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Climate Budgeting in Aarhus Municipality

UBC TALKS, 2-12-2025

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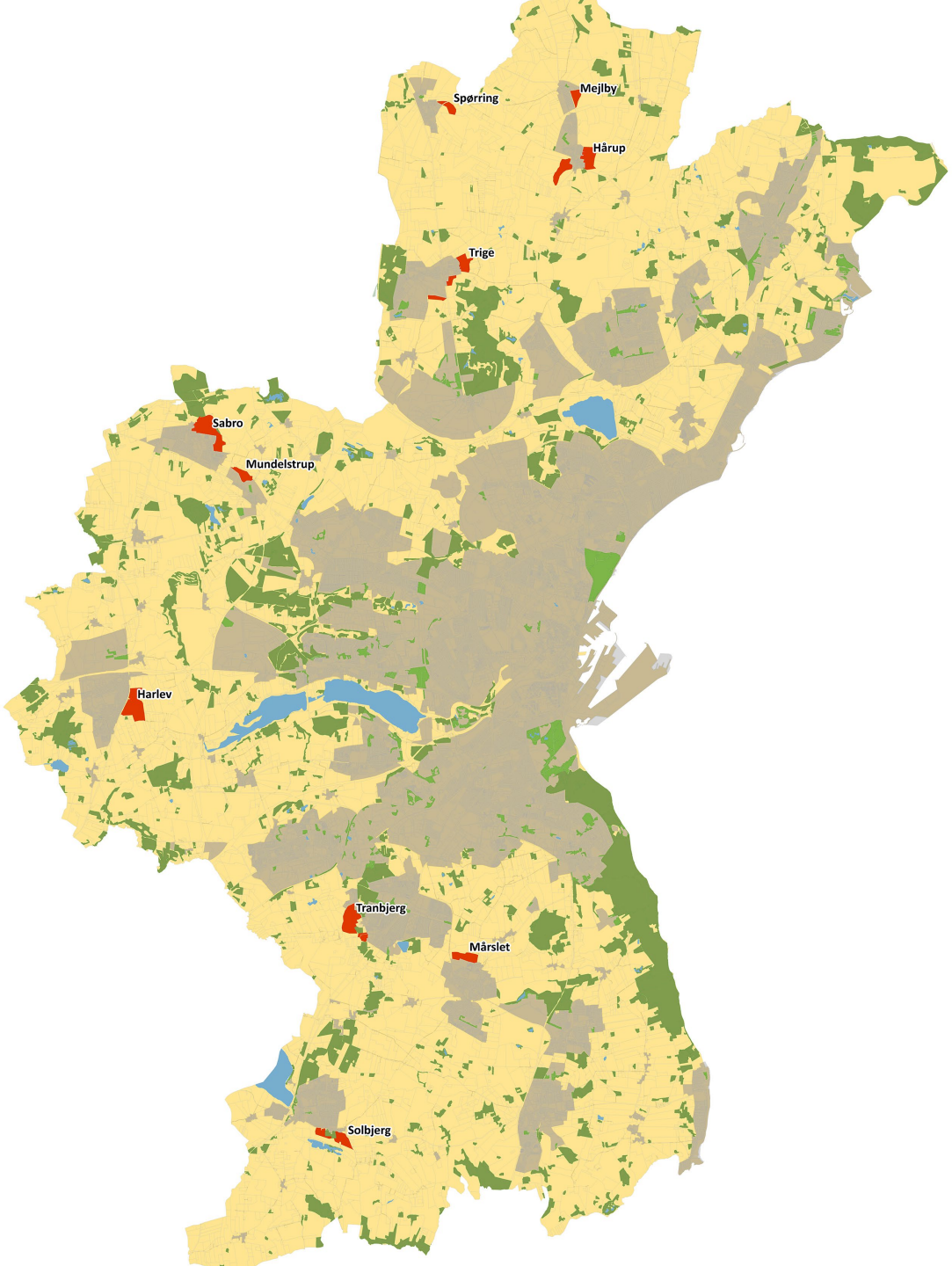
Agenda

