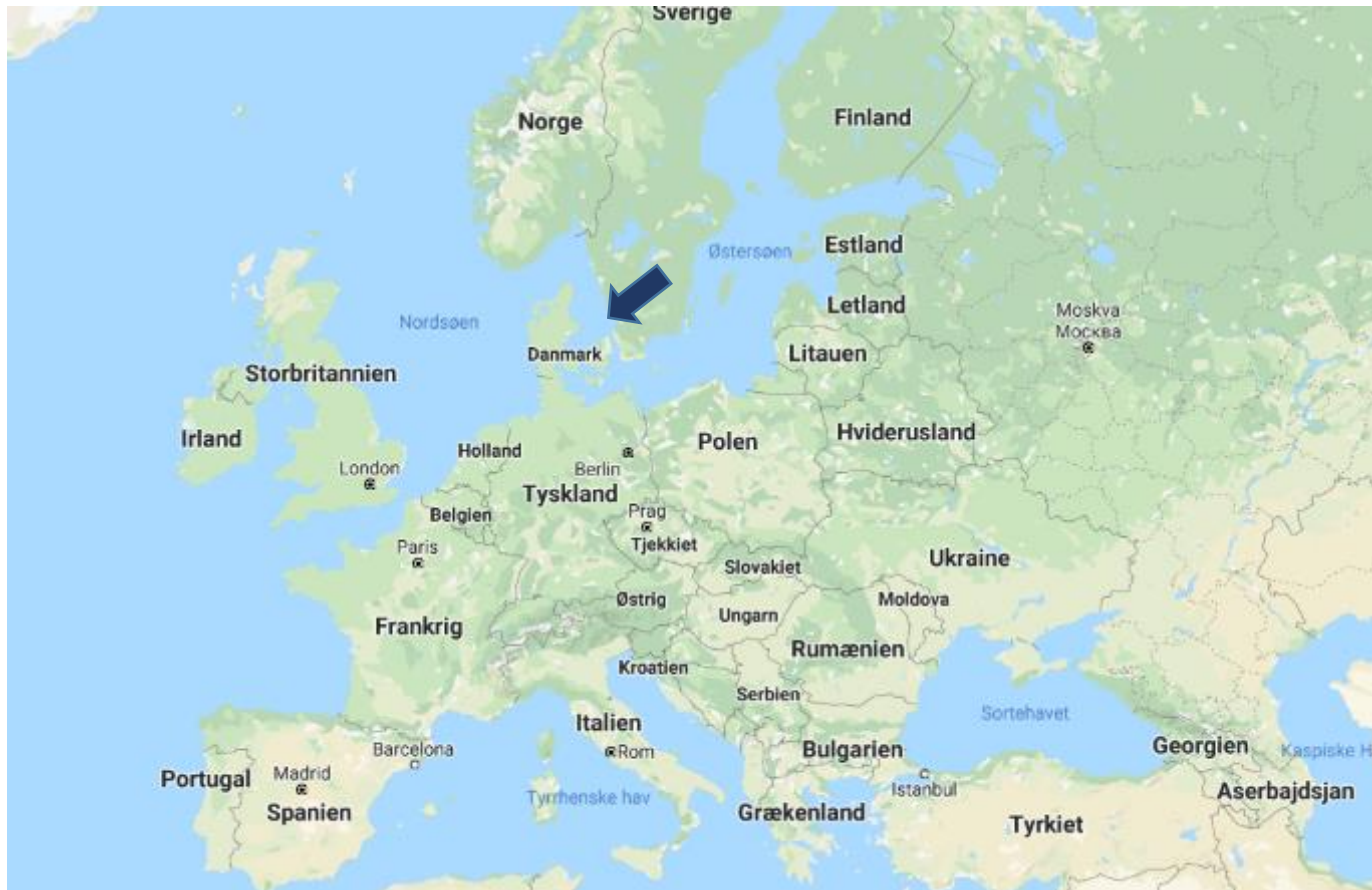


Vision 2030 for Elsinore Municipality - Denmark

Climate and sustainability planning











Karen Marie Pagh Nielsen
August 27th, 2020

The world's largest electric ferry

- The ferry that goes between Elsinore and Helsingborg in Sweden is operating completely on battery power
- It is currently the world's largest electrical non-fossil fuel ferry.



Danish and EU climate goals and obligations

Goal concerns	Obligation/goal	Assessment
Objectives for 2050		
 Climate gas emissions	Net-zero emissions no later than 2050	●
Objectives for 2030		
 Climate gas emissions in the whole economy	Reduction of 70 pct. from 1990 to 2030	●
 Greenhouse gas emissions in the non-quota sector	Reduction of 39 pct. from 2005 to 2030	●
 Share of renewable energy of the final energy consumption	55 pct. in 2030	●
 Share of renewable energy in the transport sector	7 pct. in 2030	●
 Phasing out of coal	No use of coal in production of electricity by 2030	●
 Carbonpool in soil and forest	Must be maintained	●
 Energy savings	New saving of 0.8 pct. every year until 2030	●

