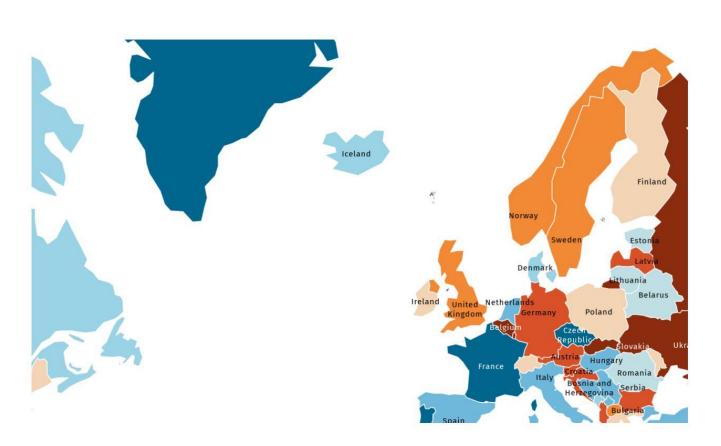


Climate policy in Iceland

Mulitilateral Assessment, SBI 50 Helga Barðadóttir

Government of IcelandMinistry for the Environment and Natural Resources





Iceland

General information

- 358.000 inhabitants
- 103.000 km²
- Population density: 3 inh./km2
- Population growth 2017-2018: 2,4%

Most important industries

- Fishing
- Power intensive industry
- Tourism

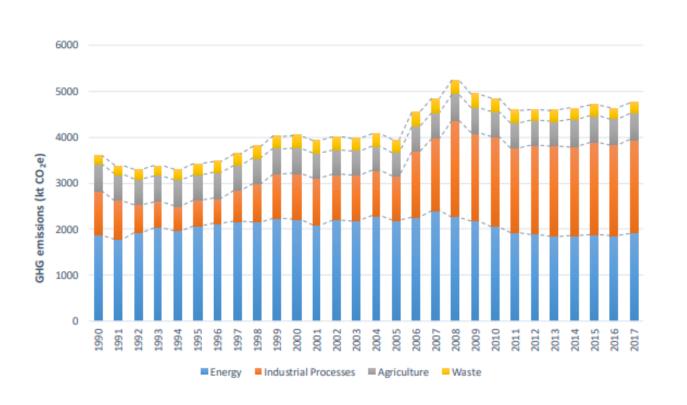


Climate Reduction Targets to 2020

- Kyoto target for 2nd commitment Period (2013-2020)
 - -20% compared to 1990: as part of a joint fulfilment of 29 countries, EU+IS
 - Bilateral agreement (2015) with EU on Iceland's participation in joint fulfilment of Kyoto 2nd commitment period; (non-ETS emission)
- Iceland is part of the EU Emissions Trading Scheme (EU-ETS)
 - As a part of the EEA Agreement
- Climate regulation comparable to EU countries



Emissions Profile 1990-2017*



Emissions: 4.755 kt. CO₂e

- 1990-2017: 3.598 4.755 **+32,1%**
- 2016-2017: 4.640 4.755 **+2,5%**

100% renewables

for electricity and heating

Energy related emissions

mainly transport and fishing industry

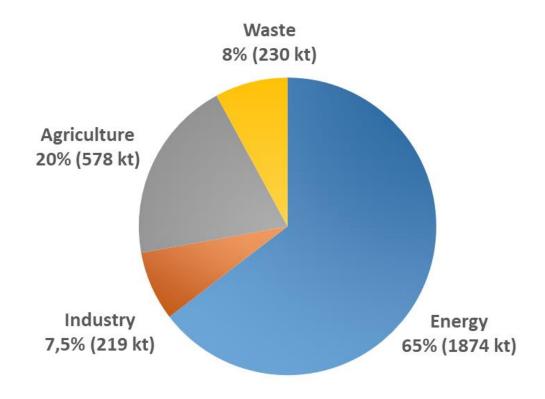
Heavy industry

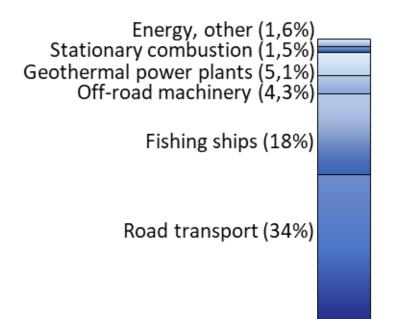
- main source of emissions
- also main increase since 1990

