



Schweizerische Eidgenossenschaft  
Confédération suisse  
Confederazione Svizzera  
Confederaziun svizra

Federal Department of the Environment, Transport, Energy  
and Communications DETEC

Federal Office for the Environment FOEN

# **Switzerland's Third Biennial Report under the UNFCCC**

## **Multilateral Assessment**

**SBI 51**

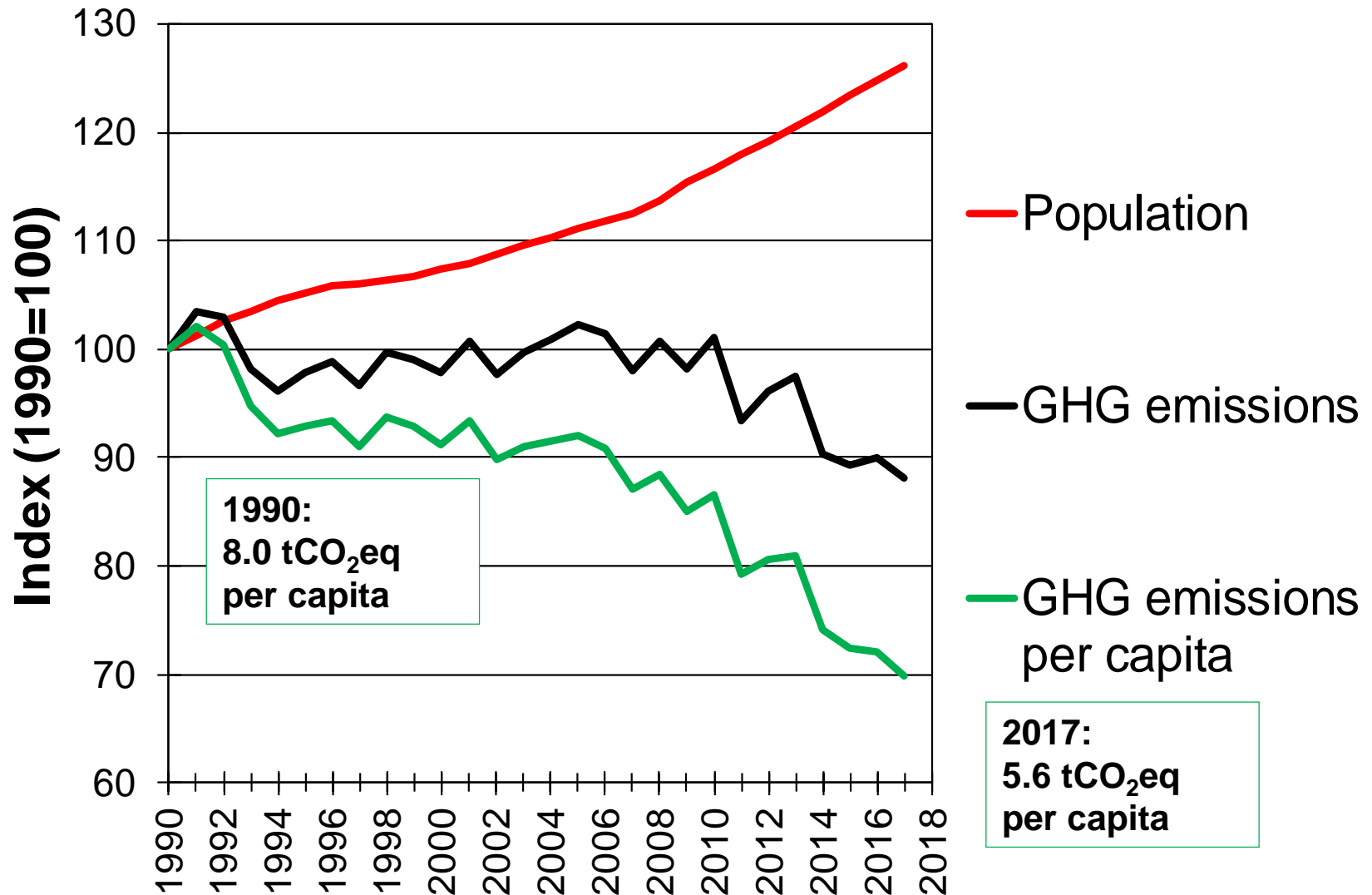
**Madrid**

**9 December 2019**

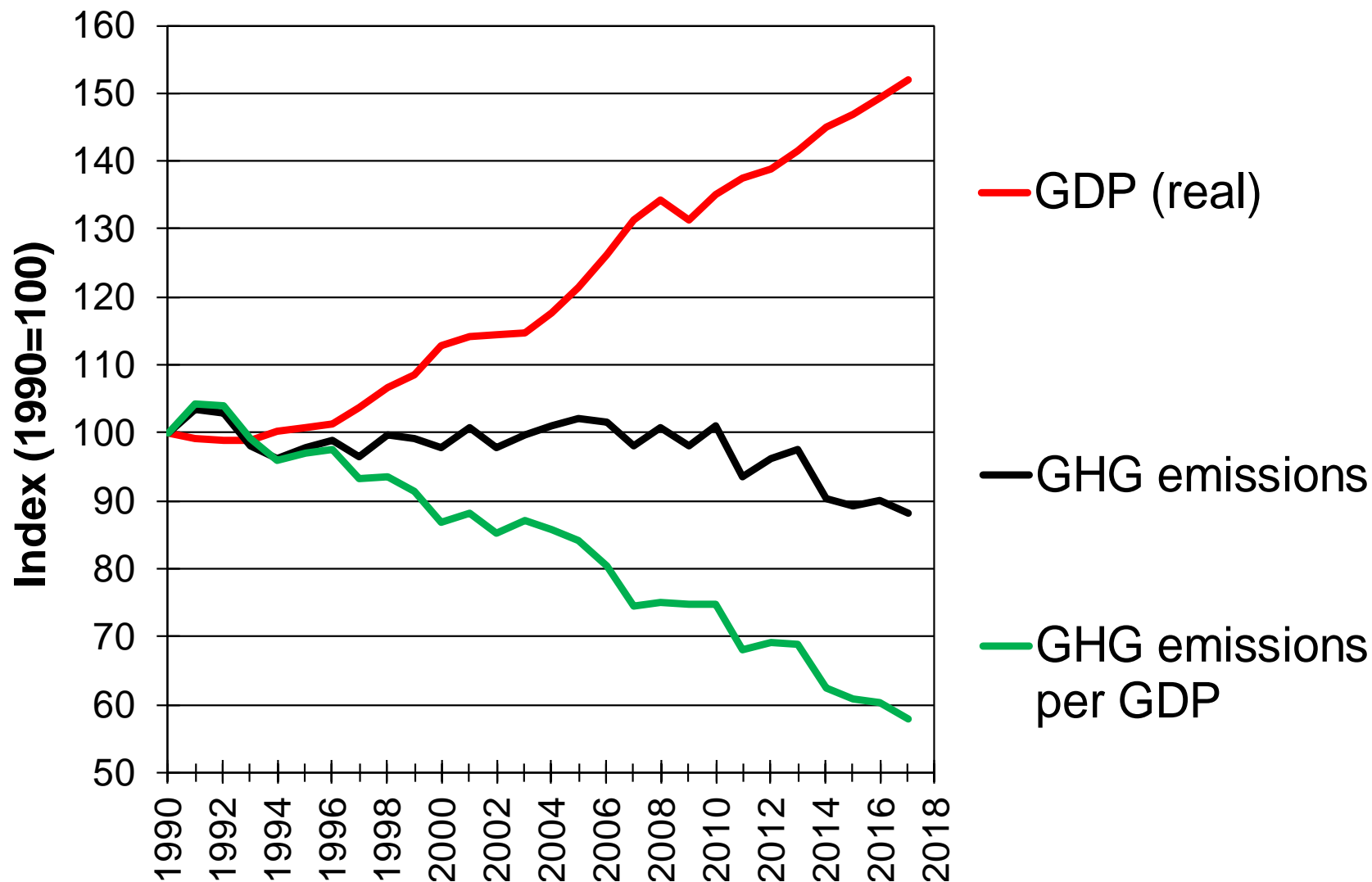
# Switzerland 1990–2017

	1990	2017	Change
<b>Population</b>	6.8 million	8.5 million	<b>+25%</b>
<b>GDP (real, 2010)</b>	450 billion CHF	685 billion CHF	<b>+52%</b>
<b>Index of industrial production</b>	100 (1995)	158	<b>+58%</b>
<b>Energy reference area of households</b>	346 million m <sup>2</sup>	501 million m <sup>2</sup>	<b>+45%</b>
<b>Passenger cars</b>	3.0 million	4.6 million	<b>+53%</b>
<b>Greenhouse gas emissions</b>	53.7 million tCO <sub>2</sub> eq	47.2 million tCO <sub>2</sub> eq	<b>-12%</b>