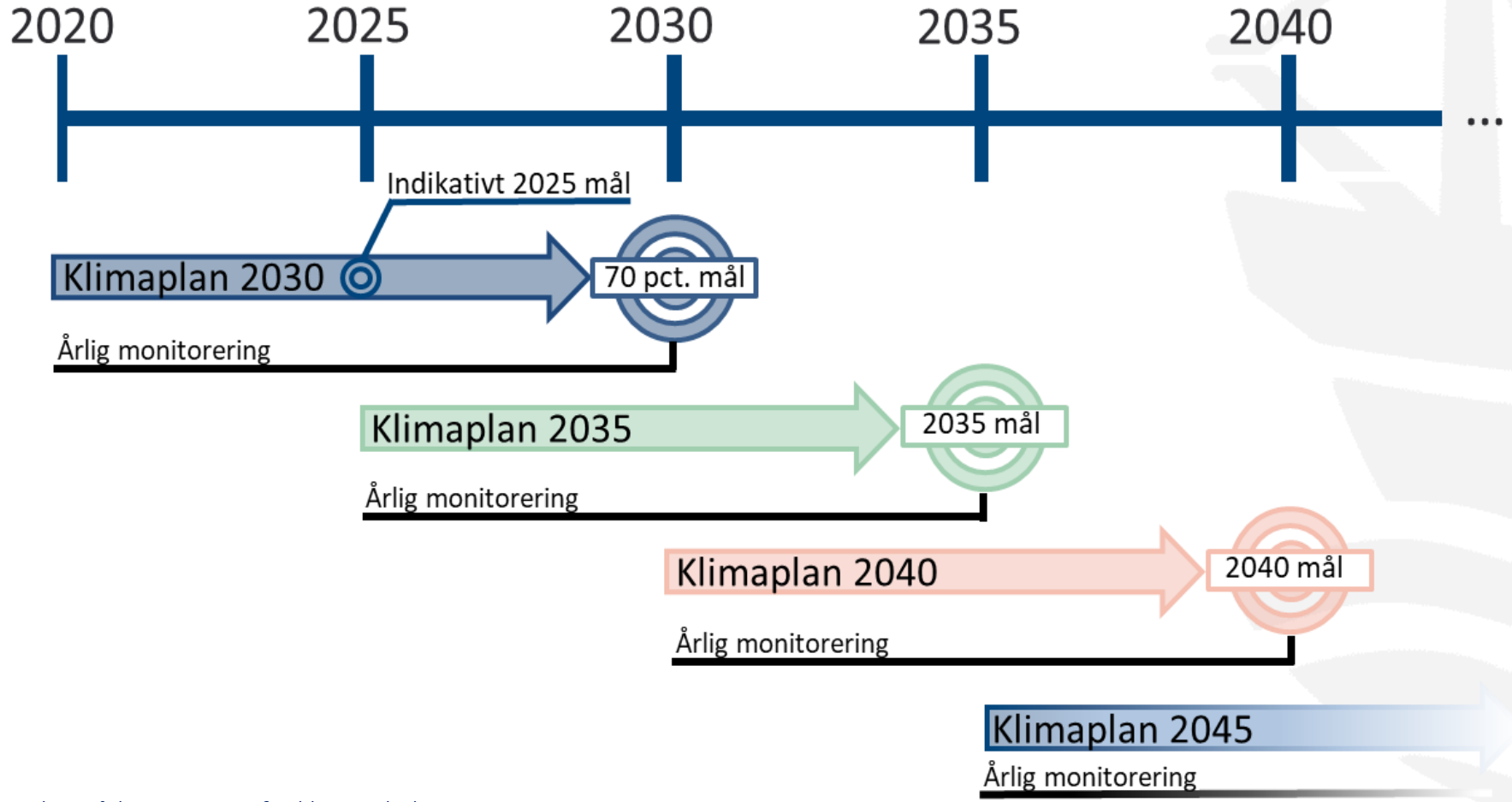
● Objective is fulfilled/expected to be fulfilled with the decided measures

