



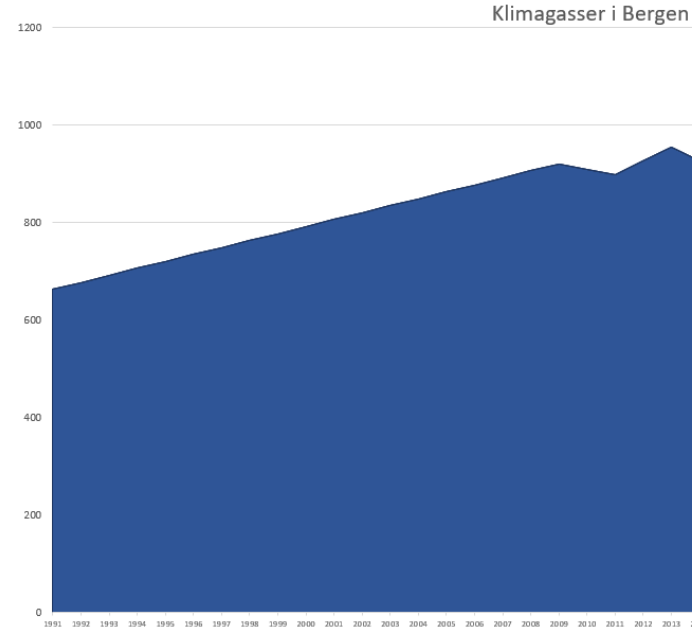
BERGEN  
KOMMUNE

# A FOSSIL FUEL FREE CITY

Elisabeth Sørheim & Are Børjesson

# «The only way is up»

- + 44 % 1991-2013 in direct emissions from Bergen
- Transport from 54 % (1991) to 68 % (2018) of total



# GRØNN STRATEGI

## Immediate goal

Reverse the trend of increasing emissions

## Overall goals

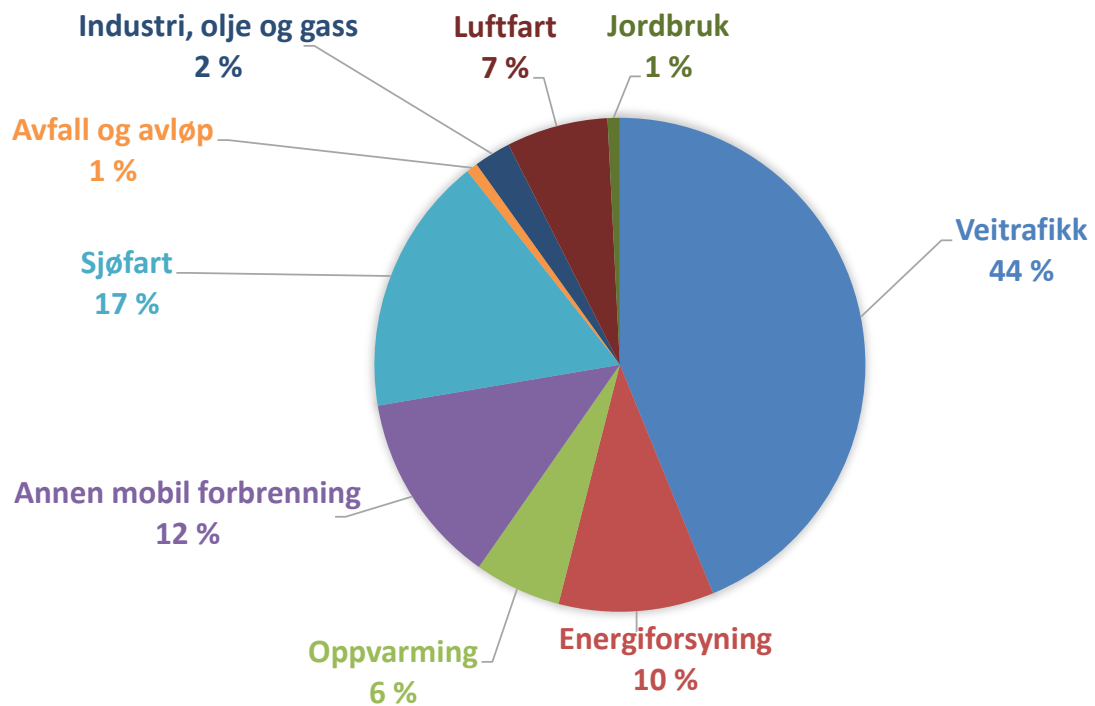
2020: 30% reduction in CO<sub>2</sub> emissions compared to 1991