# GHG emissions per capita (1990–2017)



# GHG emissions per GDP (1990–2017)



# Switzerland's GHG emissions in 2017



**47,2 Mio. t CO<sub>2</sub>eq**

**5,6 t CO<sub>2</sub>eq / capita  
(2017)**



**Transport  
32 %**



**Buildings  
27 %**



**Industry  
20 %**



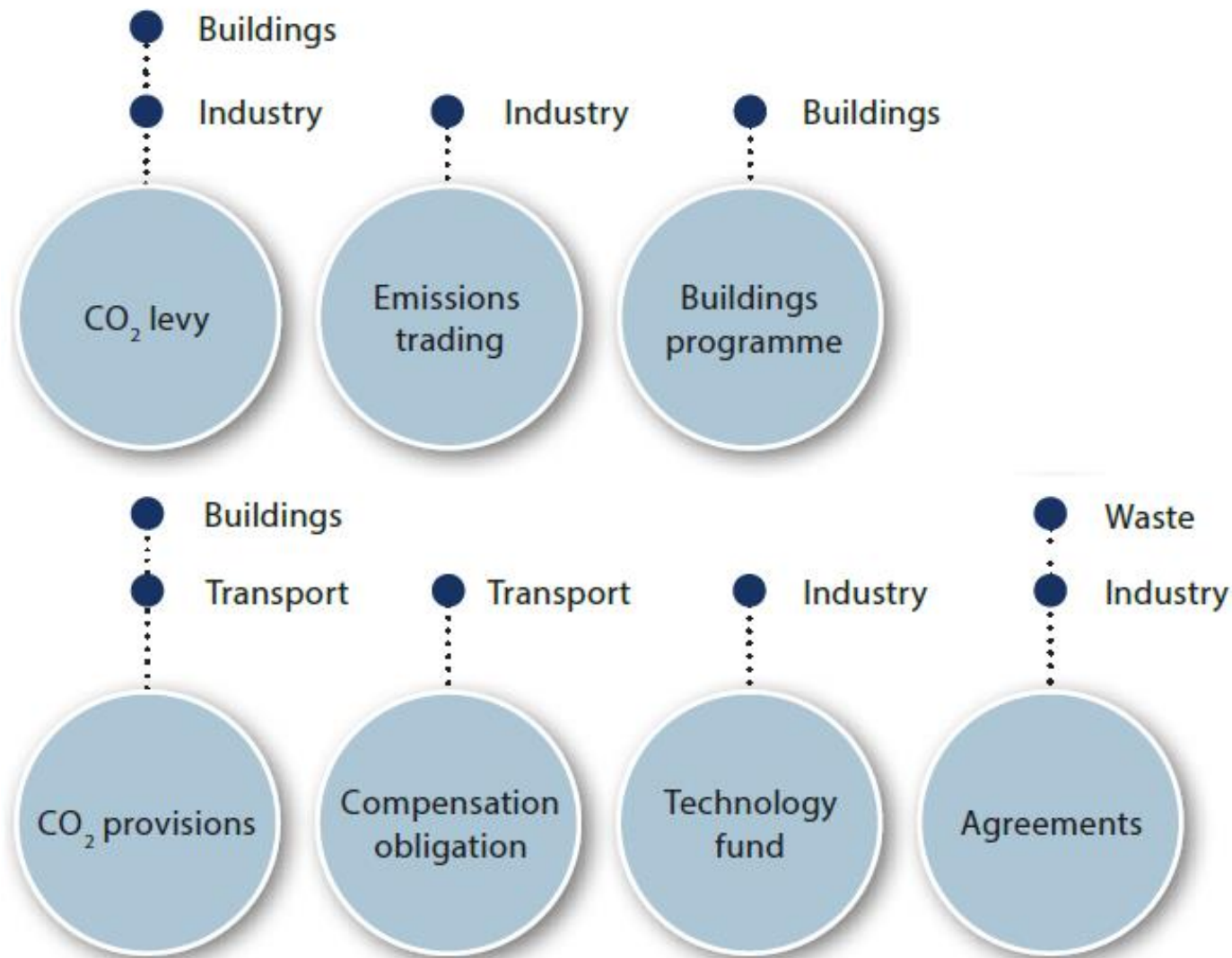
**Agriculture  
13 %**



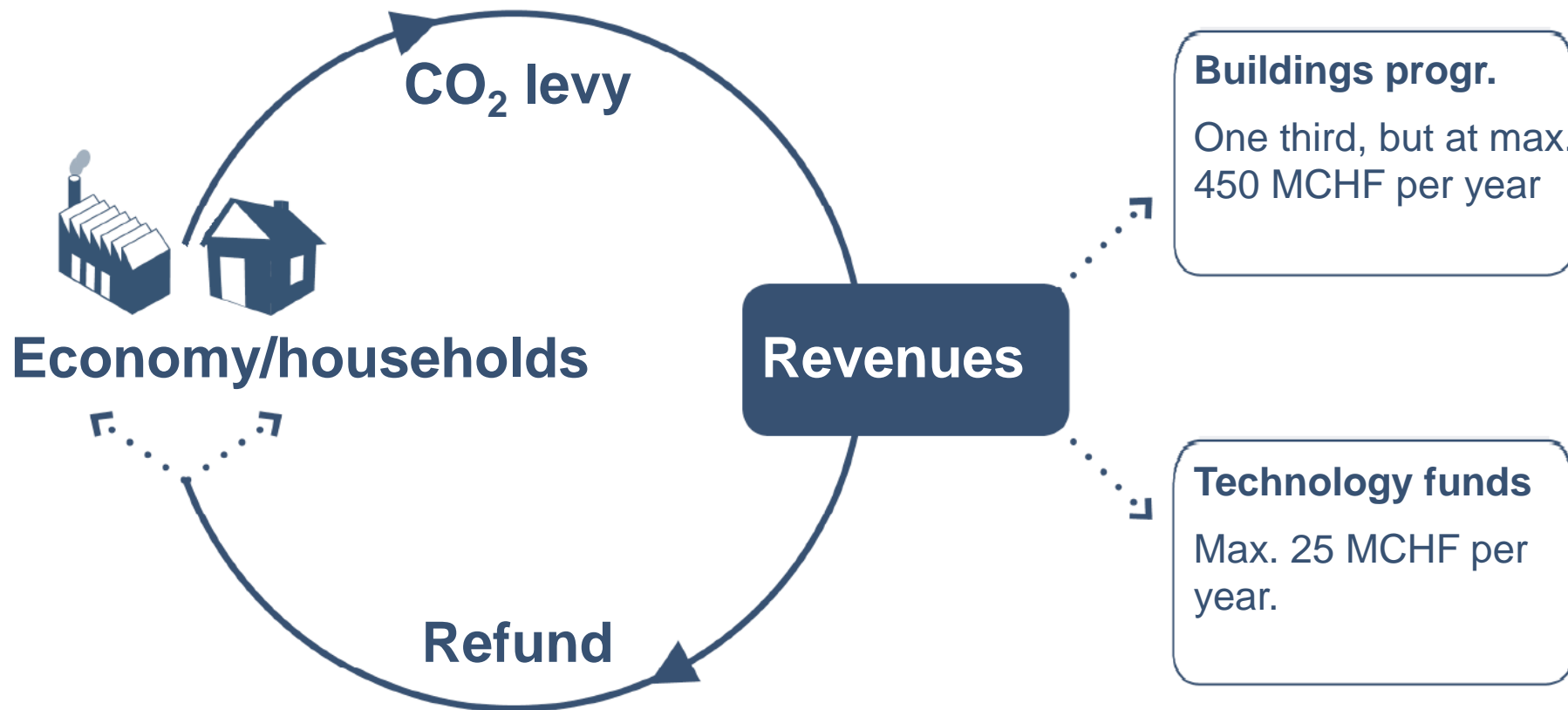
**Waste  
8 %**

~ 76% of emissions from fossil fuel use