● Objective can be fulfilled, but calls for further measures

● Objective can no longer be fulfilled

Source: Klimarådet 2020, Energy Forum DK

New climate law sets the framework for Danish climate politics



The new climate law was adopted by the Danish parliament on December 6th 2019

Source: Klimarådet 2020, Energy Forum DK

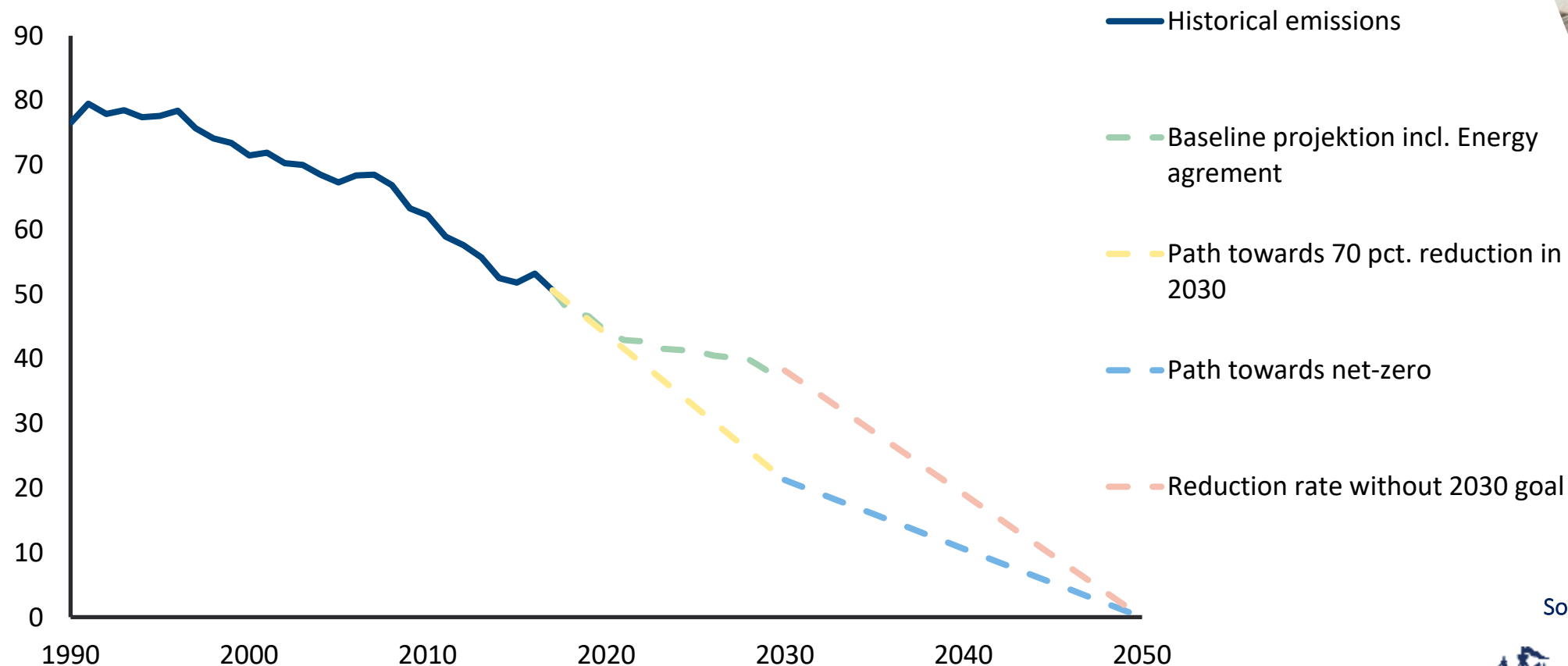
Source: Klimarådet, *Rammer for klimapolitik*, 2019.



The Danish climate goals: 70 pct. reduction in 2030 and climate neutrality in 2050

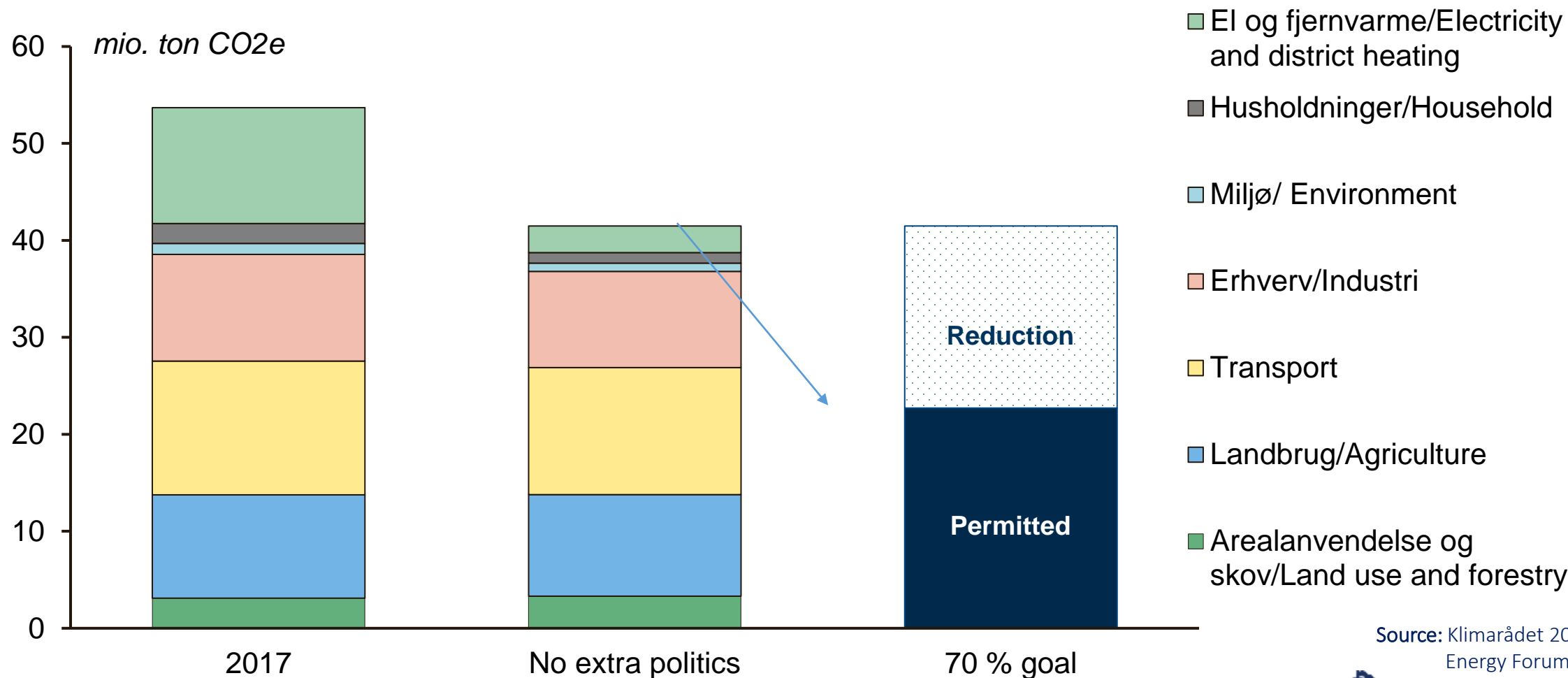


Mio. ton CO₂-equivalents



Source: Klimarådet 2020, Energy Forum DK

All sectors must contribute with significant reductions



Source: Energistyrelsen, Basisfremskrivning 2019.

