 2 797 TØI 2 449 1 562 64 % 1 562 1 389 43 % **Durham University** 595 0 595 Research institutions, total 28 516 25 859 91 % 9 546 16 013 Partners (practitioners) 2 675 2 329 87 % 2 629 0 Include, total 28 189 16 013 31 191 90 % 12 175

(Figures in 1000 NOK)

#### APPENDIX D

# **Publications**

#### Academic publications

#### 2022

Aasen, Marianne, Marit Elisabeth Klemetsen, and Arild Vatn. 2022. 'Folk og klima: Utvikling i nordmenns oppfatninger om klimaendringer, klimapolitikk og eget ansvar 2018-2021'. 2022:07. Vol. 2022. CICERO Senter for klimaforskning.

Andersen, Mikael Skou, Lotte Christensen, Jakob Donner-Amnell, Per Ove Eikeland, Barbara Hedeler, Roger Hildingsson, Bengt Johansson, et al. 2022. 'To Facilitate a Fair Bioeconomy Transition, Stronger Regional-Level Linkages Are Needed'. *Biofuels, Bioproducts and Biorefining* 16 (4): 929–41. http://dx.doi.org/10.1002/bbb.2363.

**Anyadike-Danes, Chima Michael**. 2022. 'The Anthropology of Post-Coalonialism'. *The Network for Contemporary Anthropological Theory*.

Bern, Aleksander, and Per Gunnar Røe. 2022. 'Architectural Competitions and Public Participation'. *Cities: The International Journal of Urban Policy and Planning* 127: 12. http://dx.doi.org/10.1016/j.cities.2022.103730.

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03/2022 - Ny nettleiemodell for norske husholdninger

02/2022 - Kjønnsperspektiver på rettferdig omstilling

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. 2022d. 'The Power of the Pølse: Foodscapes. Convenience Food and Everyday Geographies of Meat Consumption and Reduction in Norway'. Presented at the Royal Geographical Society Annual International Conference.

Hansen, Arve, Ulrikke Bryn Wethal, Johannes Volden, and Øyvind Sundet. 2022. 'Kjøttskam eller ribbeglede?' Presented at the Fagkveld ved ISS, December 10.

Hansen, Espen Nedland and Jon Moxnes Steineke. 2022. 'Samfunnsplanlegging i Viken'. Presented at Include partnerforum in Oslo 27 April 2022 Regional planlegging og sosialt rettferdig omstilling til lavutslippssamfunnet - utgangspunkt i Vikenområdet.

Helstad, Kjetil. 2022. 'Landbrukets betydning i Arktis og som del av klima- og miljøomstilling'. Presented at Include Partnerforum Troms - bynært landbruk 27 April 2022.

Hepsø, Marit. 2021. 'Forbud mot mineralolje til byggvarme i 2022'. Presented at the Webinar: Olieforbud på byggeplasser, hva nå?

Holtsmark, Katinka Kristine. 2022a. 'Hva er det offentliges rolle i den grønne omstillingen?' Presented at the Seminar FN-sambandet, November 5.

2022b. 'Hva er effektene av strømstøtte på effektivitet og fordeling?' Presented at the INCLUDE Lunsj: Rettferdige strømpriser og støtteordninger, November 25.

Inderberg, Tor Håkon Jackson. 2022a. 'Framtidens energimarked – og behovet for Inkluderende omstilling. Eksempler fra vindkraftprosesser og energifattigdom'. Presented at the FELLESSYMPOSIUM NTVA-DNVA 2022: ENERGISITUASJONEN I EUROPA - HVA NÅ?

. 2022b. 'Samfunnsforskningens rolle i energiomstilling. Deltakelse i paneldebatt.' Presented at the Arendalsuka.

2022c. 'Include: Some Challenges for Norway's Energy Policies'. Presented at the International Energy Agency (IEA): dybdehøring IDR/ERR (In Depth Review/ Emergency Response Review) av Norges energisektor, January 25.

2022d. 'Muligheter og utfordringer i et nytt konsesjonssystem for vindkraft'. Presented at the Invitert internseminar hos Olje- og energidepartementet, April 28.

