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Umwelt, Verkehr, Energie und Kommunikation UVEK

**Bundesamt für Umwelt BAFU**  
Abteilung Klima

# Swiss climate policy and an outlook on decarbonisation

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# Agenda

1. Swiss climate policy
  - Up to 2020
  - Post 2020
  
2. Outlook on decarbonisation



# Swiss Climate Policy up to 2020

## CO<sub>2</sub> Act

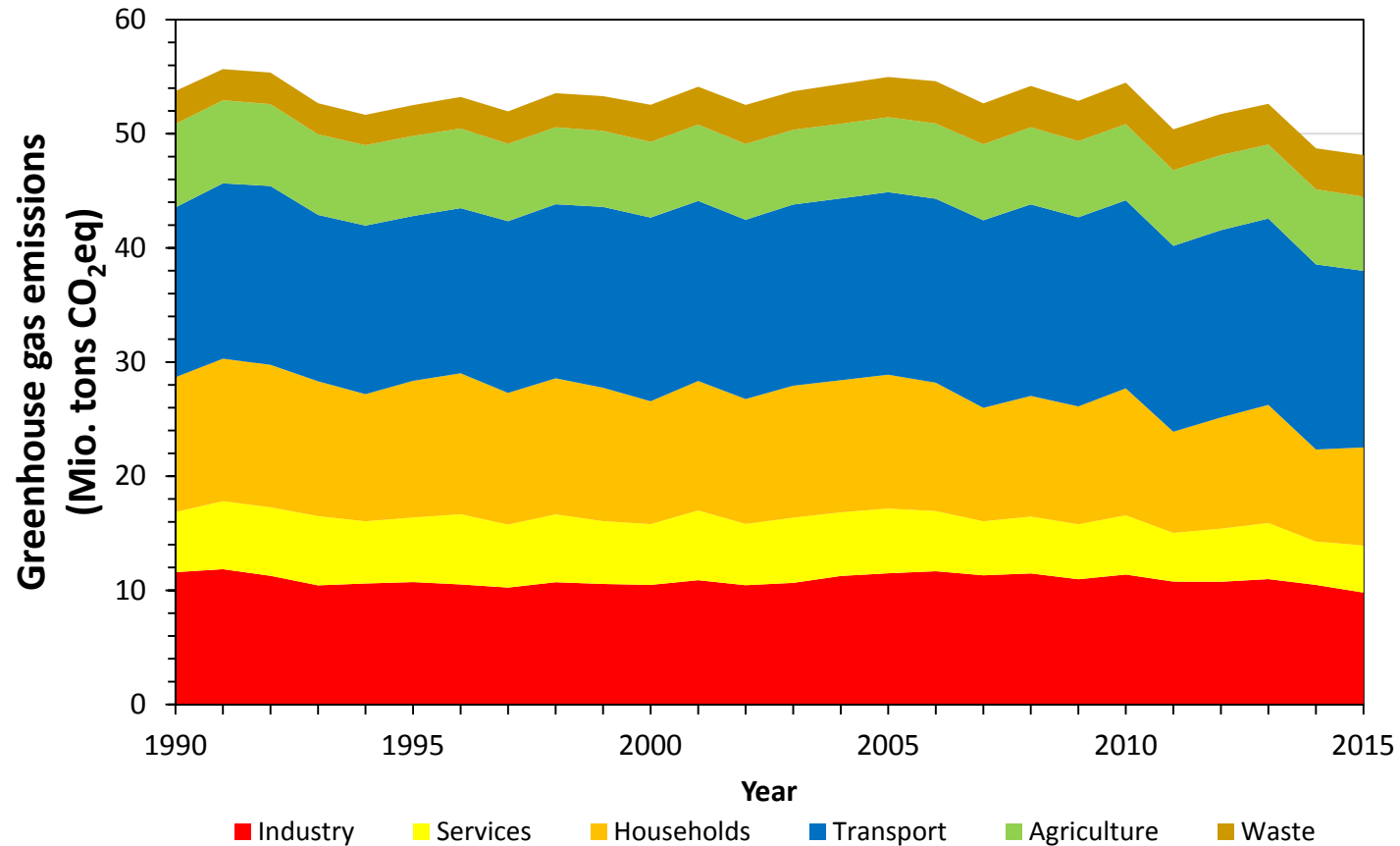
The CO<sub>2</sub> Act (and the CO<sub>2</sub> Ordinance) form the legal basis for Swiss climate policy up to 2020. The key elements are:

- Reduction targets for total GHG emissions (**-20% in 2020 compared to 1990**) and for different sectors
- Mix of instruments and measures (both market-based and regulatory)