Source: Klimarådet 2020,
Energy Forum DK

Recommendations from Klimarådet

(The National Climate Council - An independent expert committee)

- Recommendations for means, that can get started here and now?
- How do we get all the way to 70% reduction by 2030, and to 0 emissions in 2050?
 - Further reduction of the electricity heating tax?
 - Future net-tarifs? (Temporal and geographical differentiation?)
 - Tax on non-climate-sustainable biomass?
 - Higher price on CO₂-emissions?
 - Other regulation?

Source: Klimarådet 2020,
Energy Forum DK



The Municipality of Elsinore

40 km north of Copenhagen

62.000 inhabitants

The municipality covers an area of 122 km²

3,2 tons CO₂ emissions per person pr year (2019)

DRIVHUSGASUDLEDNING PR. BORGER Greenhouse Gas Emissions per capital

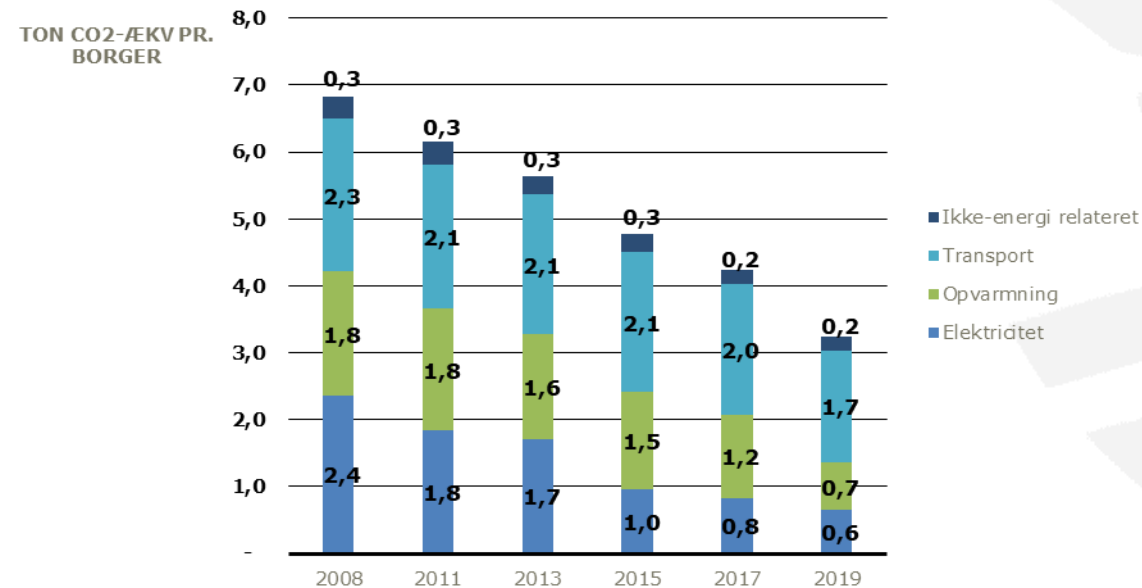


Figure GHG emission per citizen per year in Elsinore Municipality 2008-2019 (Rambøll, 2020)

Karen Marie Pagh Nielsen
August 27th, 2020

Actions pushed by goals and agreements

- Climate Plan 1.0 (2009)
- **Climate Plan 2.0 (2019)**
 - To reduce emission of CO₂ to less than **1,7 ton per** inhabitant per year by **2030**.
 - To be **CO₂-neutral** by **2045**
 - To adapt to the expected climate change
- Agreement with Danish Nature Conservation Association (NGO) – 2% reduction in CO₂ emission per year, until 2025 (base 2007)
- Agreement: (Global) Covenant of Mayors (European Commission) 2011 –
- Regional Climate Strategy (more ambitious than the national plan)

2020-2021: Political focus through a special Climate Committee with politicians and local experts



Climate work in Elsinore Municipality

Framing of the Plan for Climate and Sustainability in Elsinore Municipality



Vision 2030



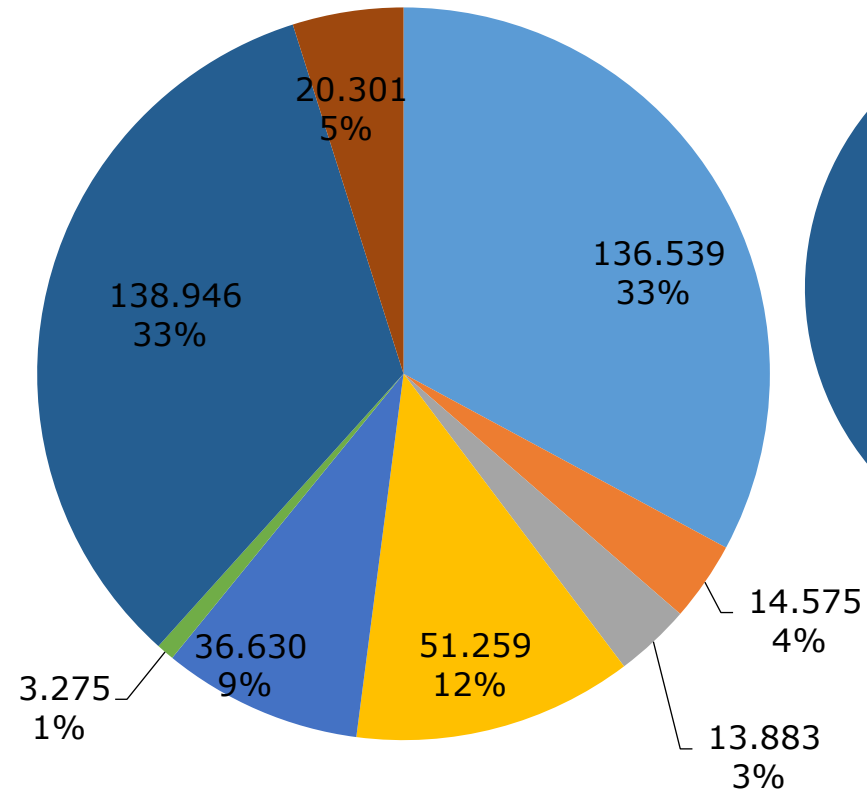
- The Visions overall goal is sustainability
- There are five focus areas, including climate
- Approved June 24th 2019