#### Presentations and dissemination

. 2022e. 'Energifattigdom "på norsk": Hva er det og hva kan vi gjøre med det?' Presented at the Arendalsuka, August 15.

. 2022f. 'A Social and Political Energy Transition: The Example of the Norwegian Electricity System'. September 14.

2022g. 'Norges kraftsektor i endring: Politiske utfordringer, drivere, og retning(er).' Presented at the POL3525 - Naturressursforvaltning og pol. øk., October 18.

2022h. 'En sosialt rettferdig energiomstilling? Eksempler fra vindkraftprosesser og energifattigdom'. Presented at the Styremøte, porteføljestyret NFR, October 23.

Inderberg, Tor Håkon Jackson, Per Ove Eikeland, and Karianne Krohn Taranger. 2022. 'Can Energy Transitions Be Just? Insights from Include and Windpower Processes in Norway'. Presented at the Geopolitics, climate change and the search for justice: The prospects for energy cooperation between Nordic and Latin American countries, September 5.

Jordhus-Lier, David. 2022a. 'Grønt partssamarbeid i kommunesektoren'. Presented at the Yrkesseksjonskonferanse Samferdsel og Teknisk.

2022b. 'The Role of Local Union Representatives in Just and Sustainable Transitions'. Presented at the Climate Emergency! Energy Crisis! A symposium on responsibility, inclusion and place-based action.

. 2022c. 'Klimakrisa, samfunnsvitenskapen og arbeidslivsforskningen'. Presented at the AFIs instituttseminar. October 24.

Klyve, Helene. Presentation at Miljødirektoratet's webinar 'Utslippsfrie anleggsplasser i kommunene - hva er mulig?'. 2022.

Knuth, Sarah. 2022. 'Decarbonising and Securing Households Under Climate Threat: What Tools, and Whose Futures?' Presented at the 2022 international symposium of Include in Durham.

Langseth, Benedicte. 2022. 'Regelverk og bakgrunn for vurderinger av fjernvarmereguleringen'. Presented at Norges Energidager 21-22 October 2022

Laupsa, Herdis. 2022. 'Hva krever og forventer staten av kommunenes klimaarbeid, og hva kan staten gjøre for kommunene?' Presented at Klimasamling for kommunene i Viken, arrangert av Miljødirektoratet.

Leikanger, Iris. 2022a. 'Co-Producing Local Sustainability?' Presented at the Include forskersamling.

2022b. 'Hva betyr medvirkning i kommuners arbeid med omstilling?' Presented at the NFR site visit ved FME Include.

-. 2022c. 'Responses to Keynote Presentation by Janet Stephenson Titled "Culture and Energy Transitions". Presented at the Climate Emergency! Energy Crisis! A symposium on responsibility, inclusion and place-based action.

Lindberg, Marie Byskov. 2022. 'Kraftmarkedet i skuddlinja Hvordan og hvorfor fungerer (ikke) markedet?' Presented at the KAN KRAFTMARKEDET ELEKTRIFISERE NORGE? Debatt på Arendalsuka.

Lindberg, Marie Byskov, and Tor Håkon Jackson Inderberg. 2022a. 'Lokal energi i borettslag? Hindre og muligheter for å installere solceller'. Presented at the Arendalsuka.

. 2022b. 'Egenproduksjon av strøm i borettslag'. Presented at the Forskesamling FME INCLUDE, May 24.

Matthiasen, Eivind Hjort. 2022a. 'Energifleksibilitet for alle - en ønskedrøm?' Presented at the Ut av Akademia.

-. 2022b. 'Forståelsen av forbrukeres evne til å omstille seg til bærekraftige praksiser: Like forutsetninger eller en ønskedrøm'. Presented at the Include Forskersamling, May 24.

2022c. 'Understanding Consumer's Capacity to Transition to Sustainable Energy Practices: A Level Playing Field or a Pipe Dream?' Presented at the Climate Emergency! Energy Crisis! A symposium on responsibility, inclusion and place-based action, September 14.

Miljødirektoratet. 2022. Klimapodcast 47: 'Rettferdig omstilling', with Anders Tønnesen, CICERO

Miljødirektoratet. 2022. Klimapodcast 49: 'Utslippsfrie lastebiler', with blant annet Petter Christiansen fra klimaetaten i Oslo Kommune.



