



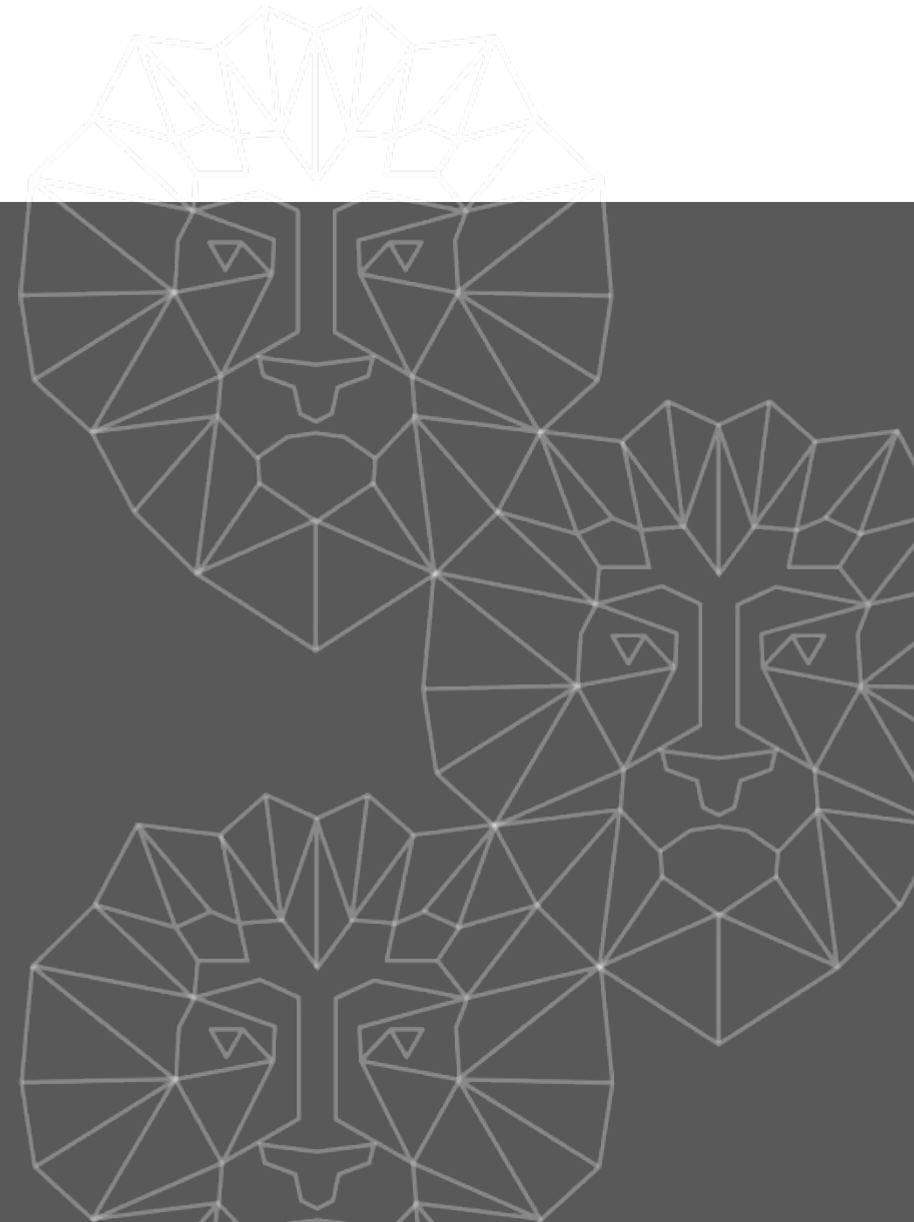
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Why Hydrogen?