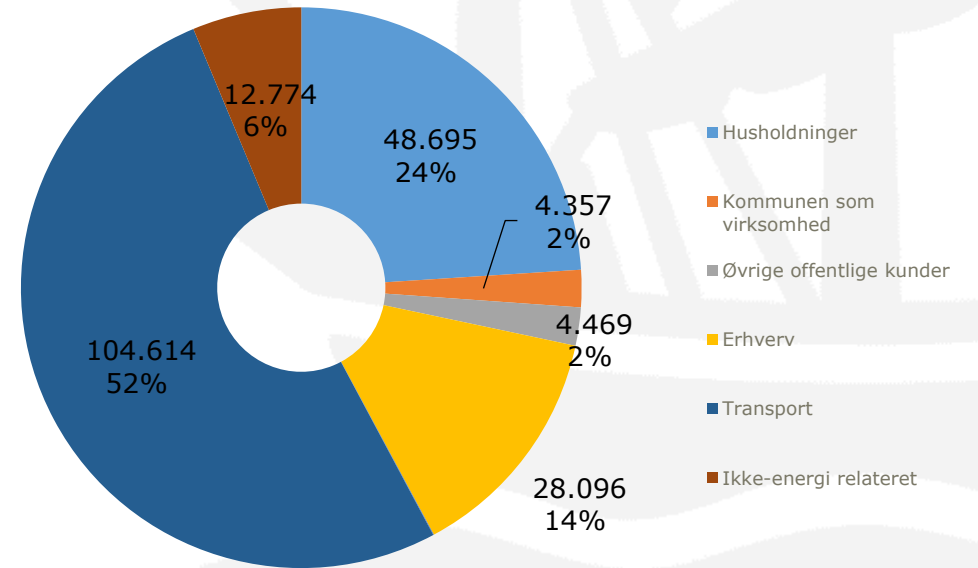
The climate impact, Elsinore 2008-19

264.729 tons all together – 3,2 ton/citizen/year (2019)
(Greenhouse Gases converted to CO₂ equivalents) Source: Rambøll 2019

CO_{2e} emissions 2008



CO_{2-ÆKV} EMISSIONER 2019 FORDELT PÅ SEKTORER





Plan for Climate and Sustainability 2020-2030

<https://www.helsingor.dk/media/14707560/plan-for-klima-og-baeredygtighed-2020-2030.pdf>

- Approved by Elsinore City Council on December 16th 2019
- Input from citizens early/+ public hearing

Main Goals

- Reduction of 1.7 ton CO₂ pr. citizen in 2030
- CO₂-neutral by 2045

11 subgoals for 2030 (agreed by the City Council)

Activities (possible initiatives, can be supplemented)

One-year activity plans

Presented to the City-, Plan- and Environment Committee, first quarter of every year.



Karen Marie Pagh Nielsen
August 27th, 2020

Plan for Climate and Sustainability 2020-2030

Main Goals

- Reduction of 1.7 ton CO2 pr. citizen in 2030
- CO2-neutral by 2045





11 SUBGOALS FOR 2030



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August 27th, 2020

Initiatives





Example: Sustainable transport

Type	Initiative	Responsibility	Time horizon	Price	Sustainability Goal
New calls for bids of bus services	Bus services are converted to electricity	Elsinore Municipality / The Capital Region / Movia	Continuous from 2020	7.600.000**	
Infrastructure	Plan for expanded infrastucture with charging stations at parking lots, workplaces etc.	Elsinore Municipality / Center for By, Land og Vand	Continuous from 2020	100.000	
Campaign	Facilitate the opportunity to test an eletric car, to spread the knowledge of electric cars	Elsinore Municipality / The Climate Secretariat	Continuous	50.000	
Cyclist plan	Plan which can ease and promote cycling as means of transport in the municipality	Elsinore Municipality / Traffic and roads	2020-2030	8.000.000*	

*is part of existing budgets **budget request has been made

Initiatives

Example: Education, teaching and behaviour

Type	Initiative	Responsibility	Time horizon	Price	Sustainability Goal
Input for teaching	Support for teaching with schools and youth education. Provide projects, guest presentations and knowledge.	Elsinore Municipality, Forsyning Helsingør	2020 -	50.000*	
Demonstration	Make showcases for sustainable energy at the municipalities own institutions	Elsinore Municipality (By, Land og Vand)	2020 -	60.000	
Campaigns	Informations campaigns about climate and climatic behaviour	Elsinore Municipality	2020 -	80.000*	
School gardens	Support for initiatives with school gardens, where children can learn about nature, climate and food products	Elsinore Municipality (Public day-care facilities and schools)	2020 -	-	