Introduction to Aarhus' Climate Action Plan (CAP)

How we present and use emissions scenarios

How the CADS tool enhances data-informed decisions



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About Aarhus

Population approx. 375.000

Second largest city in Denmark

University city, implies a very young population

The municipality includes a large area outside the urban city, which includes smaller villages and agriculture

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Climate Action Plan

Aarhus has an ambition to be (net) climate neutral in 2030

Our new CAP from 2024/2025 shows a possible path no net zero in 2030

- In scope 1 + 2, as a territory and a company

Political focus on actual reductions projects

CO_2e emissions in Aarhus

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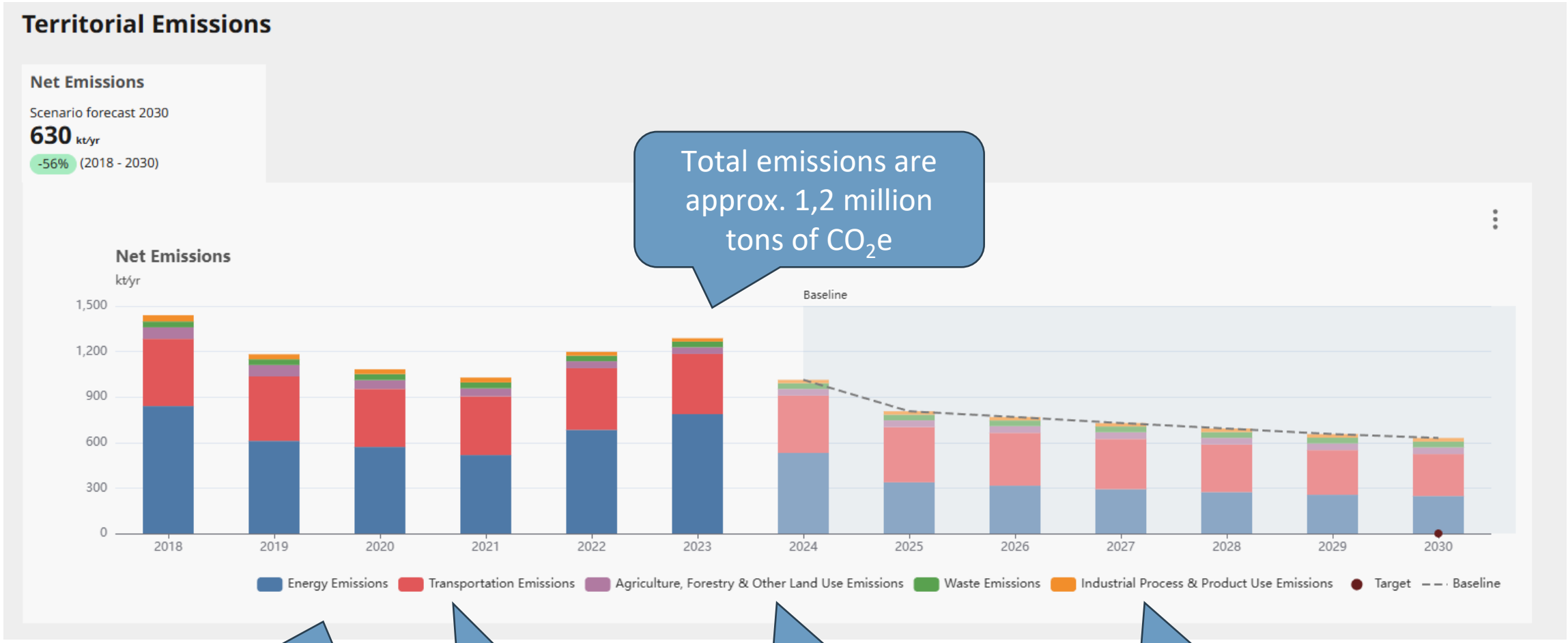

Total emissions are approx. 1,2 million tons of CO_2e

61% from stationary energy

31% from transportation

4% from AFOLU

4% from waste and IPPU

Emission scenarios

We put a lot of effort into calculating realistic and precise emission reductions scenarios

Usually 2030 estimates

A good Business-As-Usual (BAU) model is highly important

The BAU model is or main method of estimation

2030 reduction in scope 1 +2

Scope 3 reductions?