# Swiss Climate Policy up to 2020

## GHG-emissions 1990-2015

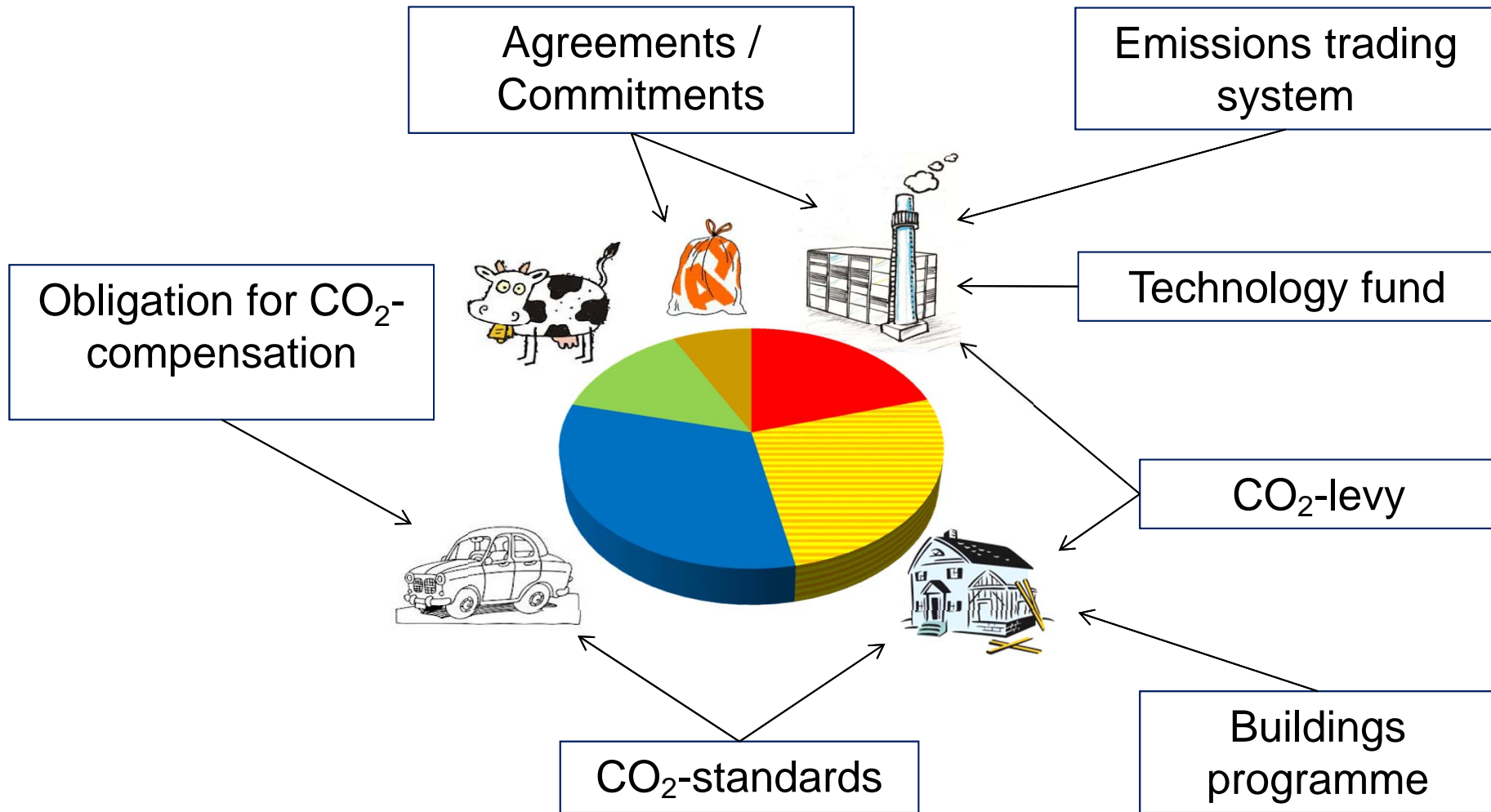


- Total emissions 2015: 48.1 Mio. t CO<sub>2</sub>eq
- Target for 2020: 43.0 Mio. t CO<sub>2</sub>eq