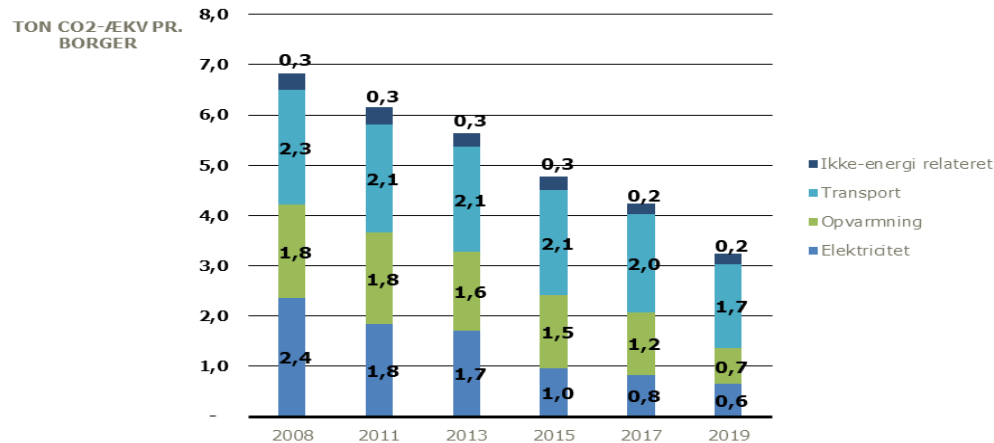
*is part of existing budgets

Reduction path toward 2030

How do we reach 1.7t CO₂/citizen in 2030?

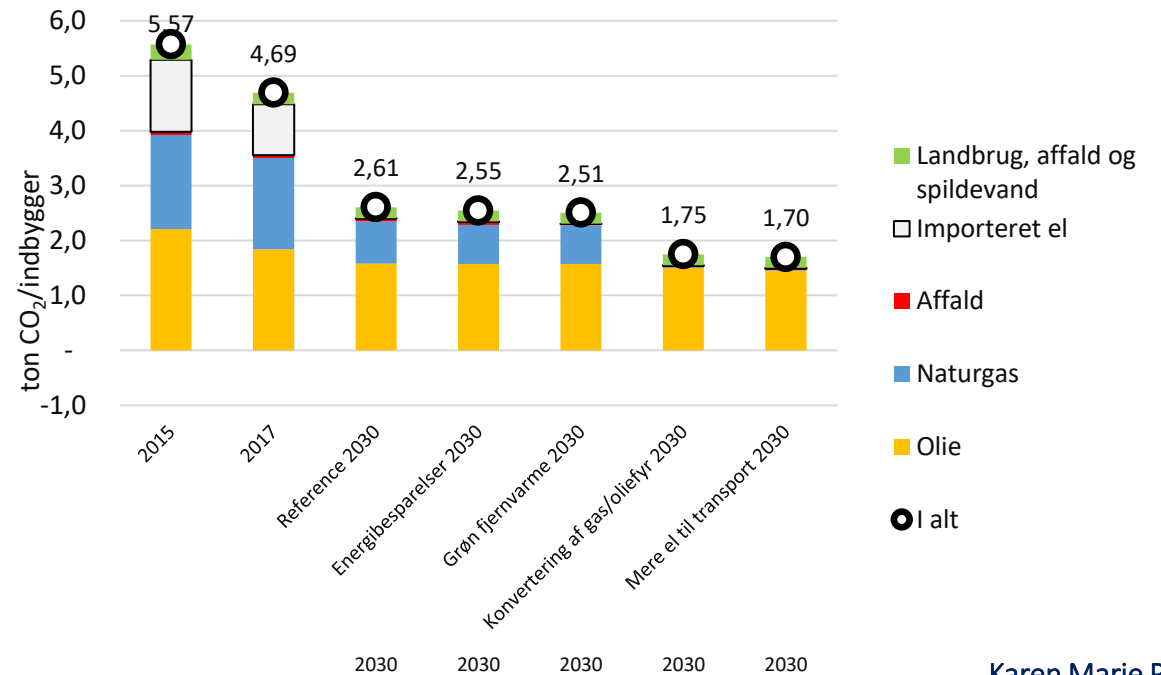
Illustration of which focus areas, that can lead to a CO₂ emission of 1.7 ton pr. citizen in 2030