**Miljødirektoratet**. 2022. Klimapodcast 53: 'Å bygge på det man har', with blant annet Åsmund Bunkholt, TreFokus.

Miljødirektoratet. 2022. Klimapodcast 54: '– Sett tydelige mål og få med folket', with Gunn Marit Helgesen, KS.

**Miljødirektoratet**. 2022. Klimapodcast 55: 'Møbel-alkymi i kommunal regi', with blant annet Anja Østerli i Asker kommune.

Miljødirektoratet. 2022. Klimapodcast 56: 'Klimaarbeidets tre dimensjoner', with Dina Hestad i cChange.

**Millmore, Tracy**. 2022. 'Developing Electric Vehicle infrastructure in Local Authorities, the method and best practice in County Durham'. Presented at the 2022 international symposium of Include in Durham.

Mygland, Reidunn, and Hege Westskog. 2022. 'Rettferdig omstilling'. Presented at the Grønn Praksis Kristiansand.

Nordby, Bjørn. 2022. 'Om ombrukssenteret Om igjen'. Presented at Konferanse: Smaken av Asker og Bærum: 21 March 2022

Nordgård-Melander, Magna. 2022. 'Lokalmat og bynært landbruk – muligheter og barrierer. Perspektiver fra produsent'. Presented at Include Partnerforum Troms – bynært landbruk 27 April 2022

Riise, Anja Bakken. 2022. 'Hvordan kan rike Norge bidra til global ressurs- og klimarettferdighet?'. Presented at Åpent møte i regi av Besteforeldreaksjonen.

**Rognlien, Henriette**. 2022. 'Samfunnsutvikling og sentrumsplanen i Hurdal'. Presented to Kommunal og Distriktsdepartementet, regionalpolitisk avdeling, 21 September 2022.

**Røe, Per Gunnar**. 2022a. 'Conceptualising, Designing and Performing the City Floor: An Appropriation of the Urban Commons'. Presented at the Planning and place: montage, post-human, milieu (seminar).

———. 2022b. 'Presentasjon av Include-senterets forskning på by- og stedsutvikling'. Presented at the Dialogmøte.

——. 2022c. 'Skaper kompakt byutvikling eksklusive og ekskluderende soner og rom?' Presented at the Samfunnsgeografisk vinterseminar.

———. 2022d. 'Konseptualisering, design og utøvelse av bygulvet – en appropriasjon av byens allmenninger og fellesrom'. Presented at the 'Site visit' fra Norges forskningsråd, February 6.

——. 2022e. 'Presentasjon av Include – forskningssenter for sosialt inkluderende energiomstilling'. Presented at the Samfunnsgeografisk vinterseminar, March 17.

——. 2022f. 'Fra bygd til by – Asker i urbaniseringens tidsalder'. Presented at the Medlemsmøte i Asker Rotary, March 28.

——. 2022g. 'Sosial bærekraft og offentlig rom'.

Presented at the Workshop om sosial bærekraft, April 22.

——. 2022h. 'Include – forskningssenter for sosialt inkluderende energiomstilling'. Presented at the Include partnerforum, April 27.

——. 2022i. 'Oppsummering av forskersamling'. Presented at the Include forskersamling, May 24.

———. 2022j. 'Byutvikling, mobilitet og rettferdighet'. Presented at the Inspirasjonssamling for forskningsdagene, August 11.

——. 2022k. 'Energismart byutvikling, mobilitet og rettferdighet'. Presented at the Inspirasjonssamling før forskningsdagene, August 11.

———. 2022I. 'Designing Public Space in the Energy Smart and Compact City – an Appropriation of the Urban Commons'. Presented at the DEI Annual Research Symposium "Earth, Wind & Fire", September 13.

——. 2022m. 'Lillestrøm og Kjeller i urbaniseringens tid'. Presented at the Fremtidens Kjeller, September 29.

——. 2022n. 'Why Is Energy Transition Controversial?' Presented at the Public launch of researcher school Empowered Futures, September 29.

——. 2022o. 'Byutvikling og ulikhet i Bjørvika'. Presented at the Fagseminar om Bjørvika i forbindelse med utdelingen av Oslo bys arkitekturpris, October 13.