2030: Fossil free city  
(direct emissions from coal, oil and gas)

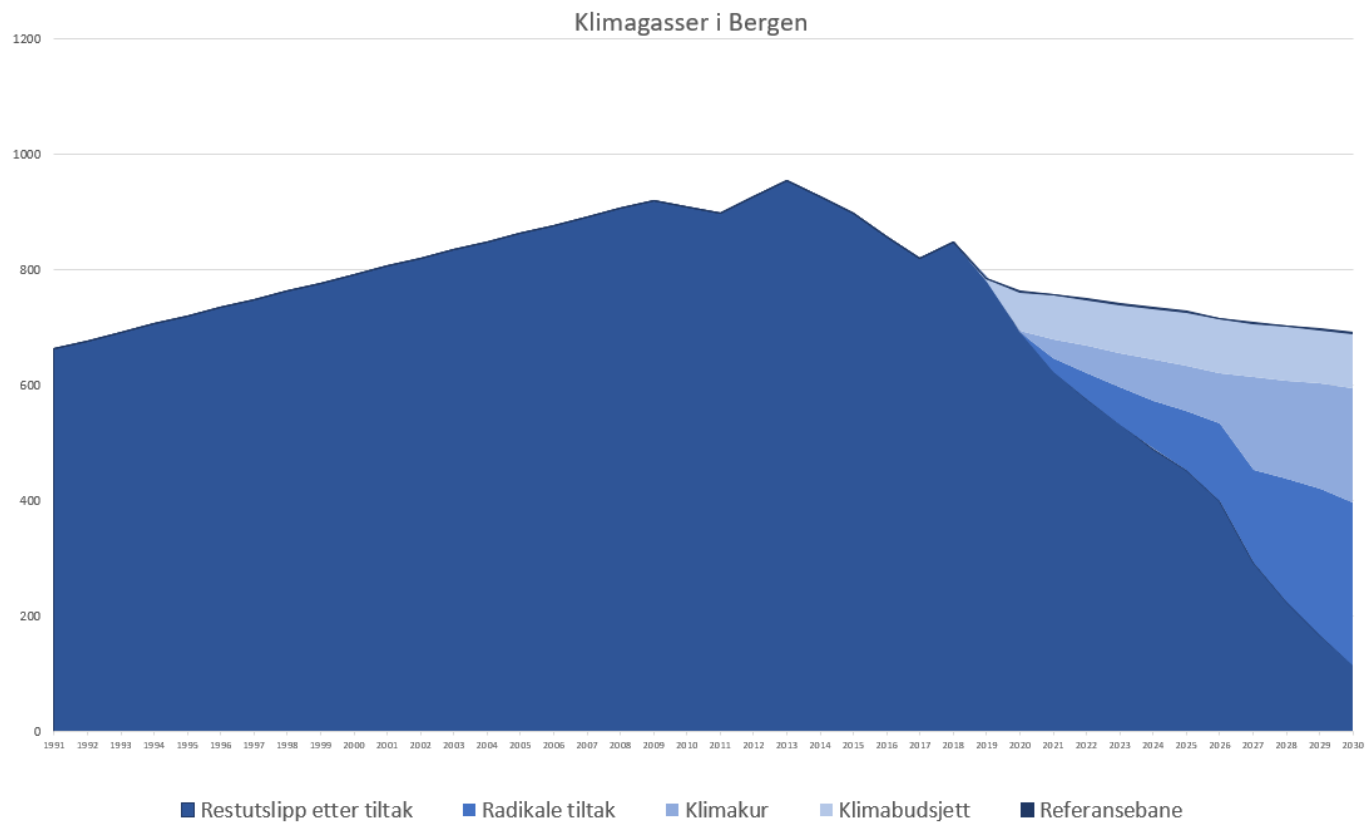
2050: Sustainable city.  
Live up to 1,5 degree goal in UN