DRIVHUSGASUDLEDNING PR. BORGER



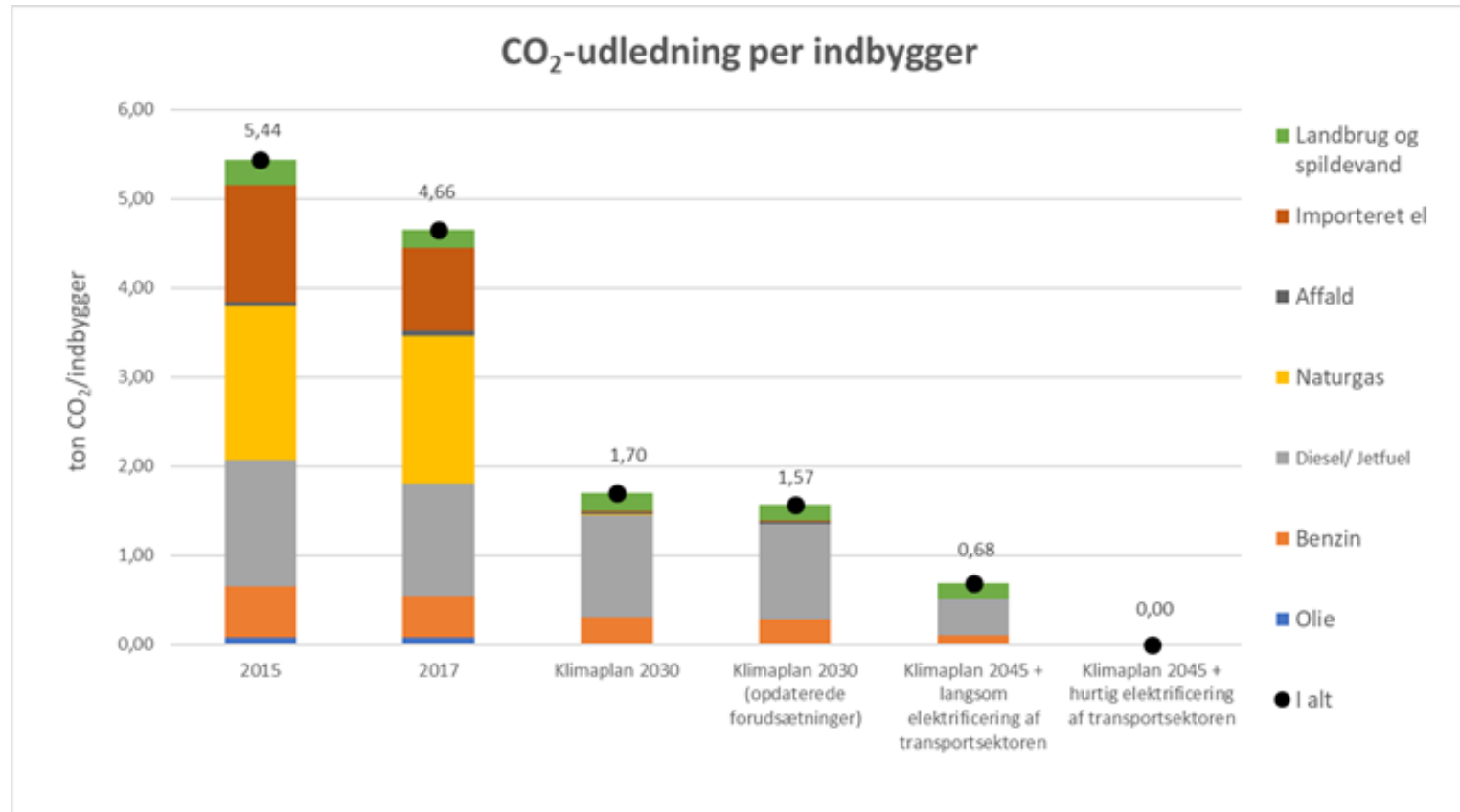
Drivhusgasudledning per borger i Helsingør kommune i perioden 2008-2019. (Rambøll, 2020)

- Greenhouse gas emissions er decreasing, from 6.8 in 2008 to 3,2 ton/citizen/year in 2019
- Result: CO₂ reduction of 45% over the past 11 years (since 2008)



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August 27th, 2020

Reduction path toward 2045



Figur 1 CO₂-emissions per citizen in the different scenarios (Ea Energianalyse, 2020)

- Please note the great CO₂ reduction, that comes from replace oil and gas furnaces, and by the transition of the transport sector.
- Scenario three is the expected status in 2030, with the Plan for climate and sustainability 2020-2030 and the updated conditions
- Scenario four and five represent two scenarios in 2045, which are dependent on state policies on the transition of the transport sector.

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August 27th, 2020

Budget is important! Supplementary climate budget 2020

- 3,2 mio. DKK. pr. yr. for 4 years (2020-2023)

Supplementary climate budget 2020 (Initiatives suggested by all administrative areas)	Budget in DKK.
<i>Budget area 201 Environment, Nature and Climate:</i>	
1. Analysis: Overview of climate adaption needs and cloudburst management	250.000
2. Analysis of ocean rise and consequences for the city center	250.000
3. Plan for Climate and Sustainability 2020-2030	350.000
4. Climate “package” for housing associations	250.000
5. Climate compensations – Politician’s flights	5.000
6. Option Catalogue – Surface water handling in Hornbæk West	250.000
<i>Budget area 619 Care and the Elderly:</i>	
7. Electric cars in home care (extra cost)	150.000
<i>Budget area 825 Properties and Building improvements:</i>	
8. Planting of trees near schools and institutions	125.000
9. Electric cars in the property service (extra cost)	20.000
<i>Budget area 826 Administration:</i>	
10. Electric cars in the administration (extra cost)	20.000
11. Campaign/Information on green procurement policy	30.000
Total	1.700.000

Karen Marie Pagh Nielsen
August 27th, 2020

Energy renovation

Energy check for private homes

- Energy checks provides the citizens of Elsinore municipality with recommendations on how to energy renovate their homes.
- Every year during the heating season, a campaign is carried out, addressing homeowners or management of apartment buildings directly.
- Typically, 90-120 homeowners accept the offer at least 40% follow the recommendations given.