——. 2022p. 'Møteplasser – naboskapet i nabolaget'. Presented at the Oslo arkitekturtriennale 2022: Samspillet om nabolagene, October 13.

#### Presentations and dissemination

Røe, Per Gunnar, and Milla Skjeklesæther Bjerkestrand. 2022. 'Designing Public Space in the Compact City – the Social Performativity of the City Floor'. Presented at the Storbykonferansen.

Rosendal, G. Kristin, and Jon Birger Skjærseth. 2022. 'Balancing Climate and Nature in Renewable Energy Development: The Stormy Case of Norwegian Wind Power'. Presented at the NESS Conference.

**Sjögren, Per**. 2022a. 'Bakgrunn for prosjekt på bynært landbruk og hvordan Includes arbeid vil brukes videre'. Presented at Referansegruppemøte kortreist og småskala 29 September 2022.

———. 2022b. 'Bynært landbruk i Tromsø kommune'. Presented at Include Partnerforum Troms – bynært landbruk 27 April 2022.

**Skjærseth, Jon Birger**. 2022a. 'Hydrogen som klimaløsning i EU og Norge: Status og utsikter'. Presented at the Brukerseminar.

——. 2022b. 'Norway's Hydrogen Strategy'. Presented at the Rundebordskonferanse.

——. 2022c. 'Norway's Hydrogen Strategy: Punching the Air or above Its Weight?' Presented at the Institute for Advanced Sustainability Studies – Seminar.

——. 2022d. 'The Emergence of a European Hydrogen Market'. Presented at the Seminar, UiB.

——. 2022e. 'The Evolution of EU Climate Policies: From Single Instruments to Policy Packages'. Presented at the UBC study tour, University of British Columbia.

——. 2022f. 'Vindkraft og politisk dynamikk – fra EU press til lokal motstand. Hva kan vi lære fra land til hav?' Presented at the NTRANS/North Wind. Seminar.

——. 2022g. 'Participation in Equinor-NUPI Roundtable on Energy Security in Europe'. Presented at the Roundtable on energy security in Europe, November 21.

**Smørdal, Ole**. 2022a. 'Breivoll fabrikker – bærekraft gjennom samskaping?' Presented at the Workshop UC5: Bærekraftig innovasjon og omstilling i urbane områder.

——. 2022b. 'SPARK Social Innovation Educational Forum: Erfaringer fra partnerskap mellom offentlige, private og sosiale aktører'. Presented at the SPARK Social Innovation Educational Forum, March 15.

——. 2022c. 'Inclusion and Hovinbyen'. Presented at the UC5 Kick-off seminar on Sustainable innovation and transition of urban areas, August 6.

——. 2022d. 'Inkludering og samskaping på Breivoll'. Presented at the Breivoll fabrikker workshop, August 23.

Smørdal, Ole, and Anja Amundrud. 2022a. 'Deltagelse og inkludering på Breivoll'. Presented at the Samling #2 Arena Den produktive boligbyen – Breivoll, January 6.

 2022b. 'IPEDs deltakelse i INCLUDE
 et forskningssenter for sosialt inkluderende energiomstilling'. Presented at the Lunsj med påfyll, March 28.

——. 2022c. 'Samling #1 Arena Breivoll'. Presented at the Samling #1 Arena Breivoll, March 30.

——. 2022d. 'Deltagelse og inkludering på Breivoll'. Presented at the Planleggingsmøte Arena, August 2.

——. 2022e. 'Samskaping og digitale plattformer'.

Presented at the Workshop Breivoll fabrikker, September 22.

Smørdal, Ole, Anja Amundrud, and Neha Singh Gabrielsen. 2022. 'Mot nye EVU-tilbud innen bærekraftig omstilling'. Presented at the Lunsjseminar for ansatte ved UV, April 27.

**Solberg, Nina**. 2022. 'Omstillingskompetanse for et bærekraftig lavutslippssamfunn'. Presented at Include partnerforum omstillingskompetanse, 19 May 2022.

Solnørdal, Mette Talseth. 2022. 'Presentation om Include og sosialt inkluderende omstilling. Gjesteforelesning i fordypningskurs på masternivå ved UiT'. Presented at the Master fordypningskurs på Handelshøgskolen ved UiT, January 9.