*without LULUCF, Without international aviation/shipping

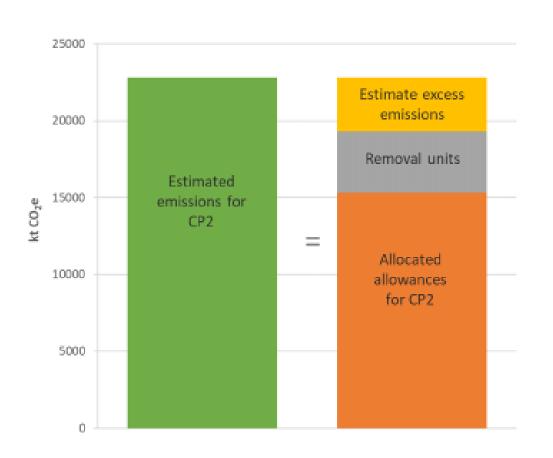


Effort sharing* Emissions by sectors 2017









Estimate for 2. commitment period of Kyoto (CP2)

(based on 2013-2017 emissions)

- Total emissions CP2: 22.812 kt CO₂e
- Allocated allowances CP2: 15.327.217 (t CO₂e)*
- Removal units: 3.698-3.970 kt CO₂-íg

Estimate for CP2:

3.514 – 3.787 kt CO₂e in excess of allocated emissions

Assumptions:

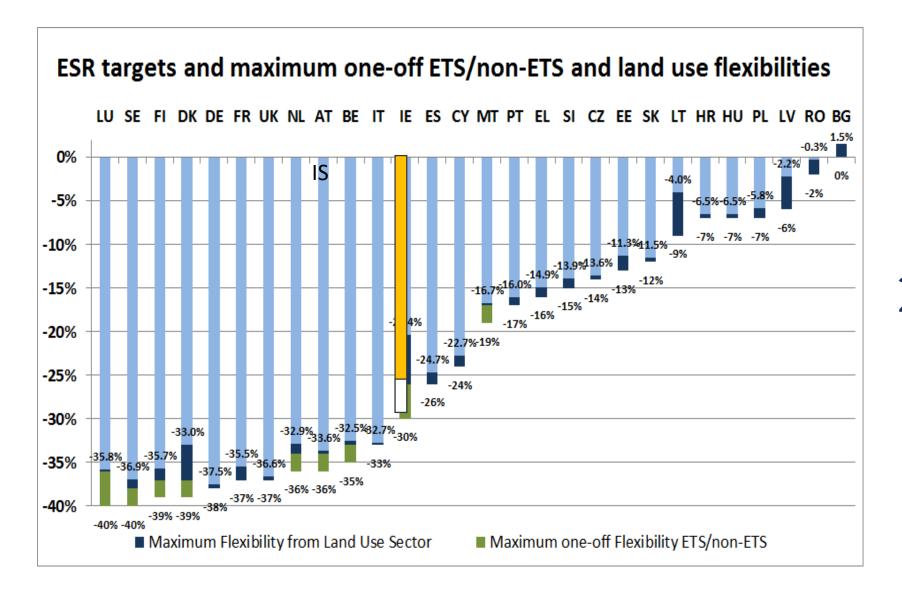
- Emissions 2018-2020 estimated with average 2013-2017 emissions
- Removal units 2018-2020 estimated with average 2013-2017 RMUs
- Removals and therefore estimated emissions are dependent on method of estimation of removal units (linear increase vs. average)



Contribution under the Paris Agreement

- Iceland, Norway and EU countries, joint fulfilment of -40% GHG emissions to 2030, compared to 1990
- Iceland, Norway and EU countries will share effort based on common rules: EU-ETS, Effort sharing decision, LULUCF-rules etc.
- Discussions between EU and Iceland and Norway on practical and legal issues of joint implementation in final stages, expected to be finalized this year
- Pledge for carbon neutrality 2040





EU targets 2021-2030



New climate action plan in 2018

34 Government measures

Two main target areas:

- 1. Clean transport phase out fossil fuels in transport and fisheries
- 2. Increased carbon sequestration in land use