Well educated local craftsmen, specialized in climate solutions.
A special education was designed by the municipality



ONE PLANET LIVING

- In 2018, Elsinore Municipality became part of the One Planet Living project, which aims at disseminating 10 One Planet Principles to citizens and businesses, locally. The One Planet principles are based on the Millennium Sustainability Development Goals, and they are all relevant to the municipal level.
- Bioregional (UK) is the initiator of the project, which also includes municipalities in Canada, England and South Africa.
- Through this project, Elsinore municipality reaches out to businesses and institutions to achieve citizen involvement for the purpose of sustainability.



RÅDET FOR
GRØN OMSTILLING



DON'T WORRY, BIKE HAPPY



The municipal bicycle library 'Cykelteket'

Renting out bikes for free for citizens and employees



BIODIVERSITY PLAN 2019-2030

- Addresses citizens, municipal employees, businesses and institutions, and aims at increasing areas of nature and forest etc.
- Elsinore is a part of the European initiative Natura 2000



Callophorus Rubi



Helsingør Kommune / Elsinore Municipality

CDP Cities 2019

This snapshot report presents the score that Helsingør Kommune / Elsinore Municipality received for its response to the 2019 questionnaire. CDP uses the scoring methodology to incentivize cities to measure and manage environmental impacts. This report can be used as a tool for gaining an overview of environmental performance and how the city's response can be improved in the future. Responses are scored by CDP and CDP's scoring partner ADEC, using the [2019 CDP Cities Scoring Methodology](#). Scores are private to cities although CDP will recognize and reward the highest scoring cities.

Final overall scores

Final overall Score	Final overall Scoring band	Regional Distribution	Global Distribution
A	Leadership		

Scoring measures progress towards environmental stewardship



The bar chart above shows the count of scores achieved by cities in Europe. The score for Helsingør Kommune / Elsinore Municipality is shown in red.

The bar chart above shows the count of scores achieved by cities globally. The score for Helsingør Kommune / Elsinore Municipality is shown in red.

Adaptation and Mitigation Scores

CDP has broken down your response into two main themes: Adaptation and Mitigation to assess your city's climate action. Note, cities who do not receive an overall score in Leadership (A or A-) will not qualify for an A in their Adaptation or Mitigation score. For more information on which sections fall into each theme, please review the [Scoring methodology](#)

Adaptation
A



Mitigation
A

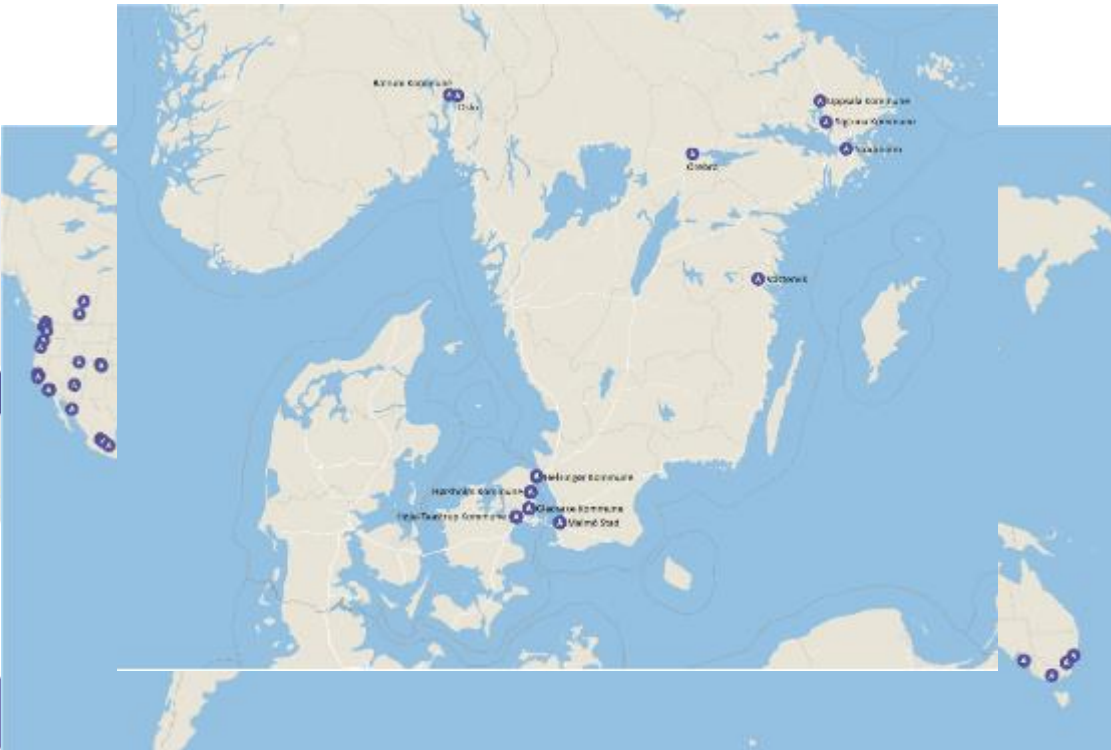


Cities preparing for, and adjusting proactively to, actual or expected impacts of climate change

Cities measuring and reducing emissions to enabling a move towards net zero

CDP

- CDP (Carbon Disclosure Project) is a non-profit organisation, who are working for cities (and others) to work for a better climate.
- Elsinore Municipality is on of 105 places in the world that are on the A list from CDP in 2019.
- <https://www.cdp.net/en/scores>





De byer og kommuner som har ansøgt European Green Leaf Award 2021

- Byer med 20.000-100.000 indbyggere
- Kriterier: klima, vand, biodiversitet, støj, mobilitet, luft, affald
- Afgørelse i april 2020

Questions/Discussion