# Swiss Climate Policy up to 2020

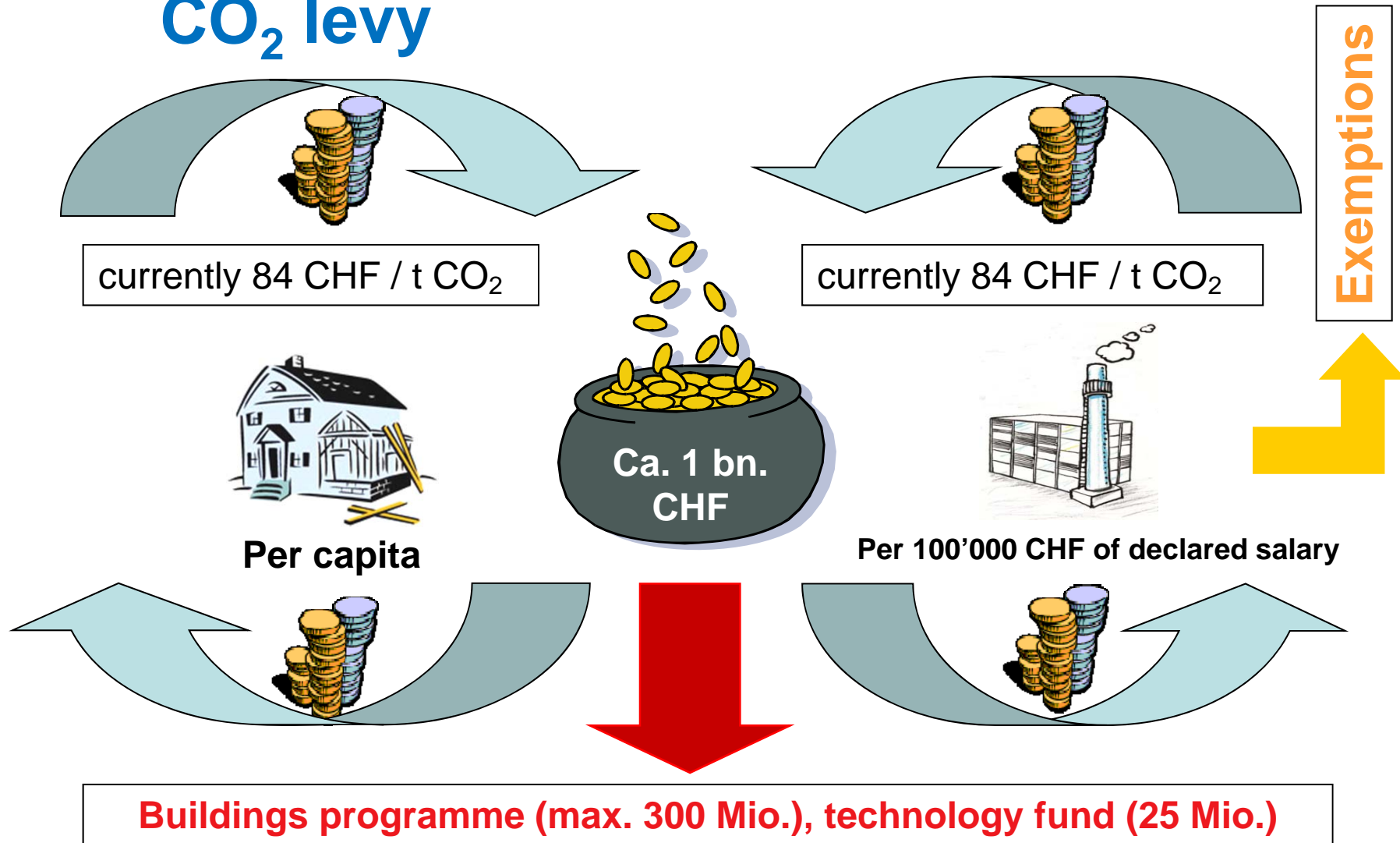
## Measures and Instruments





# Swiss Climate Policy up to 2020

## CO<sub>2</sub> levy





# Swiss Climate Policy up to 2020

## Exemptions from CO<sub>2</sub> levy

### Emissions trading scheme (ETS):

- Mandatory for **large emissions-intensive companies** (e.g. refineries, cement plants, see App. 6 of CO<sub>2</sub> Ordinance)
- Currently 56 companies with GHG emissions of around **5 Mio. t CO<sub>2</sub>**
- Swiss ETS to be linked with EU-ETS

### Exemptions with reduction commitments (non-ETS):

- Possible for small and medium-sized companies engaged in an activity listed in App. 7 of CO<sub>2</sub> Ordinance (e.g. manufacture of plastic products, of basic metals, of ceramics, hotels, ...)
- Currently around 1'000 companies with GHG emissions of **1.5 Mio. t CO<sub>2</sub>**



# Swiss Climate Policy post 2020

## Revision of CO<sub>2</sub> Act

CO<sub>2</sub> Act needs to be revised for the period 2021-2030 (national implementation of Paris accord) → targets and measures until 2030: Federal Council proposed

- a **total reduction target of -50% until 2030**
- a reduction target for **domestic emissions of -30%** until 2030 (i.e. 60% of total reduction)
- the continuation and strengthening of the current mix of instruments

