



Záverečná konferencia projektu „Klimaticky odolná Bratislava – Pilotné projekty zamerané na dekarbonizáciu, energetickú účinnosť budov a udržateľné hospodárenie s dažďovou vodou v mestskom prostredí“ (číslo projektu: ACC01P03)

Od plánu k činom

Nový klimatický plán Bratislavy



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BERGEN

Climate Policy of the City of Bergen

07/05/2024



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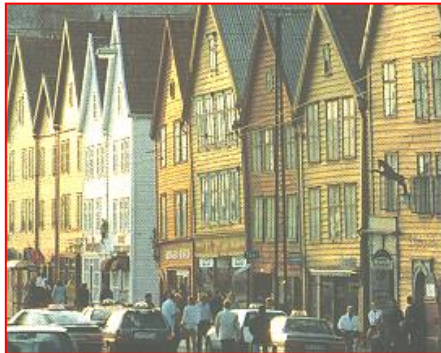
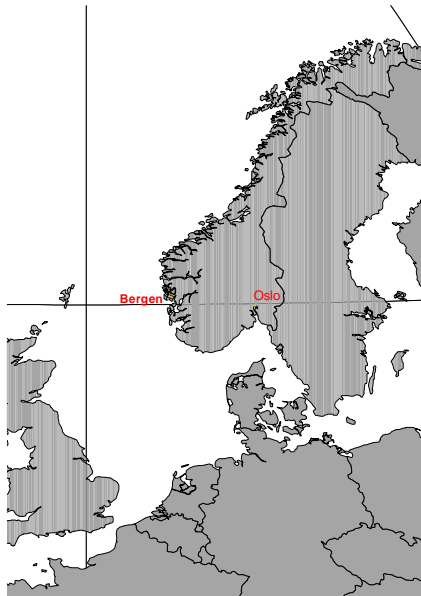
Climate Policy of the City of Bergen

City of Bergen, founded 1070 a.C.

Area 450 km²

Population 290 000 (second largest city in Norway)

Yearly precipitation: 2500 mm



*Magnar Sekse
Director
Bergen Water*



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This is Bergen... in a sunny day....



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Green strategy:

Climate strategy for Bergen 2022-2030

- The Green Strategy was adopted by the Bergen City Council in January 2023 and includes strategies for climate mitigation and adaptation.
- The Green Strategy is supplemented with an action plan that outlines specific measures to meet the climate goals.



Bergen's vision, goals, targets and strategies

- Our vision is to be a driving force for an:

➤ **ambitious, radical and just climate transformation**

....that will allow everyone in Bergen to live good lives with low emissions in a changing climate.

Follow up Paris agreement

i 1,5 graderssamfunnet

Bergens innbyggere og virksomheter begrenser sine direkte og indirekte utslipp og annen påvirkning på klima til et nivå som er i tråd med Parisavtalen.

Building the attractive, sustainable, and fair city

- Liveable neighbourhoods
- Access to nature
- A fair city



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Strategies for reaching the 2030 and 2050 target



Strategy 1: Reduce direct emissions

Direct carbon emissions in Bergen are reduced by 85% from 2009 to 2030.



Strategy 2: Circulate resources

In Bergen, we value our resources. In 2030 material consumption, indirect emissions and the amount of waste is reduced. At least 65% of waste is turned into new resources.



Strategy 3: Protect nature

In Bergen we protect nature and strengthen its capacity to store carbon and make us climate robust. In 2030 we have developed solutions that benefit both nature and climate.



Strategy 4: Prepare for change

In 2030 Bergen is equipped to deal with the effects of a changing climate and makes use of the opportunities of the transition to a low carbon society.



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How to follow up the City strategies.

- 1. A just transformation** *(improve public health and not increase social and economic inequalities.)*
- 2. Mobilising for climate action** *(everyone contributes to creating a low carbon society by 2030)*
- 3. Sustainable mobility** *(good, efficient and environmentally friendly transport solutions)*
- 4. Fossil free transport** *(all road transport in Bergen will be fossil free by 2030).*
- 5. Energy efficiency and renewable energy**
- 6. Construction for the future**
- 7. An adapted and safe city**
- 8. Land use neutrality**
- 9. Reduce the carbon footprint** *(lower material consumption, more reuse etc.)*
- 10. Emissions-free waste management**
- 11. Industry in transition**