# Policies and measures of the CO<sub>2</sub> Act

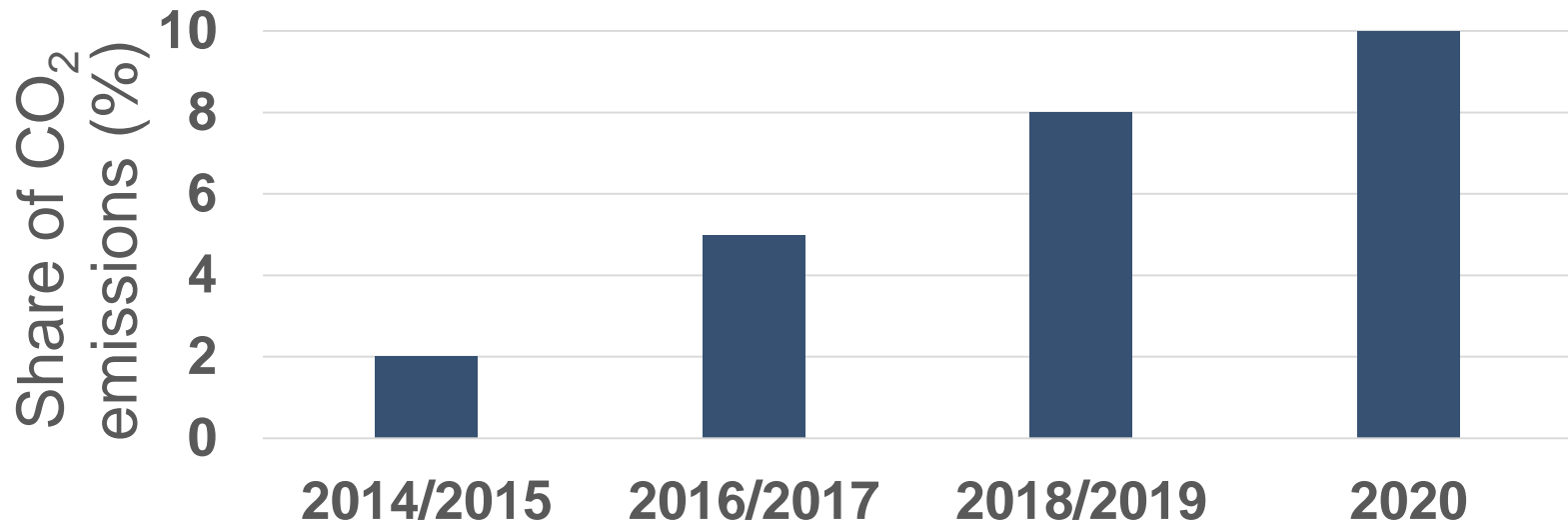


# CO<sub>2</sub> levy on heating and process fuels



- Levy automatically increases if targets are not met
- Currently at 96 CHF per tonne CO<sub>2</sub>