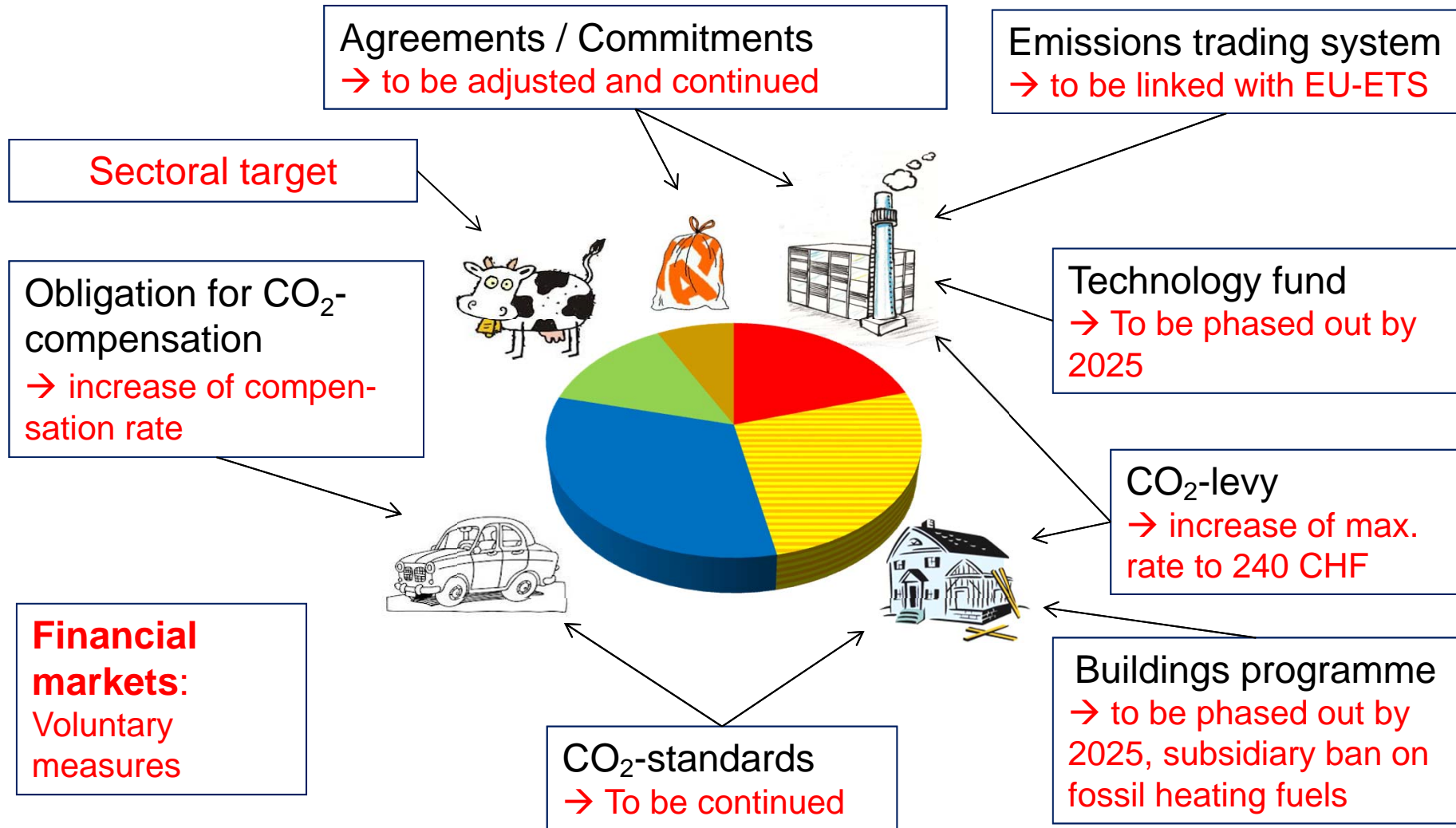
Public consultation in fall 2016, discussion in Parliament to begin in 2018





# Swiss Climate Policy post 2020

## Measures and Instruments





# The long run

## Outlook on decarbonisation

### Targets:

- Switzerland announced **indicative target of minus 70-85% in 2050** (comp. to 1990) in INDC...
- ...but no «formal» long-term target included in CO<sub>2</sub> Act.

### What is planned/done?

- Tentative simulations on deep decarbonisation in CH (EPFL/Infras)
- Elaboration of a long-term strategy covering the period until 2050 («2050 pathway»)

### Decarbonisation is a big challenge:

- Housing, transport and industries must become (nearly) carbon-free become until the second half of the century
- Requires technologies that are not operational yet (e.g. CCS)



# Questions?