Portefølje

Indsatser i kommunen som samfund

Nr.	Titel	Årlig CO_2e-reduktion Scope 1-2 (tons)	Årlig CO_2e-reduktion Scope 3 (tons)	Samlet kommunal omkostning (kr.) ved 1 ton reduceret CO_2e i 2030
NL1	Omdannelse til skov og natur.	18.000*	-	-
NL2	Udtagning af lavbundsjord.	15.000	-	290
NL3	Klimatilsyn og klimahandleplaner.	4.000	-	330
NL4	Biogen energipark.	36.000**	6.000	30
I alt		73.000	6.000	-

* Effekten af at plante træer vurderes til at være omtrent 18.000 tons CO_2e i 2030, mens den maksimale effekt på omtrent 30.000 tons Co_2e forventes at være nået i 2040.

** Hertil 2.000 tons i forventet overskudsvarme, som tilskrives energidomænet.

Cost effectiveness: municipal cost per tons of CO_2e reduced

Aarhus's Path towards net zero

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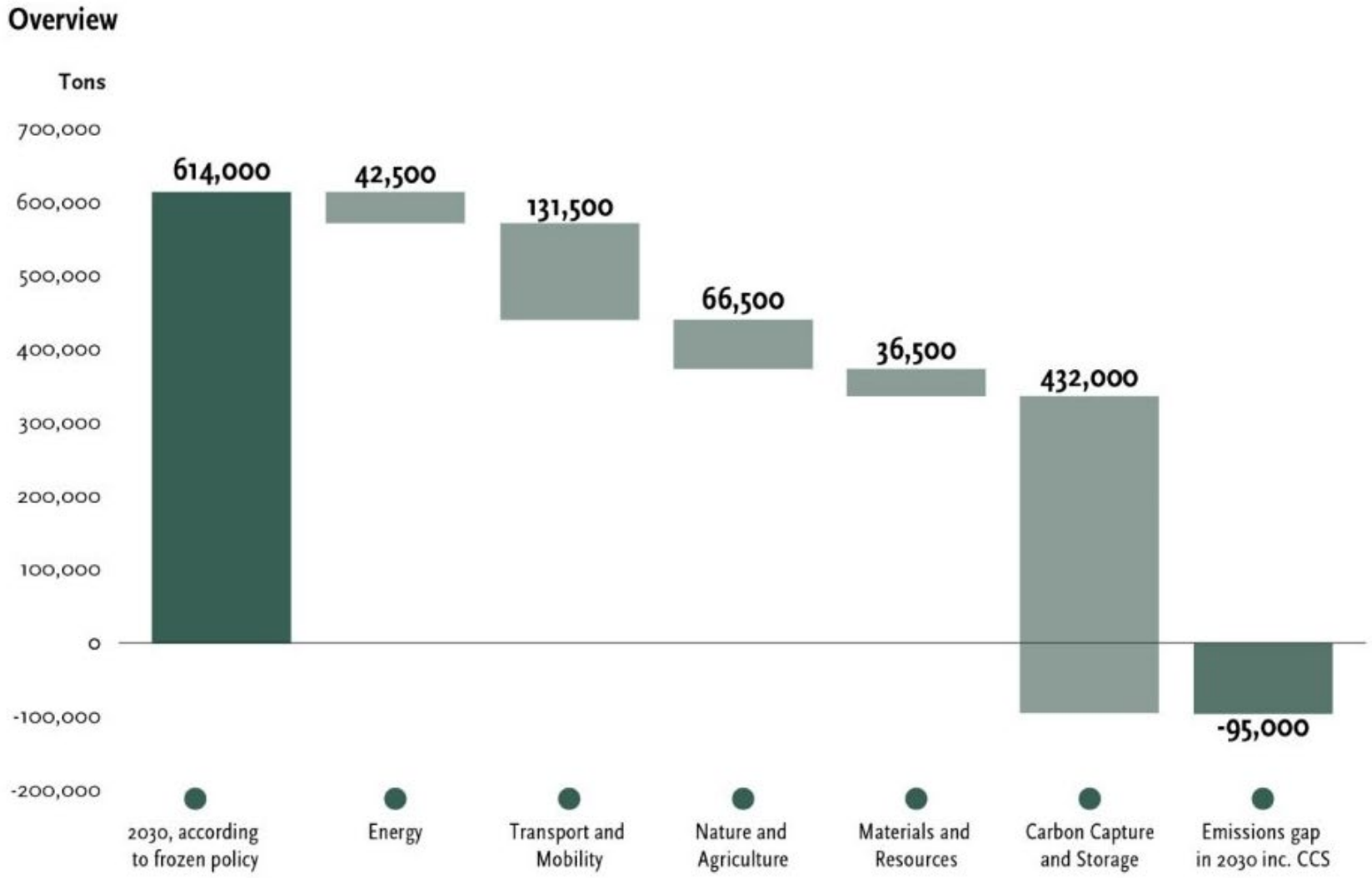