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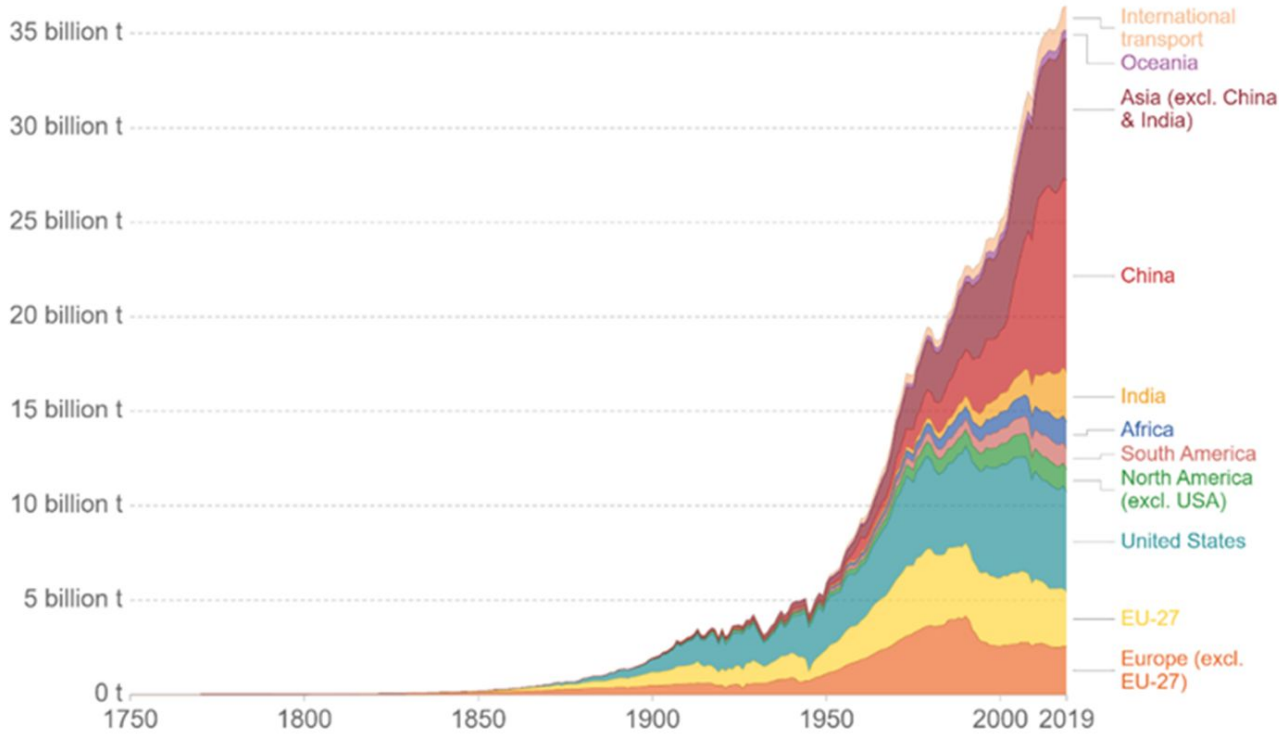
Estonian Hydrogen Days, Tartu 05.07.2021



Annual total CO₂ emissions, by world region

This measures CO₂ emissions from fossil fuels and cement production only – land use change is not included.