Solnørdal, Mette Talseth, and Hege Westskog. 2022. 'Lokalmat som klima- og miljøomstillingsstrategi.' Presented at the Partnerforum Include, April 27.

**Solomin, Isak og Geir Rossebø**. Presentation at Miljødirektoratet's webinar 'Klimavennlig drift og vedlikehold og veier'. 2022.

**Standal, Karina**. 2022a. 'A consumer perspective on the energy transition'. Presented at the PhD course – From Energy Systems to Energy Justice, January 9.

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——. 2022b. 'Rettferdig omstilling'. Presented at the Forskningsrådets energiforskningskonferanse 2022, June 12.

——. 2022c. 'Betydningen av lokale energiløsninger i omstillingen'. Presented at the Arendalsuka 2022: Er lokale energiløsninger veien til klimaomstilling? August 16.

**Star, Marieke Elisabeth van der**. 2022. 'PhD-Workshop during Include Conference Durham, UK'. Presented at the PhD-workshop during Include conference Durham, September 14.

**Stephenson, Janet**. 2022. 'Culture and energy transitions'. Presented at the 2022 international symposium of Include in Durham.

**Stokstad, Sigrid**. 2022. 'Bidrar plan- og bygningslovens krav om medvirkning til sosialt rettferdig overgang til lavuttslippssamfunnet?' Presented at the Faglunsj naturressurgruppa, September 9.

**Szulecki, Kacper**. 2022a. 'The Politics of Energy Transition: Energy, Democracy, and Justice'. Presented at the Departmental seminar, March 12.

——. 2022b. 'Polskie elektrownie jądrowe? Wiele pytań, niewiele odpowiedzi.' Presented at the GLIWICKIE KONWERSATORIUM INTELIGENTNA ENERGETYKA, December 20.

Szulecki, Kacper, Solveig Aamodt, Ida Dokk Smith, Camilla Houeland, Tanja Winther, and Kathrine Sund-Henriksen. 2022. 'Energy Security: Are Rich Country's Climate Policies Colonialism in Green?' Presented at the Achieving sustainable development: Bridging the gap between research and policy – Annual Oslo SDG Initiative conference, October 31.

Szulecki, Kacper, Jan Osicka, and Kirsten Jenkins. 2022. '(Dis)Connected Fields: Mapping the Development of the Energy Justice and Energy Democracy Research'. Presented at the ECPR General Conference, August 22.

**Sæther, Bjørnar**. 2022: 'Når grønn byutvikling forbruker den bynære naturen' Presented at the Include lunch seminar: Hva vet vi om bioenergi og massedeponier fra et samfunnsvitenskapelig perspektiv?

**Tellefsen, Sølvi and Nina Solberg**. 2022. 'Fra utlån til innovasjon og klimaomstilling med Lillestrøm Culture HUB'. Presented at Grønn Praksis 2022 in Kristiansand.

**Tennøy, Aud**. 2022a. 'Arealstruktur, arealutvikling og kollektivtransportens konkurransekraft.' Presented at the Kollektivtrafikkforeningens introduksjonskurs.

——. 2022b. 'Klimavennlige, attraktive og levende byer – hvordan bør arealene fordeles for å oppnå det?' Presented at the Oslo Aps programkomite, January 6.

——. 2022c. 'Effekter av redusert hastighet og veikapasitet i Trondheimsveien mellom Grorud og Sinsen: Analyse basert på tidligere erfaringer i Oslo.' Presented at the Bjerke bydelsutvalg, May 5.

——. 2022d. 'Klimavennlige, attraktive og levende byer – hvordan bør arealene fordeles for å oppnå det?' Presented at the Klimavennlige, attraktive og levende byer – hvordan bør arealene fordeles for å oppnå det?, May 24.

——. 2022e. 'Areal- og transportutvikling for klimavennlige, attraktive og levende byer.' Presented at the Byutviklingsverksted i trehusbyen Levanger, August 30

2022f. 'Effekter av redusert hastighet og veikapasitet i Trondheimsveien mellom Grorud og Sinsen: Analyse basert på tidligere erfaringer i Oslo.' Presented at the Folkemøte om Trondheimsveien, September 5.