# Partial compensation of CO<sub>2</sub> emissions from motor fuel use

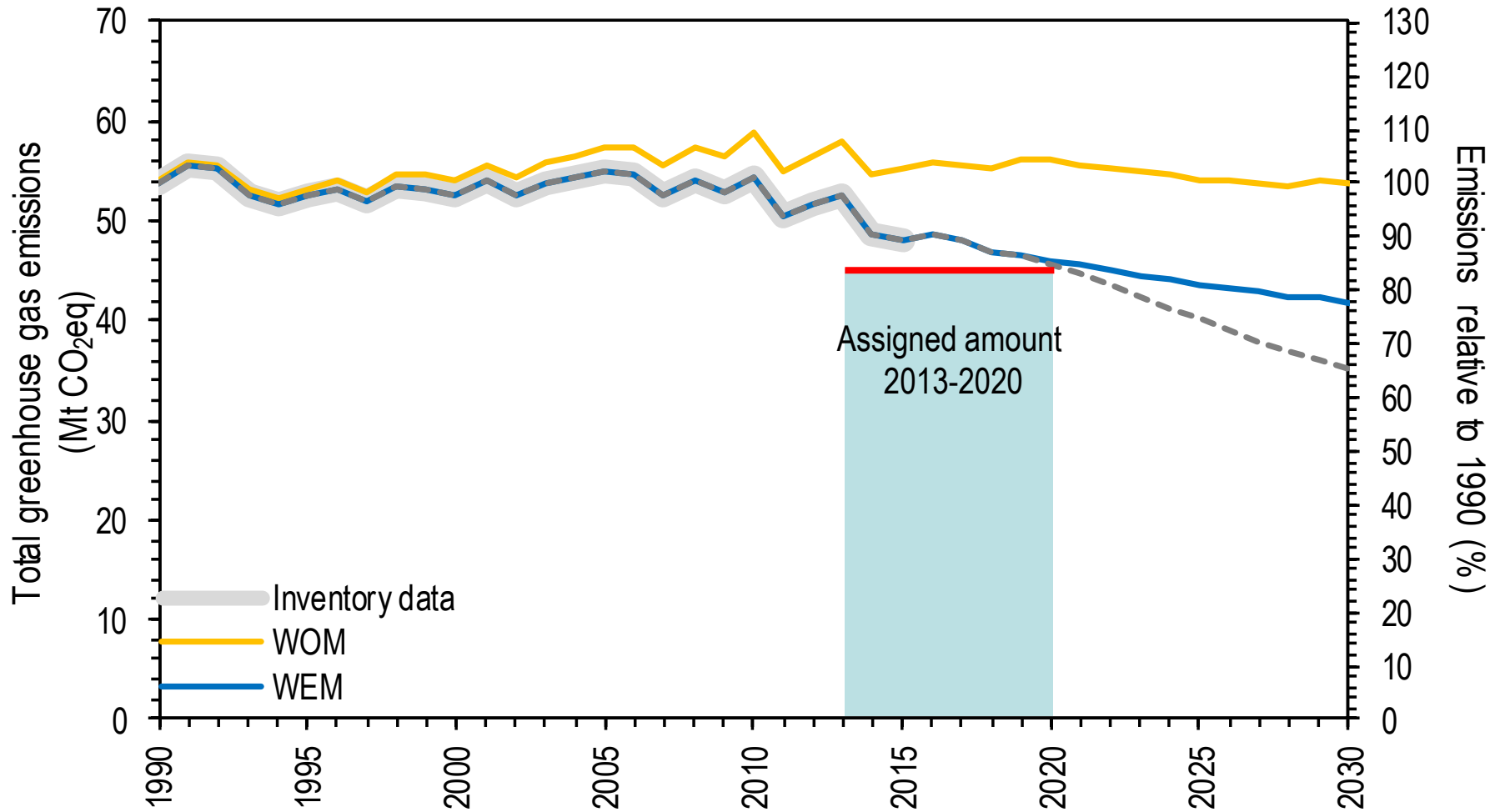


- Importers of fossil motor fuels are to compensate an increasing share of emissions
- Domestic emission reduction projects financed by a surcharge on fuels (max. 0.05 CHF per litre)





# Projections of Switzerland's greenhouse gas emissions



# Milestones in emission reduction

Kyoto Protocol

Paris Agreement

**First  
CO<sub>2</sub> Act**

**2008-2012: -8%**

**Second  
CO<sub>2</sub> Act**

**2020: -20%  
2013-2020: -15.8%**

**Third  
CO<sub>2</sub> Act**

**2030: -50%  
2021-2030: -35%**

**Later revisions of  
CO<sub>2</sub> Act**

**2050: Net zero  
emissions**



2012



2020



2030



2050

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

- Revision of the CO<sub>2</sub> Act beyond 2020: targets and measures till 2030 currently discussed in Parliament
- Government approach: strengthening of existing policies and measures
- Parliament to decide on
  - share of emissions to be reduced domestically
  - increase of CO<sub>2</sub> levy and partial earmarking of revenues for refurbishment of buildings and fuel switch to renewables
  - enhanced or additional measures, e.g.
    - share of transport fuel emissions to be offset by domestic measures and by market mechanisms
    - CO<sub>2</sub> standards for new and old buildings per m<sup>2</sup> heated surface (as of 2023)
    - introduction of airplane ticket levy, partially earmarked to foster innovation



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# Thank you for your attention