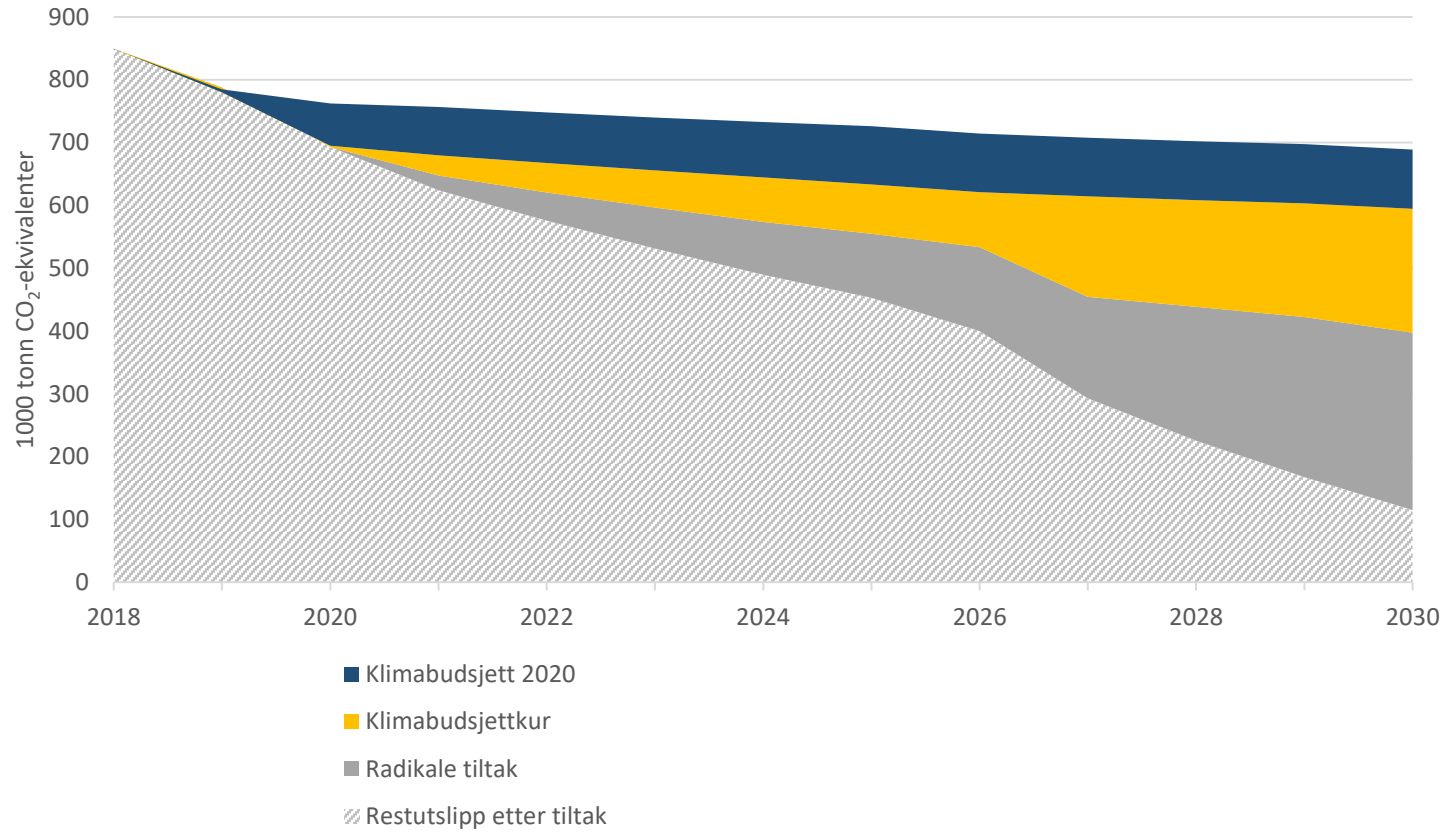
## KLIMAGASSUTSLIPP I BERGEN I 2018



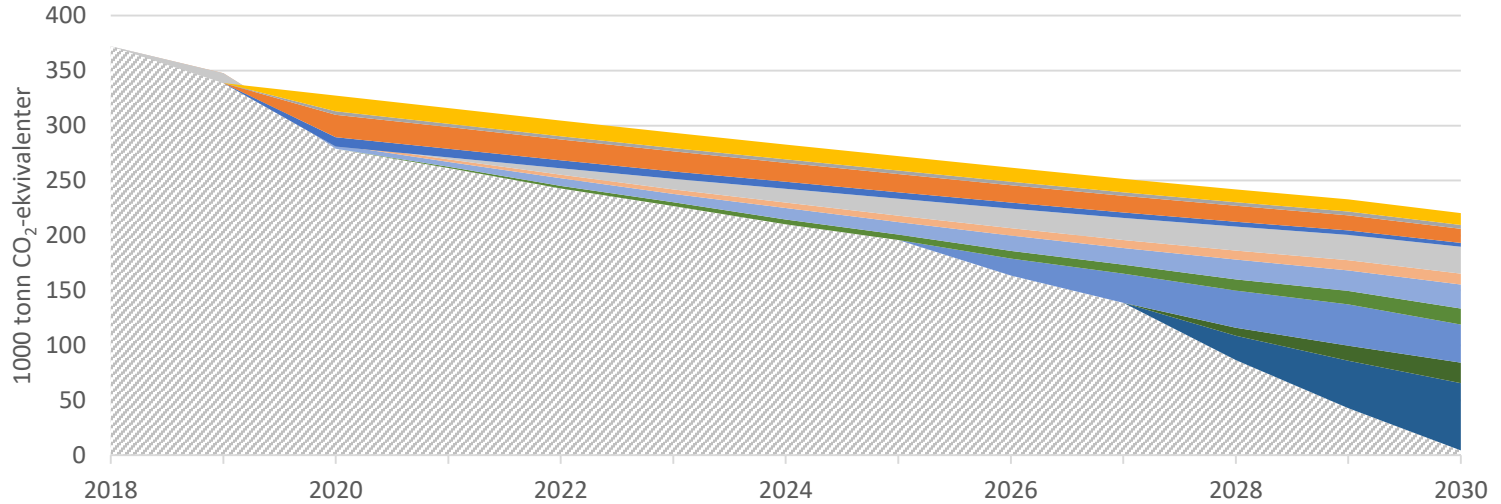
# Looking towards 2030



## Effekt av tiltak per mulighetsscenario



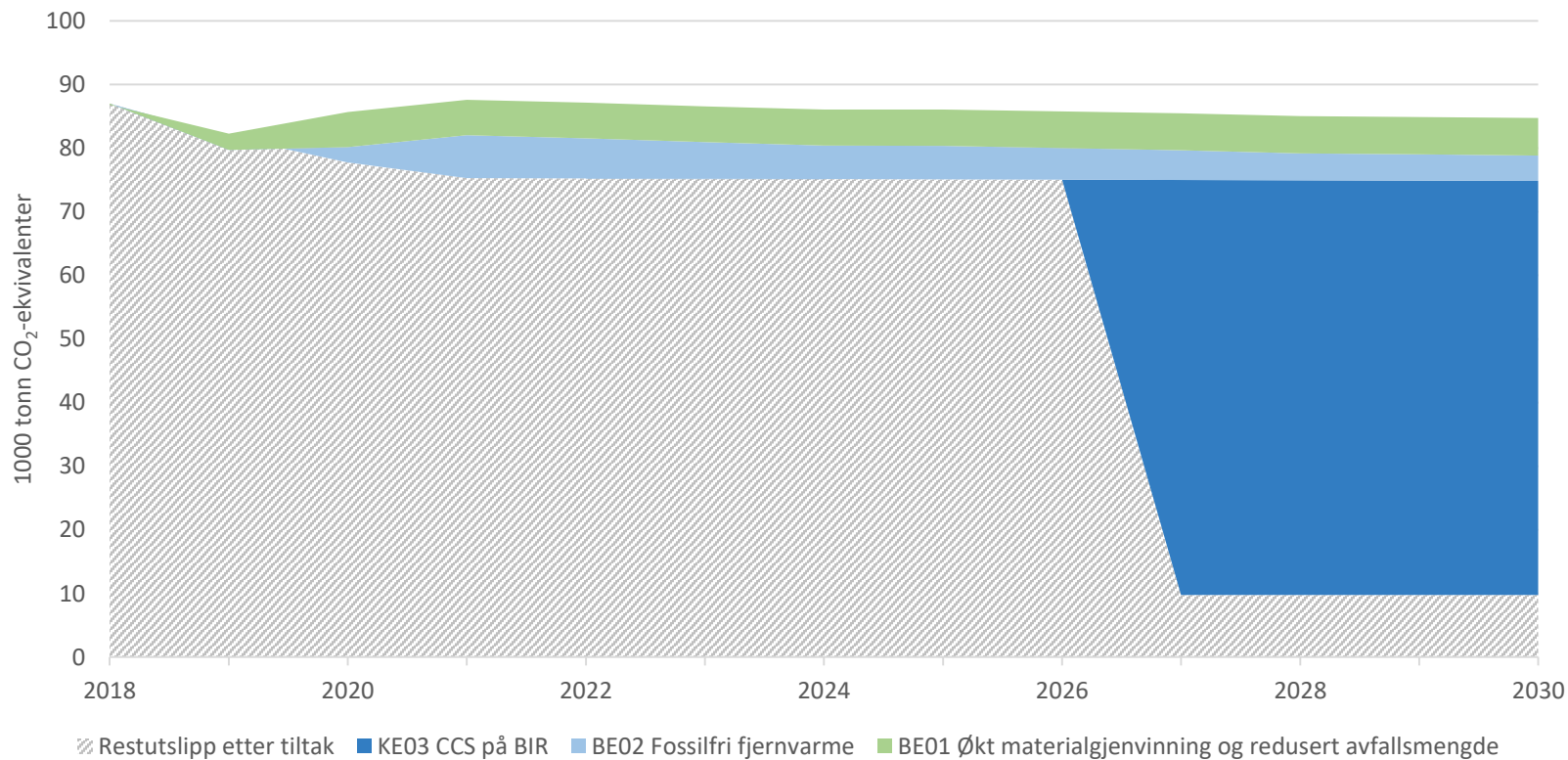
## Effekt av tiltak for veitrafikk



- BT01 Fossilfri kollektivtransport, fylkeskommunale tiltak
- BT02 Lavutslipps avfallstransport
- BT05 Samletiltak i veitrafikk
- BT07 Vridning av personbiltrafikk, fylkeskommunale og kommunale tiltak
- KT05 100 % av nye personbiler er elektriske i 2025
- KT06-KT07 Null- og lavutslippstiltak for varebiler
- KT08-KT12 Null- og lavutslippstiltak for tunge kjøretøy
- KT13 Økt bruk av avansert flytende biodrivstoff i veitransport
- RT01 Påbud om fossilfrie personbiler
- RT02 Påbud om fossilfrie varebiler
- RT03 Påbud om omlasting av varer eller fossilfri tungtransport
- Restutslipp etter tiltak

