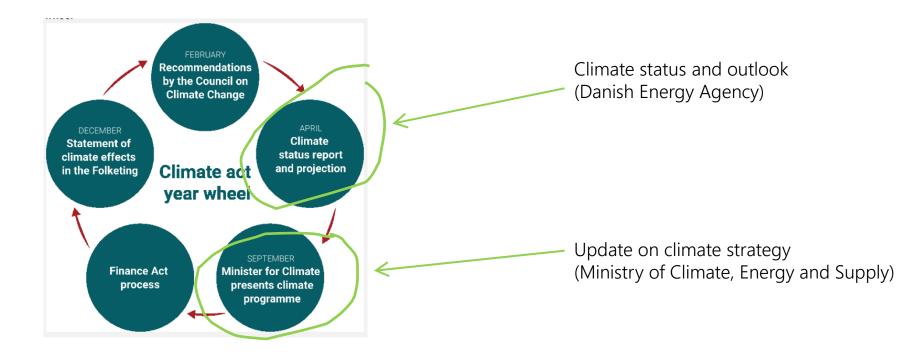


### Long term energy and climate scenarios in Denmark

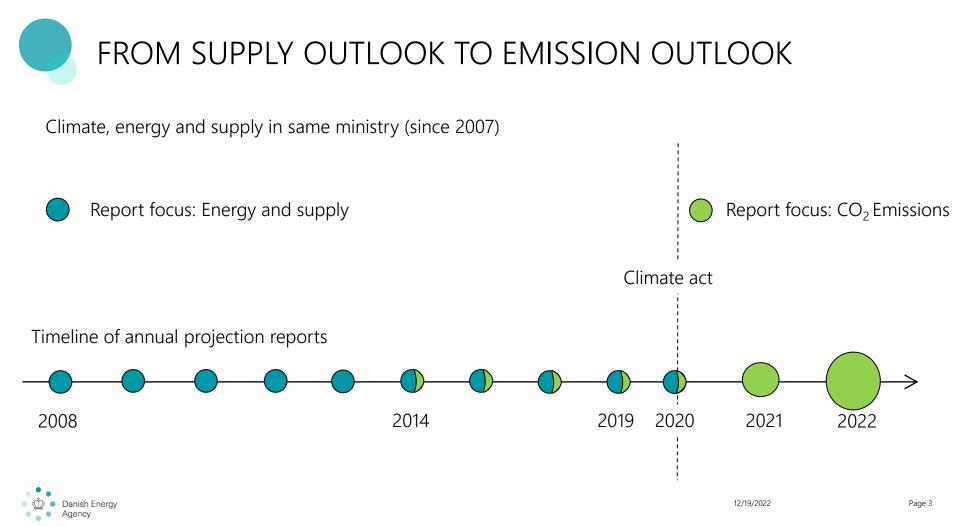
By Malene Vested Energy adviser, MSc Eng. and PhD

> Center for System Analysis Danish Energy Agency

## HOW WE USE EMISSIONS PROJECTIONS TO STEER CLIMATE POLICY

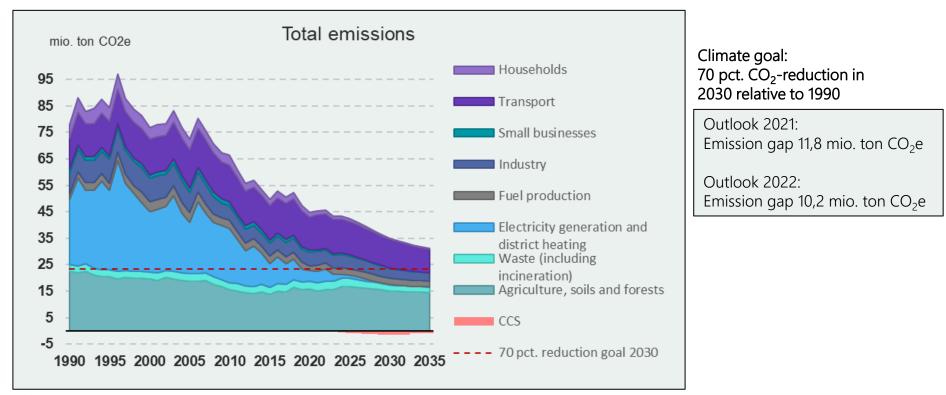








## CLIMATE STATUS AND OUTLOOK 2022





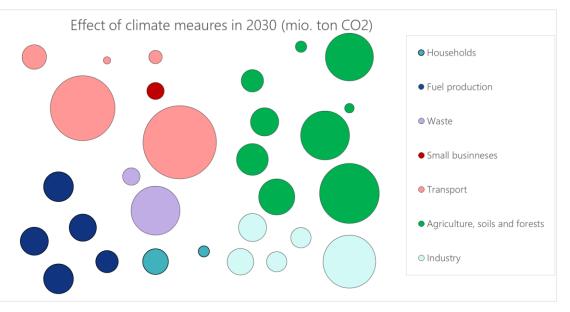
## COMPARING CLIMATE MEASURES AGAINST THE PROJECTION

#### We can now answer the following question:

For a specific climate measure, what is the consequence on the emissions in 2030?