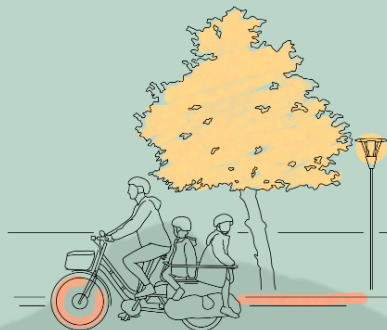
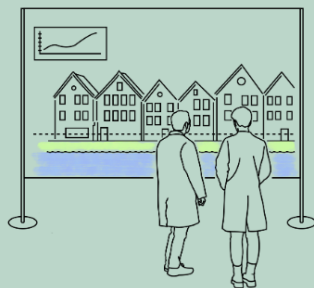
Tools for follow up and measure different sources



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Klimadashbord for Bergen

[Tilgjengelighetserklæring](#)



Velg tema
Utslipp av klimagasser i Bergen
Veitrafikk
Kollektiv
Energiproduksjon
Landstrøm
Flytrafikk
Kommunen som bedrift
Avfall



Klimadashbordet for Bergen viser ulike indikatorer med betydning for klimagassutslipp i Bergen. Der det er mål knyttet til en indikator er disse vist sammen med indikatoren slik at man skal kunne se om vi er i ferd med å nå målene eller ikke.

Spørsmål/tilbakemeldinger: kontakt Klimaetaten
Klimaetaten@bergen.kommune.no



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Sources for greenhouse gas outlets in Bergen



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Forside

Utslipp av
klimagasser i
Bergen

Veitrafikk

Kollektiv

Energiproduksjon

Landstrøm

Flytrafikk

Kommunen som
bedrift

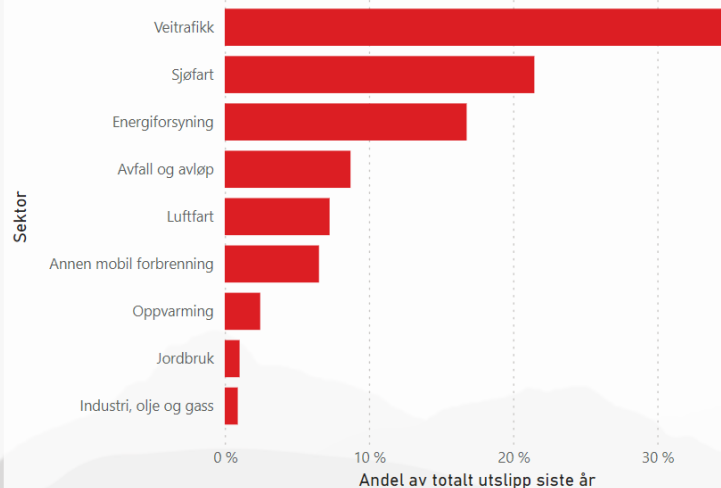
Avfall

Utslipp av klimagasser i Bergen

Velg sektor

Alle

Transport (veitrafikk, sjøfart og luftfart) står for 64 % av utslippene



Klimamål for 2009-2030: -85%

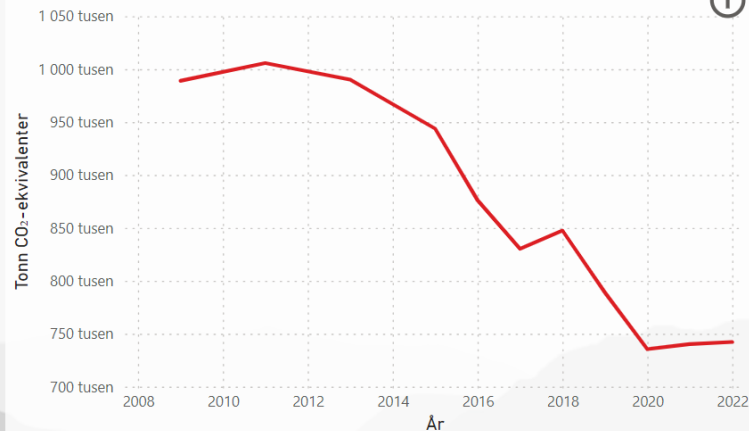
-25 %

Endring i utslipp (2009-2022)