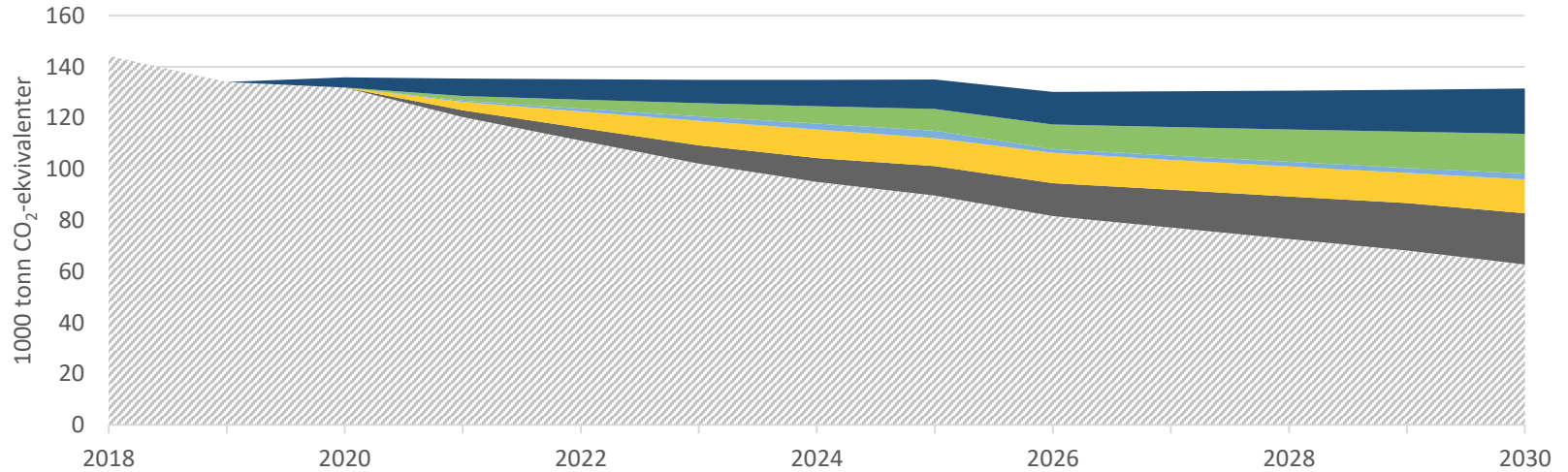


## Effekt av tiltak for energiforsyning





## Effekt av tiltak for sjøfart



- BS01 Utslippsfri havn
- KS03 Bruk av avansert biodrivstoff til skipsfart
- KS04 Landstrøm
- KS05-KS12 Null- og lavutslippstiltak for skip
- RS01 Påbud om bruk av landstrøm for skip med fossil energiforsyning
- ▨ Restutslipp etter tiltak



# Instruments and means

- Byvekstavtale/Miljøløftet
- Tydelig politikk som kommuniserast
- Klimabudsjett
- Tilskuddsordning
- KPA og Plan og byggninngsloven som klimaverktøy, klimagassberekningar



# Byvekstavtale – Miljøløftet

- From 2019 to 2029
- 16 bill for investment in the Bergen area till 2029
- Cooperation: The State, The County, The City and municipalities around Bergen and the inhabitants
- Build: Bybane, cycling paths, safer roads
- Better transportation system for everyone
- Main goal: To reduce climate emissions, traffic jam, air pollution and noise through effective land use and that increase in passenger transportation is done with public transportation, cycling and walking

SAMMEN  
OM



## Miljøløftet

- Bergen
- Askøy
- Øygarden,
- Alver,
- Bjørnafjorden



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# The Climate Budget

- First budget made for 2018
- Only direct emissions
- The City's emissions
- The climate goals are compared to the list of measures
- Both quantified and non-quantified measures
- Learning process – Improvements from one year to another.
- The referansebane and the scenarios will give a better or more accurate budget in 2022



## Aim

- Effect of measures and goal achievement
- The City's work on climate shall be visible
- Climate is a part of the budget process
- The right people have the responsibility



<https://pub.framsikt.net/2021/bergen/bm-2021-hop2124-inn1brg/#/generic/summary/climatesummary>

# Tilskuddsordninger

aid to make  
things happen

## For NGOs

- Tilskudd til miljøorganisasjoner (environmental NGOs) (4 mill)
- Klima- og miljøtilskudd (1 mill)
- Stiftelsen Lystgården (459 000)

## Charging stations for:

- Borettslag og sameiger (housing cooperative) (2,5 mill)
- El-taxi and El-van (2 mil)

- For Inhabitants to buy electric bikes (1 mill)
- businesses to buy electric cargo bike (1 mill)
- Urbane gardening (100 000)
- Climate measures at cultural- or spots events (1,5 mill)
- Green business development (1 mill)
- Old woodburning stoves and paraffine heaters → new stoves or other renewable heating



# KPA and the Demand for Climate gas calculations

Why we want climate gas calculations?

- Give the developer a basis for climate assessment
- Give a basis for discussions between the city and the developer
- Find the best solutions for low emission
- Give statistics as a basis for more knowledge in a few years



# New Climate strategy

Main goals – the same as before

## Aim

- Step up the work to reach our goals
- give a clear direction of where the City is going and what the City wants
- create cooperation with key players in Bergen to reach the goal

## The way to go:

- Identify climate gas emissions and how to reach zero
- Cooperation with national government, the county, business, academic institutions
- External participation - spring 2021
- Finished 2021/2022