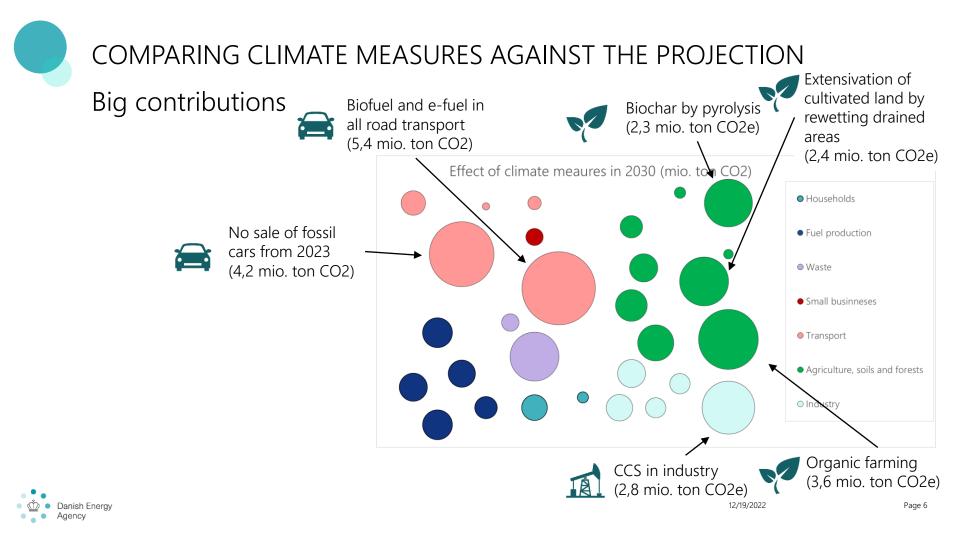
#### Using the following steps:

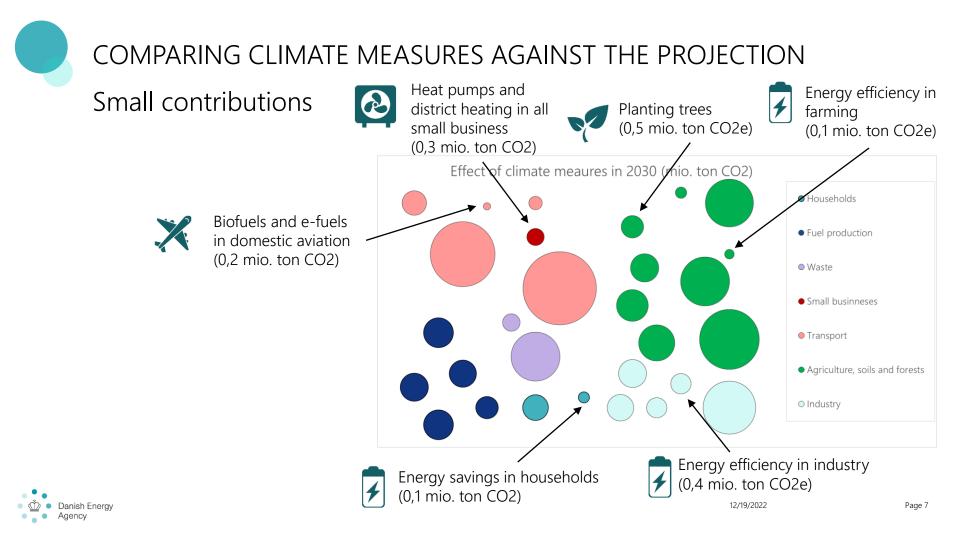
- Compute emissions from the activity under current legislation and development
- 2) Decide on change in activity or emission factor
- 3) Compute resulting change in emission projection



Sum: Sum corrected for overlap: 43 mio. ton CO2 31 mio. ton CO2









## GOOD PRACTICES AND CHALLENGES

#### **Good practices**

- Measuring climate initiatives against the climate outlook
- One update per year, not more not less
- Annual update of historic data

#### **Challenges**

- Ensuring good data input
- How to deal with uncertainties in the projection? Quantification and communication





# Thank you

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