0 %

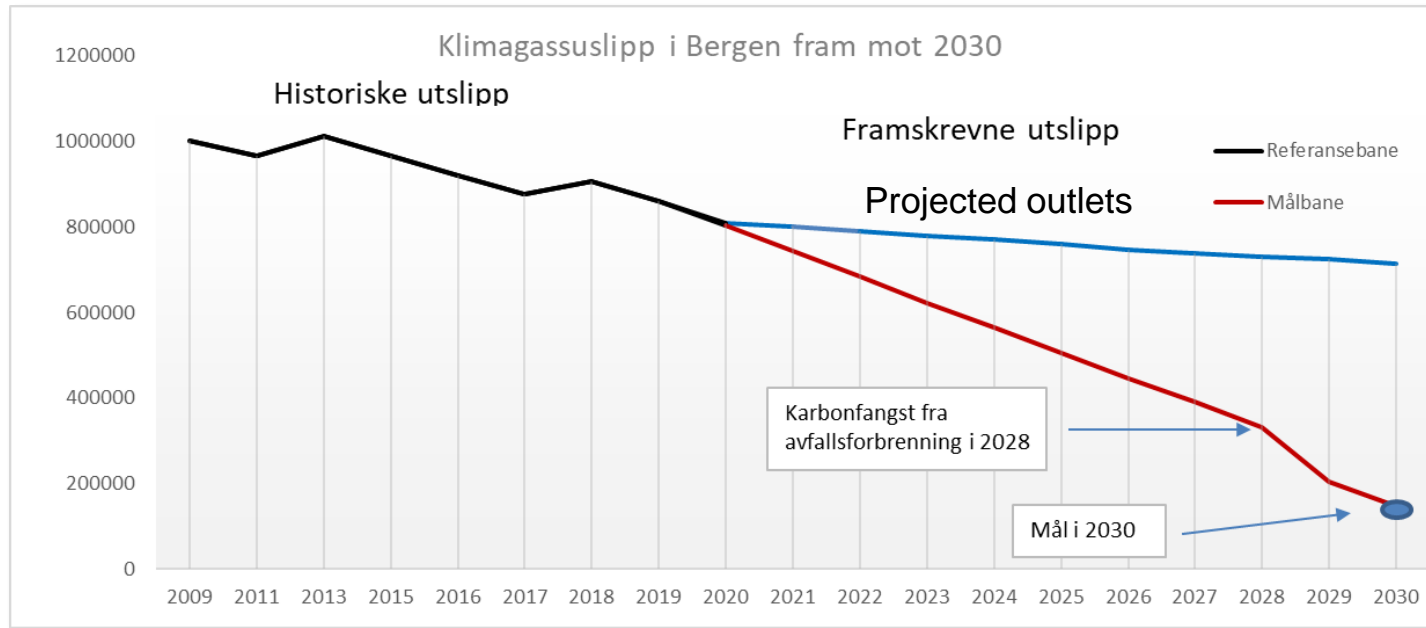
Endring i utslipp siste år

Utslipp av klimagasser i Bergen er jevnt synkende



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Historical and planned outlets of greenhouse gas in Bergen



Adaptation to Climate change – water in focus.



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Master plan on Storm Water in the most rainy city in Europe.

General strategy for handling of storm water and blue-green infrastructure

Approved in City Council September 2019



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Tradisjonell overvannshåndtering



Blågrønn overvannshåndtering



Figur xx Viser tradisjonell overvannshåndtering og blågrønn overvannshåndtering i Bergen kommune.

Traditional

Blue-green

Solution of blue-green infrastructure as part of climate change adaptation!

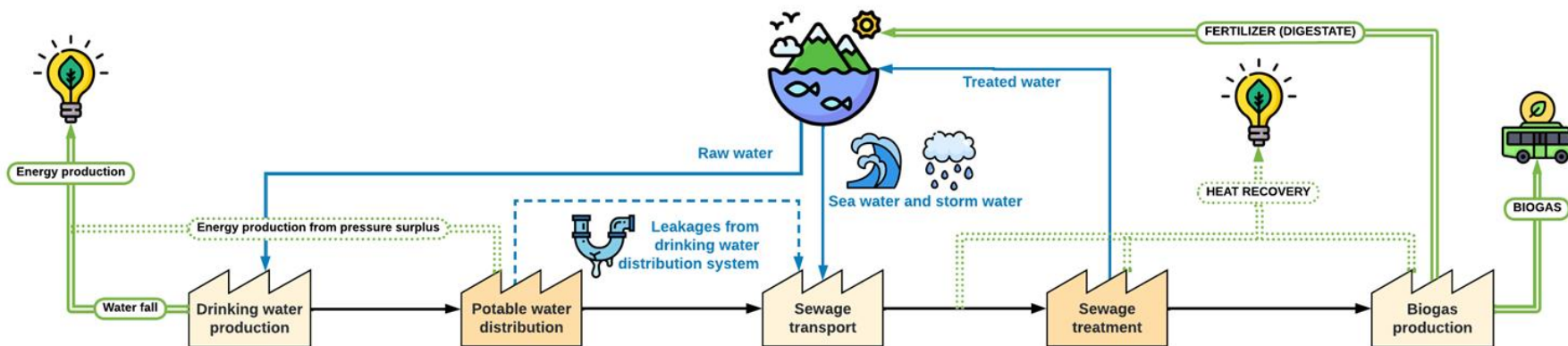
Open solutions
should always be
the first choice!