Our World
in Data



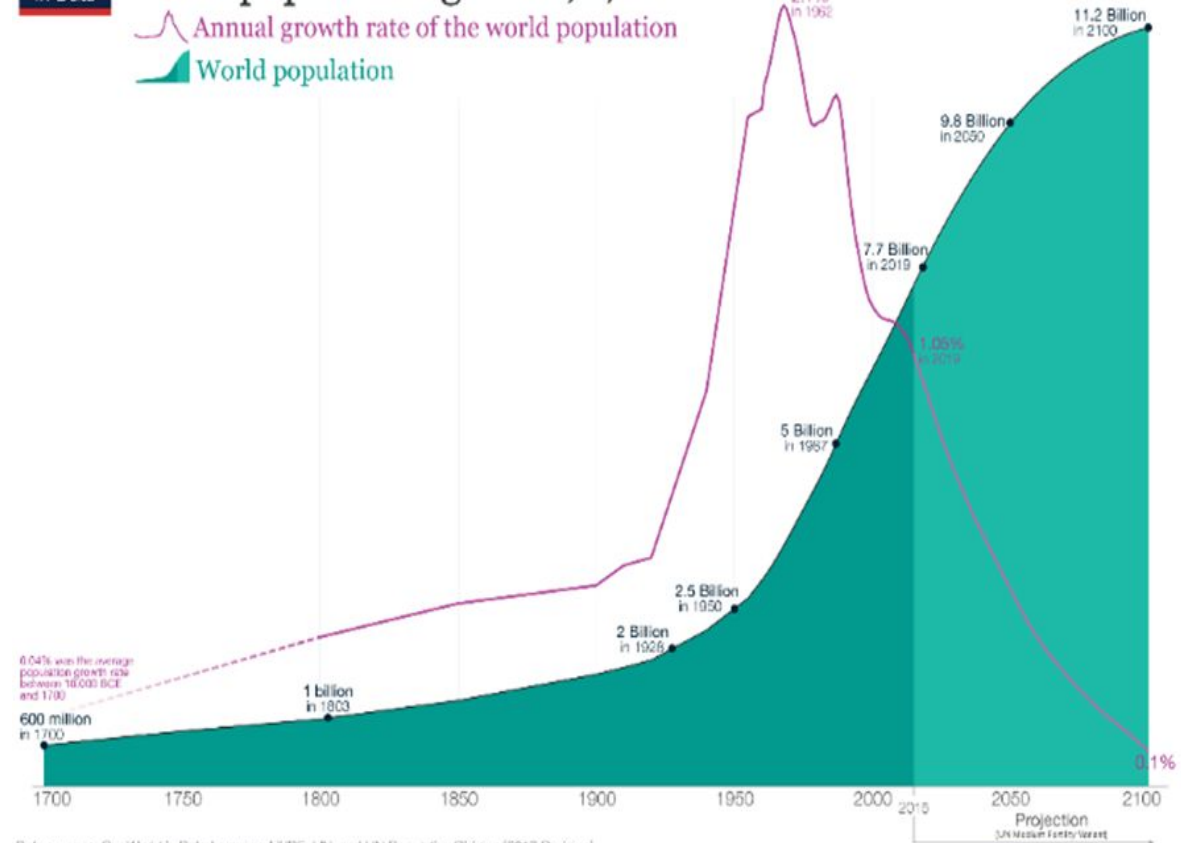
Source: Our World in Data based on the Global Carbon Project
OurWorldInData.org/co2-and-other-greenhouse-gas-emissions • CC BY
Note: 'Statistical differences' included in the GCP dataset is not included here.

Our World
in Data

World population growth, 1700-2100

Annual growth rate of the world population

World population



Data sources: Our World in Data based on HYDE, UN, and UN Population Division (2017 Revision)
This is a visualization from OurWorldInData.org, where you find data and research on how the world is changing.