——. 2022g. 'Trenger vi Ring 1?' Presented at the Stram Lunsi, debatt, September 13.

——. 2022h. 'Kjellerutviklingen'. Presented at the Ekstern referansegruppe for Kjellerutviklingen på Lillestrøm, September 15.

——. 2022i. 'Hvordan økt veikapasitet påvirker arealutvikling og trafikk.' Presented at the Klimasamling for kommunene i Viken, October 18.

——. 2022j. 'Klimavennlige, attraktive og levende byer – hvordan bør arealene fordeles for å oppnå det?' Presented at the En unormal gatenormal: Foregår det en stille revolusjon i Oslos gater? December 5.

**Torvanger, Asbjørn**. 2022: 'Kan bioenergi frå skogen bli viktig i den grøne omstillinga?' Presented at the Include lunch seminar: Hva vet vi om bioenergi og massedeponier fra et samfunnsvitenskapelig perspektiv?

#### Presentations and dissemination

**Tønnesen, Anders**. 2022a. 'Sustainable Land Use in Low-Populated Municipalities'. Presented at the Climate Emergency! Energy Crisis!

———. 2022b. 'Sirkulærøkonomi – kommunens rolle'. Presented at the Innspillseminar arrangert av partiet Høyre, January 13.

———. 2022c. 'Include: Forskningssenter for Miljøvennlig Energi – FME Samfunn (2020-27)'. Presented at the Planforum, March 14.

——. 2022d. 'Innbyggerinvolvering og tilpasning av klimapolitikk til ulike kontekster'. Presented at the Partnerforum, April 27.

——. 2022e. 'Klimavennlig arealutvikling i små kommuner'. Presented at the Forskersamling Include, May 25

——. 2022f. 'Klima- og energikrisen i et rettferdighetsperspektiv'. Presented at the Grønn Praksis, May 31.

——. 2022g. 'Medvirkning og klimaomstilling i et rettferdighetsperspektiv'. Presented at the Seminar, June 20.

——. 2022h. 'Bærekraftig arealbruk i kommuner med lav befolkning'. Presented at the Referansegruppemøte, September 27.

——. 2022i. 'Natur- og klimakrise – hver for seg eller løsning i sammenheng?' Presented at the egional planog klimakonferanse i Ålesund, October 25.

Tønnesen, Anders, Monica Guillen-Royo, and Sindre Cottis Hoff. 2022. 'Understanding Sustainability Policies in Rural Settings – A Case Study of Land-Use Management in Four Norwegian Municipalities'. Presented at the Climate Emergency! Energy Crisis!, Durham, September 14.

**Tveiten, Line**. 2022. 'Bymiljøetatens erfaringer så langt med bærekratig og sunn mat i kantinen i Karvesvingen 3'. Presented at Referansegruppemøte kortreist og småskala 29 September 2022.

Vågerö, Oskar. 2022a. 'Korleis definerast rettferdig fordeling av energi-relatert infrastruktur? Perspektiv frå modellering av energisystem'. Presented at the Korleis definerast rettferdig fordeling av energi-relatert infrastruktur? Perspektiv frå modellering av energisystem, May 24. ——. 2022b. 'Just Modelling'. Presented at the Climate Emergency! Energy Crisis! A symposium on responsibility, inclusion and place-based action, September 15.

Vindegg, Mikkel. 2022. 'Lokale energimuligheter: En casestudie av energi-initiativ på Utsira'. Presented at the Include forskersamling, March 24.

**Volden, Johannes**. 2022a. 'Tomorrow's Foods, Today's Practice? Visceral Encounters with Alternative Proteins in Everyday Life'. Presented at the RGS-IBG Annual International Conference, February 9.

2022b. 'Doing (Food) without Meat?
 Accomplishing Substitution and Qualifying Substitutes in Household Food Practices'. Presented at the ESA RN05
 Sociology of Consumption, March 9.

——. 2022c. 'Tomorrow's Food Today? Barriers and Opportunities for Alternative Proteins in Household Food Practices'. Presented at the What's Up Wednesday, September 11.