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Subsectors (2030)

Energy Emissions

Scenario forecast 2030

242 kt/yr

-71% (2018 - 2030)

Transportation Emissions

Agriculture, Forestry & Other Land Use Emissions

Waste Emissions

Industrial Process & Product Use Emissions

On-Road Transport Emissions

Scenario forecast 2030

201 kt/yr

Waterborne Transport Emissions

Scenario forecast 2030

71.2 kt/yr

Rail Transport Emissions

Scenario forecast 2030

3.35 kt/yr

Aviation Emissions

Scenario forecast 2030

1.18 kt/yr

Subsectors (2030)

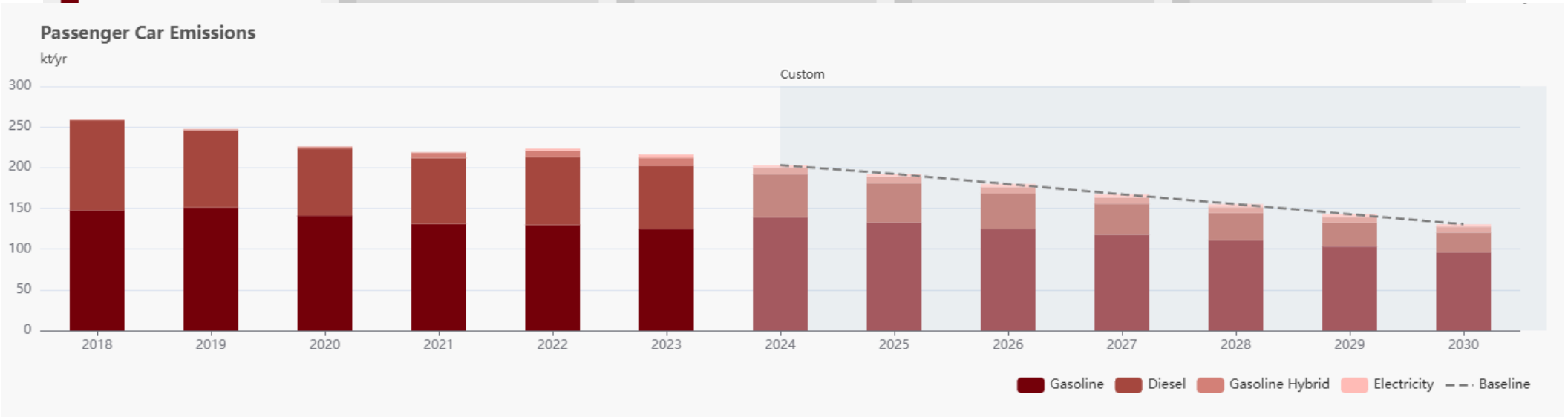
Passenger Car Emissions

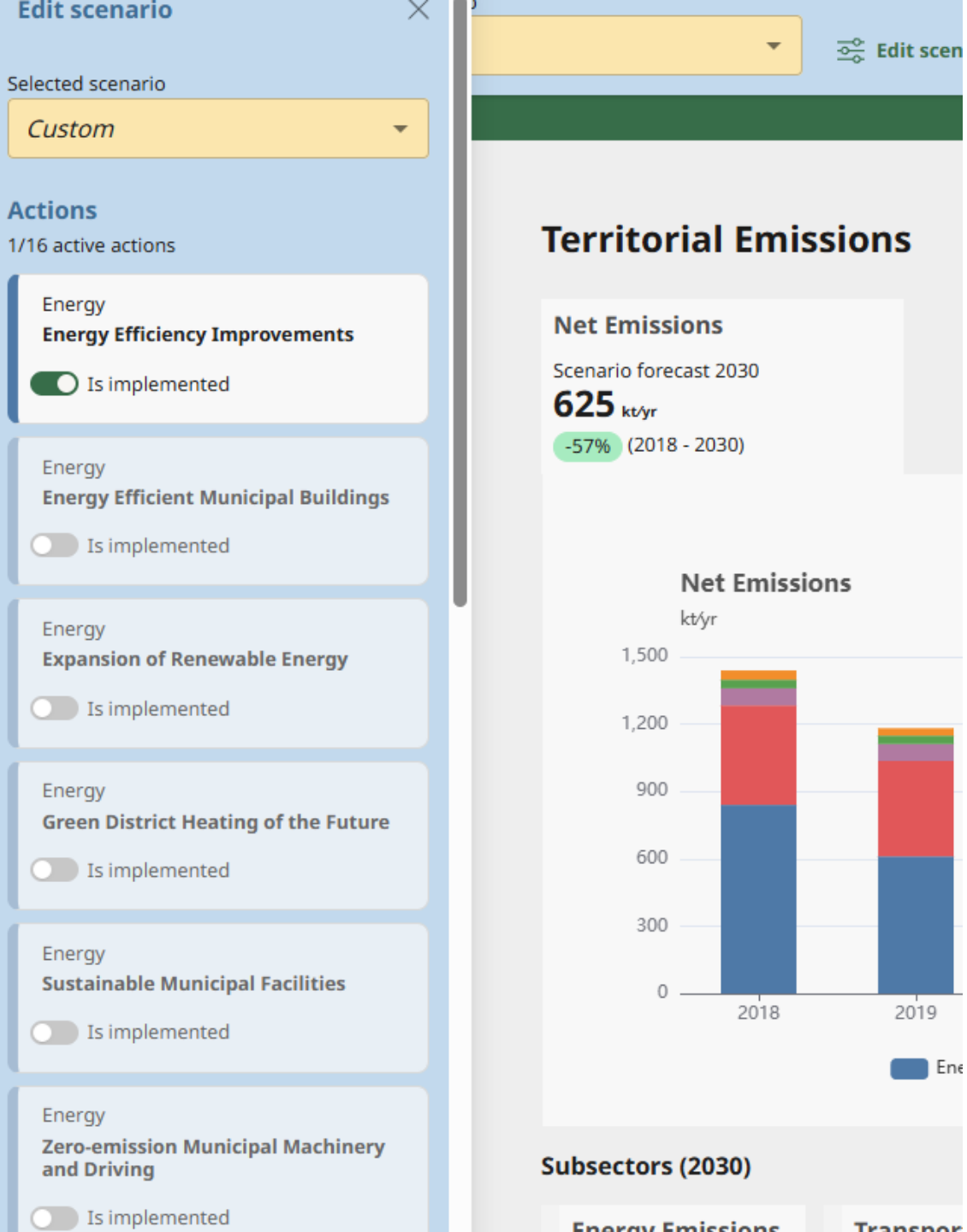
Van Emissions

Truck Emissions

Bus Emissions

Bicycle, Moped & Motorcycle Emissions



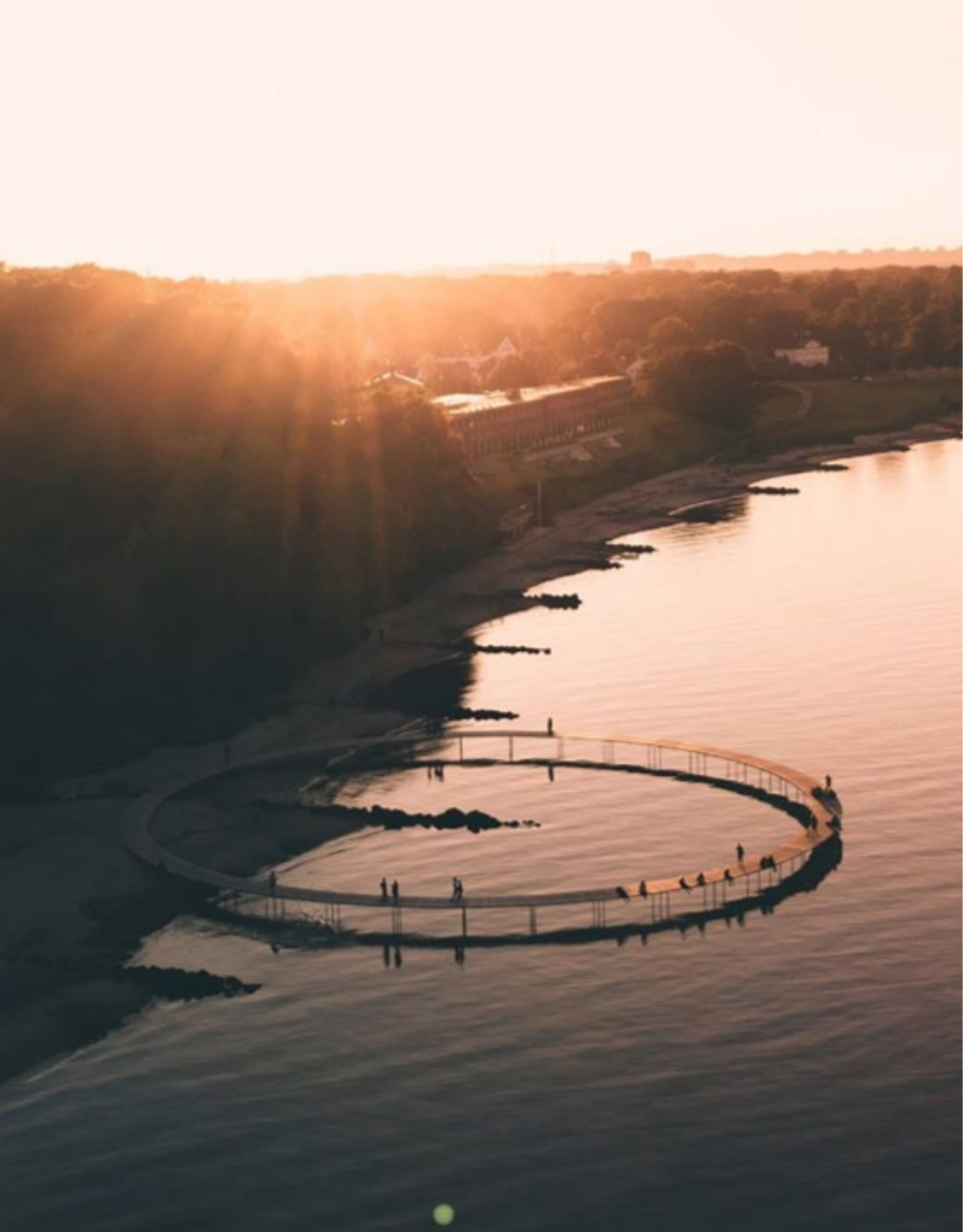


Actions in CADS

Currently we have 16 (soon 32) different actions in the tool

Possibility to order actions by cost-effectiveness

Possibility for all interested to make their own Climate Action Plan



Main purpose of CADS tool

Transparency and equal access to knowledge for all

Easy understanding and visualization of emissions

Easy to understand purpose and benefits off actions

Currently used by administration, maybe could be used in future political negotiations

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Thank you for your attention!
Questions?

Climate-4-CAST is a co-funded project by the Interreg Baltic Sea Region Programme 2021-2027