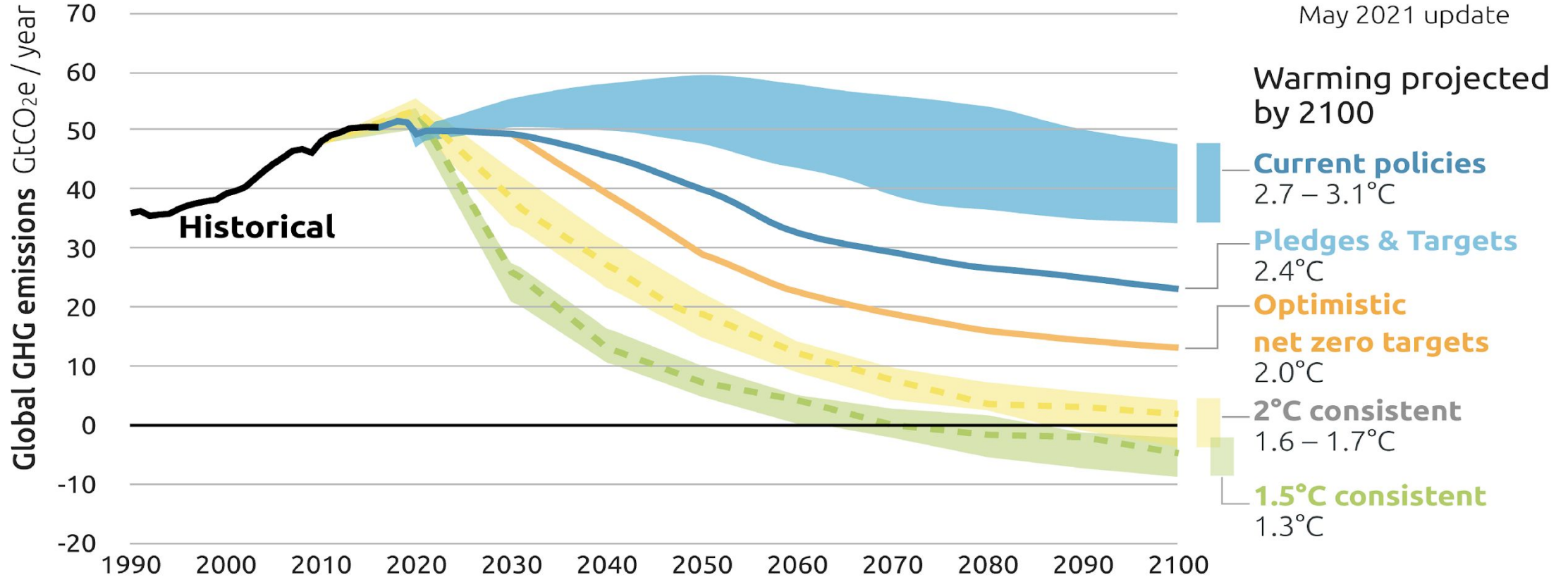
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2100 WARMING PROJECTIONS