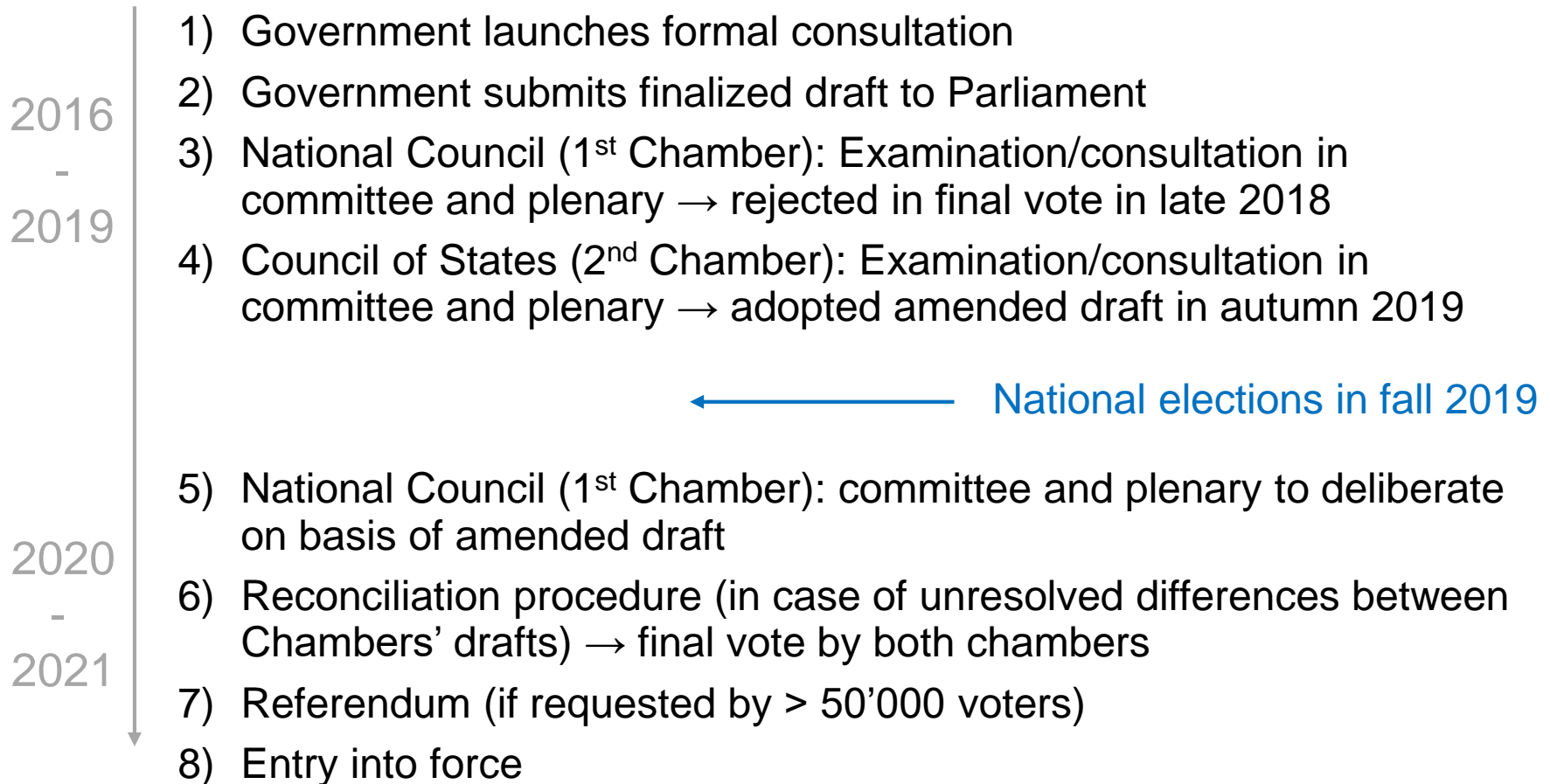


Short version of Switzerland's NC7/BR3  
(for the general public):

[www.bafu.admin.ch/ui-1803-e](http://www.bafu.admin.ch/ui-1803-e)

# **BACKUP SLIDES**

# Policy-making process in Switzerland – ‘Revision of CO<sub>2</sub> Act beyond 2020’





# Expected effects of domestic measures

Measures expected to contribute the most to annual GHG emission reduction by 2020 (in Mt CO<sub>2</sub>eq)

National buildings refurbishment programme	1.12
CO <sub>2</sub> levy on heating and process fuels	1.60
Building codes of the cantons	1.76
CO <sub>2</sub> emission regulations for newly registered vehicles	1.70
Partial compensation of CO <sub>2</sub> emissions from motor fuel use	1.50
Measures within Forest Policy 2020	1.20
Provisions relating to substances stable in the atmosphere	0.90