——. 2022d. 'Transitioning Food Consumption from Conventional Meat and towards Alternative Proteins: Perspectives on Justice and Inclusion'. Presented at the Climate Emergency! Energy Crisis! A symposium on responsibility, inclusion and place-based action (PhD session), September 15.

——. 2022e. 'Kjøttets framtid i forbruket: Muligheter og barrierer for å legge om matvaner fra konvensjonelt kjøtt til alternative proteiner og kjøttreduserende praksiser fra et forbrukerperspektiv'. Presented at the Onsdagsmøtet, October 13.

——. 2022f. 'The Emergence of Cell-Cultured Meat: A Brief Introduction'. Presented at the The Emergence of Cell-Cultured Meat, November 17.

——. 2022g. 'Kommentar til forelesning av Richard Wilk'. Presented at the Hal Wilhite Memorial Lecture, December 13.

**Westskog**, **Hege**. 2022a. 'Klimaomstilling i distriktene'. Presented at the Lunsjseminar Miljødirektoratet, January 3.

——. 2022b. 'Lokalmat som omstillingsstrategi – noen foreløpige resultater'. Presented at the WP3 Includeforskermøte, February 28.



-. 2022c. 'Kommunenes rolle i omstilling til lavutslippssamfunnet'. Presented at the Klimakonferanse Hallingdal, March 16. . 2022d. 'Småskalalandbruk prosjekt – fokus og metode'. Presented at the e. Referansegruppemøte kortreist og småskala, March 31. . 2022e. 'Kommunenes rolle i omstilling til lavutslippssamfunnet - Hole'. Presented at the Workshop klima- og miljøplan Hole kommune, April 5. -. 2022f. 'Deling som bærekraftig omstillingsstrategi'. Presented at the Grønn Praksis Kristiansand, May 31. . 2022g. 'Hva er klima- og miljøomstilling? Forståelsesrammer og behov for transformasjon'. Presented at the Etter- og videreutdanning masterkurs bærekrafitg omstilllingsledelse;, September 11. Westskog, Hege, and Thea Sandnes. 2022. 'Forprosiekt småskalalandbruk'. Presented at the Referansegruppemøte kortreist og småskala, September 29. Westskog, Hege, Ole Smørdal, and Nina Solberg. 2022. 'Mot nye EVU-tilbud innen klima- og miljøomstilling'. Presented at the Partnerforum, May 19. Westskog, Hege, and Mikkel Vindegg. 2022. 'Lokalmat som omstillingsstrategi'. Presented at the Frokostseminar Kulturhuset, September 27. Wethal, Ulrikke Bryn. 2022a. 'Ombruk i Asker kommune'. Presented at the NFR site visit, February 2. —. 2022b. 'The Norwegian Sausage: Exploring Meaning and Materiality in "Convenient" Meat Consumption'. Presented at the AAG Annual Meeting, February 25. . 2022c. 'Hvordan kan vi få bukt med den norske bruk-og-kast-mentaliteten?' Presented at the Temamøte hos Klima- og Miljødepartementet (KLD, June 12. . 2022d. 'Ubehagelige samtaler: Forbruk'. Presented at the Åpningen av Domus Bibliotheca;, September 21. . 2022e. 'Frokost i Klimahuset: Hvordan endret forbruket seg under koronakrisen?' Presented at the Frokost i Klimahuset, October 13.

Wethal, Ulrikke Bryn, and Sindre Cottis Hoff. 2022a. 'Lokale initiativer for bærekraftig forbruk: Asker kommune'. Presented at the KGB kommunenettverk om gjenbrukssentere og bærekraft.

——. 2022b. 'Lokale initiativer for bærekraftig forbruk: Asker kommune'. Presented at the Referansegruppemøte, June 4.

——. 2022c. 'Everyday Life and the Circular Economy: Exploring Households' (Lack of) Engagement with Circular Consumption in Asker, Norway'. Presented at the European Sociological Association: RN5 – Midterm Meeting of the Research Network of Sociology of Consumption, August 31.

Winther, Tanja. 2022a. 'Energy Security: Are Rich Country's Climate Policies Colonialism in Green?' Presented at the Oslo SDG Initiative Annual Conference: Achieving sustainable development: Bridging the gap between research and policy.