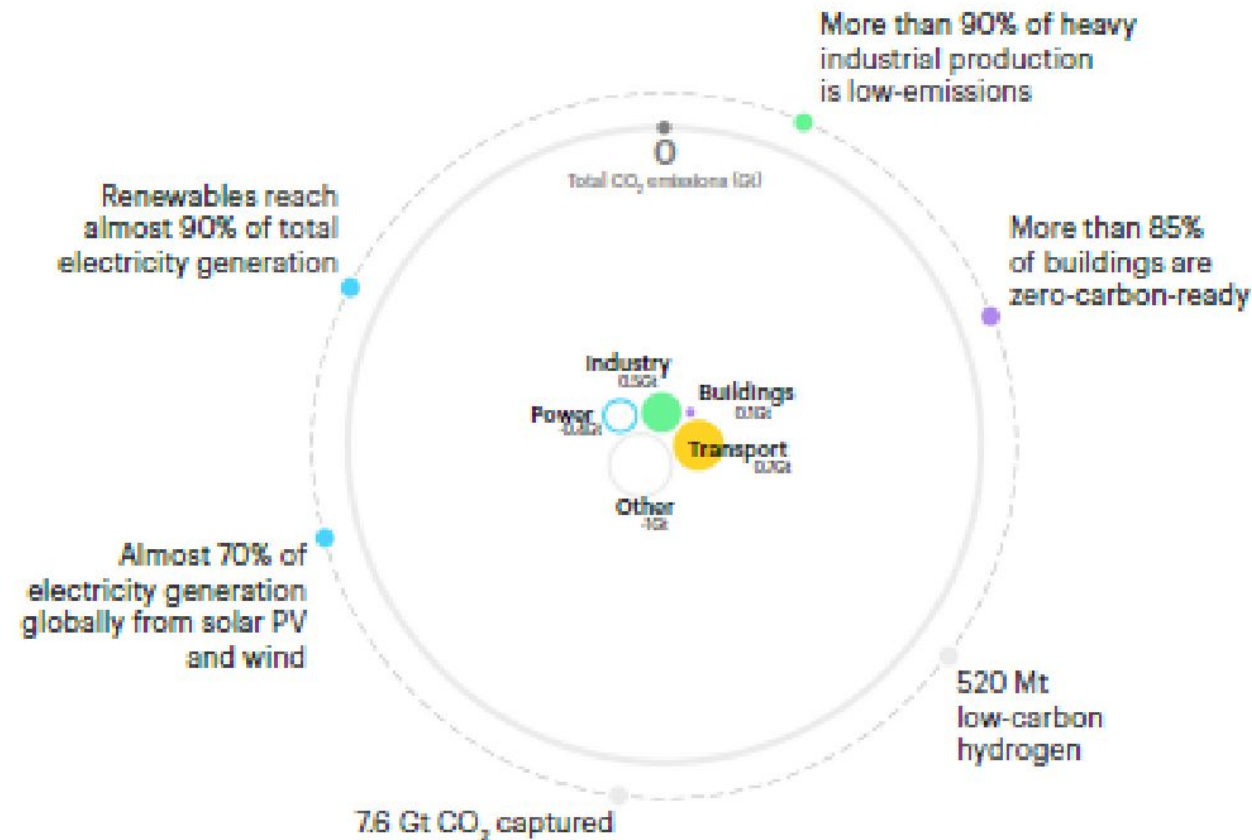
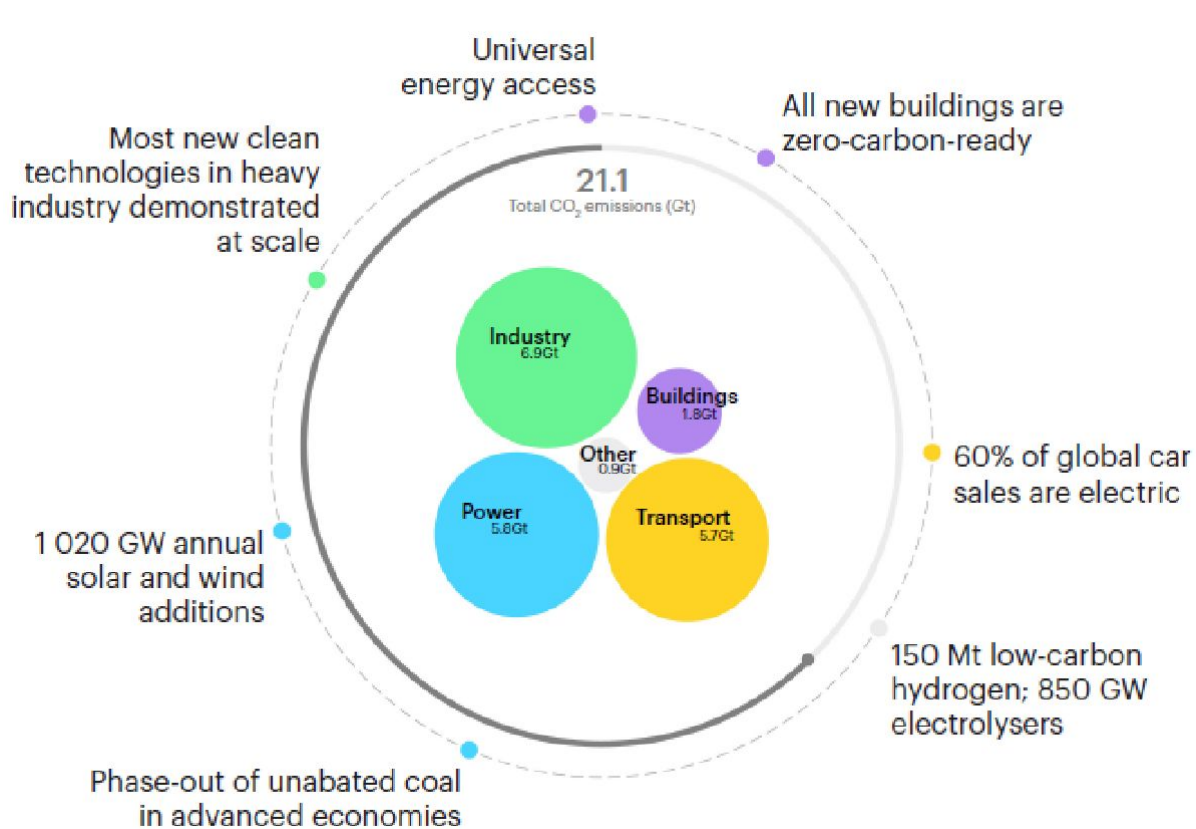
Emissions and expected warming based on pledges and current policies