Substancial increase in funding



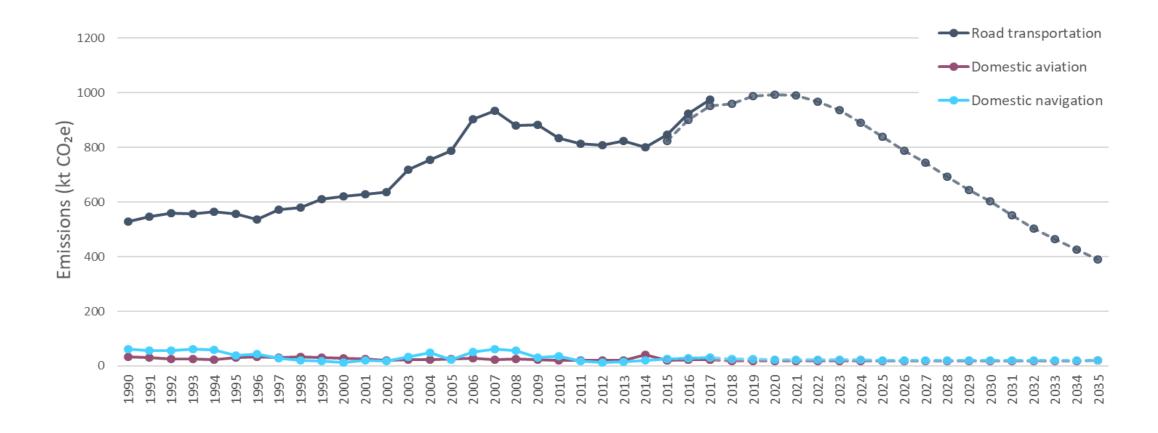


Clean transport

- Strengthening
 - subsidies for electric cars and other clean vehicles
- Support
 - infrastructure / EV charging stations
 - biofuel production
 - public transport and bicycling
- Ban
 - on new registration of fossil fuel cars by 2030

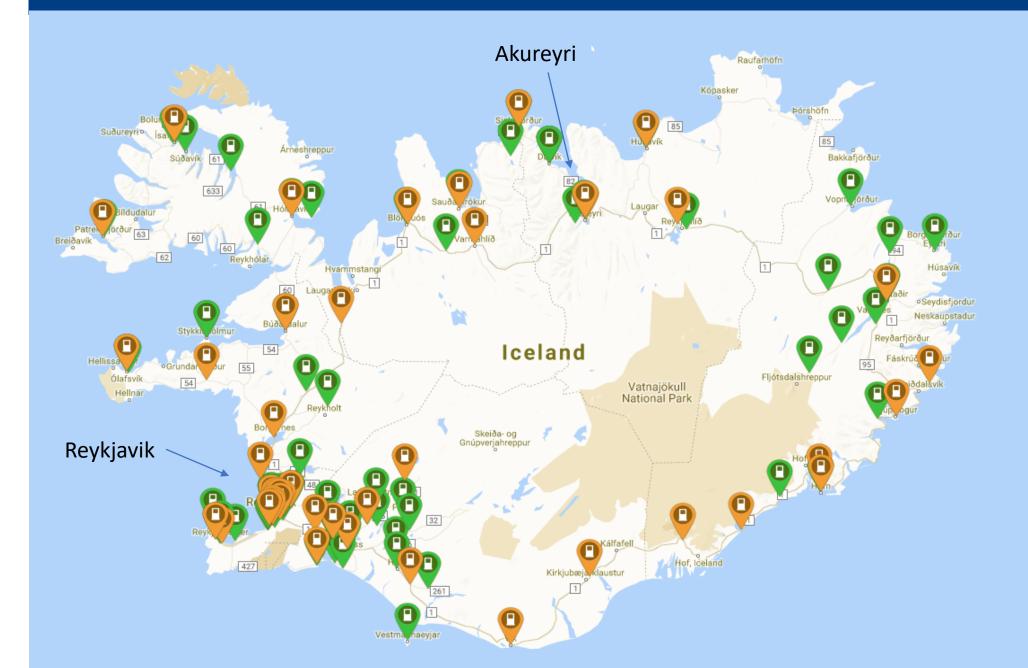


Projection – transport sector





Charging stations





Carbon sequestration - LULUCF

- Plan to significantly increase afforestation and revegetation
- Efforts to reclaim drained wetlands
- Increase in government funding secured for LULUCF-activities; also private efforts (Wetland reclamation fund et. al.)
- Need to improve science and carbon accounting of land
- Nature-based solutions: Efforts in LULUCF should strengthen biodiversity and ecosystem resilience climate change, and roll back desertification





CARB-Fix

Turning CO₂ to rock

- Capture CO₂ from emission sources and permanently store as minerals in basaltic rock underground
- CO₂ is transformed to minerals in porous rock in less than two years

Declaration

The power intensive industry will strive to find a solution to use the Carb-fix method to reduce emissions from the industrial processes from aluminum and ferro silicon production.

Signed June 18th 2019



Impacts of Climate Change; Adaptation

- New Scientific Assessment on Impact of Climate Change in Iceland issued 2018
- Glaciers are retreating, may largely disappear in 100-200 years
- Vegetation cover is increasing
- Ocean acidification a big concern
- Increase in funds for research, monitoring adaptation efforts
- Work on Adaptation Strategy has started







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