Mindemyren open channelsystem, developed together with new Light Rail line



KNOW YOUR VALUE CHAIN

[illegible]

Bergen Water recognized as Climate Smart Utility by IWA – International Water Association



Certificate of Recognition

This certificate is awarded to:

Bergen Water

for the successful Climate Smart Utilities application submitted
to the 2022 IWA Recognition Programme

TOM MOLLENKOPF
President, IWA



KALA VAIRAVAMOORTHY
Executive Director, IWA



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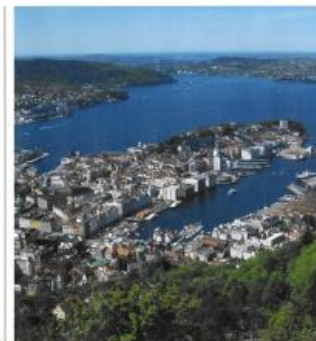
Bergen – A city that celebrates its water challenges



Magnar Sekse, the director of Bergen Water, talks to Erika Yarrow-Soden about the world-leading work that has brought climate resilience to this Norwegian city.

Magnar Sekse has been at the forefront of Bergen Water's adoption of nature-based solutions that have created a city that is resilient, biodiverse and good for well-being, with water central to its city planning.

Sekse explains: "As the rainiest city in Europe, rain has always been an issue in Bergen. Since I was a student and got my Master's degree, I have been working in the water treatment and especially with stormwater. I had a lot of cooperation with the technical university in Norway and we had an ongoing partnership on stormwater handling and what we then called nature-based solutions. This was the beginning of what we now call blue-green solutions, where you try to copy nature and avoid digging sewers and pipes. As part of that, we created a professional team in Bergen working on this kind of solution and in 2005 we made guidelines for stormwater handling in Bergen, which preferred blue-green solutions."



October 2022 | The Source | 11

«Climate adaptation» Bergen 2045

Drawing by newspaper «Morgenbladet»



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Bergenvann.no

[Vann i Bergen](#) | [Facebook](#)

Illustrasjon fra Morgenbladet



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Thank you for your
attention!



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Involving Citizens in Climate Issues

- Conferences and meetings on Climate issues, adaptation and mitigation.
 - Arranged by the city and others
- Yearly City Development Congress – arranged by the Department of Urban Development, City of Bergen.
- Breakfast meeting once a Month – low threshold arrangement
 - Bergen City/Climate agency, Academia, Business, others – low cost arrangement
- Risk assessment and preparedness planning - involving citizens
 - Different projects and perspectives
- Yearly citizens surveys – asking questions on climate issues (1000 citizens – yearly)
 - Which are our biggest challenges on climate change
 - Where and how can we succeed to meet them
 - How can we collaborate to speed up actions against climate change



Citizen Survey on Climate 2022



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Yearly organized Climate Conference «Warmer – Wetter – Wilder» and many other meetings concerning climate change (Bergen Chamber of Commerce and Industry)

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Bergen Chamber of
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INVITASJON

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Membership

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About us Contact Chamber of Commerce and Industry Commercial and Industrial Policy



Our history

The Bergen Chamber of Commerce has proud traditions dating back to 1845.

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INVITASJON



1.5-gradersbyen Bergen - Kva skal til?

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Bergen Chamber of
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INVITASJON

Klimaindeks Vest
2023

"Klimaindeks Vest" og panelsamtale om
klimastrategi



Varmere Våtere Villere

Velkommen til møteplassen for klima, kunnskap og kultur!

Fra 13. mars til 15. mars 2024
Kulturhuset



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5. mars 2025

12.- 15. mars 2025

12.- 15. mars 2025

1

Involving Citizens and school in developing Green Strategy

- Method **Gjestebud** = Informal digital meeting – where you as a person can invite friends, family and/or neighbours to discuss and identify different solutions and challenges connected to climate issues in an easy and friendly atmosphere.
- Main purpose is to get input and engagement from people who normally not attend open more formal public meetings.
- Invitation and guidance on the City WEB-site.
- An easy low cost way to engage citizens and young people.
- Gjestebud used as one of several methods in developing Green Strategy for Bergen
- Meetings and involvement of Secondary School – engagement and education
 - Questions,
 - Reflections,
 - Discussions
 - Proposals



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