——. 2022b. 'Wider Issues of Social Acceptance in the Energy Transition with Learnings from Cases'. Presented at the Public Acceptance of BioFuels and Renewable Energy, January 27.

——. 2022c. 'Pathways to Just Transition – Authors' Views'. Presented at the Gender and Energy: Empowering women as the key players of just energy transitions Launch Event for First Volume on Gender and Energy;, March 3.

——... 2022d. 'What Is Fair? Reflections on Energy Transitions and Fairness from a Bottom-up Perspective'. Presented at the Fair Energy Transition Webinar, March 31.

——. 2022e. 'Socially Inclusive Transition'. Presented at the MA course Durham University: Context and challenges, April 11.

——. 2022f. 'Forbrukersperspektiver'. Presented at the Energikrisen – mer enn en priskrise, April 25.

#### Presentations and dissemination

. 2022g. 'Deltakelse under workshop: bidrag til

Winther, Tanja, and Simone Almond Abram. 2022. 'Introduction to Conference'. Presented at the Include International Conference 2022: Climate Emergency! Energy Crisis! A symposium on responsibility, inclusion and place-based action;, September 14.

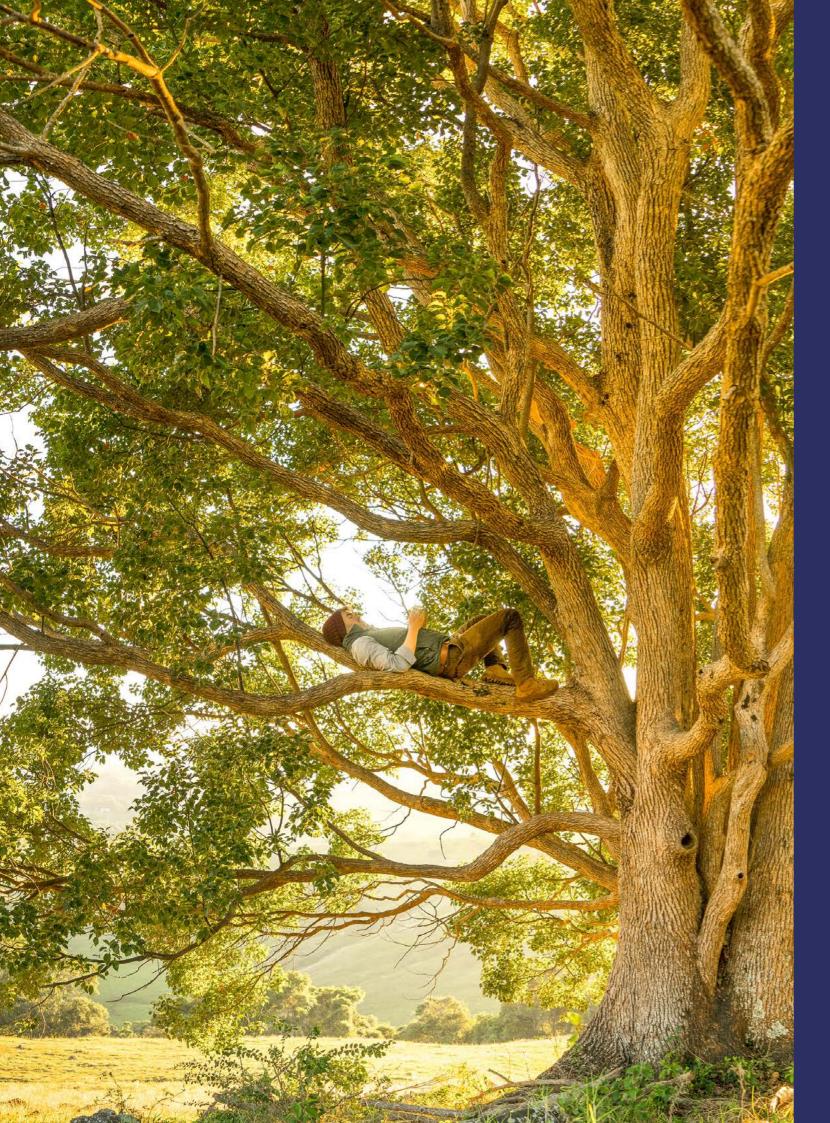
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