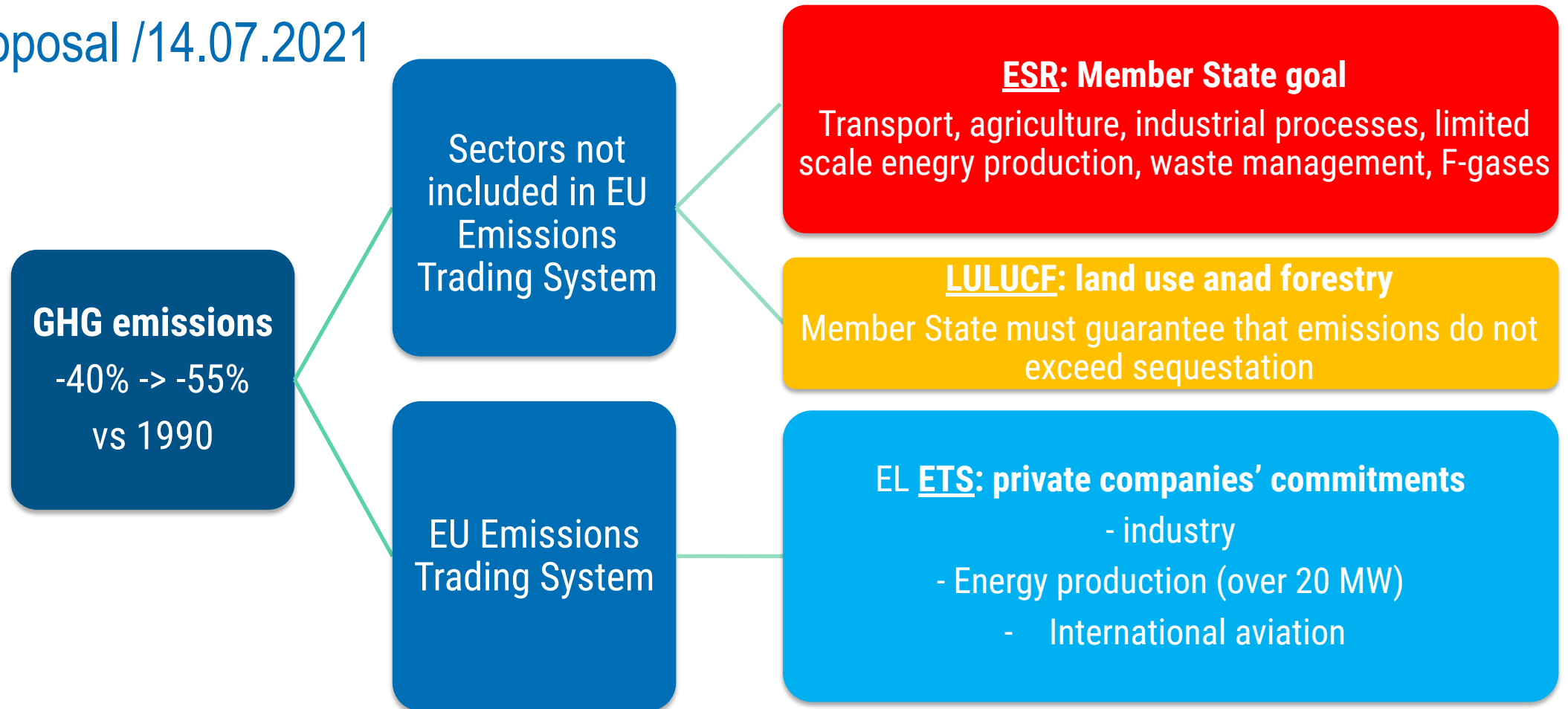
May 2021 update



IEA's Net Zero Roadmap



GHG reduction targets by 2030 and the EU's carbon market reform proposal /14.07.2021



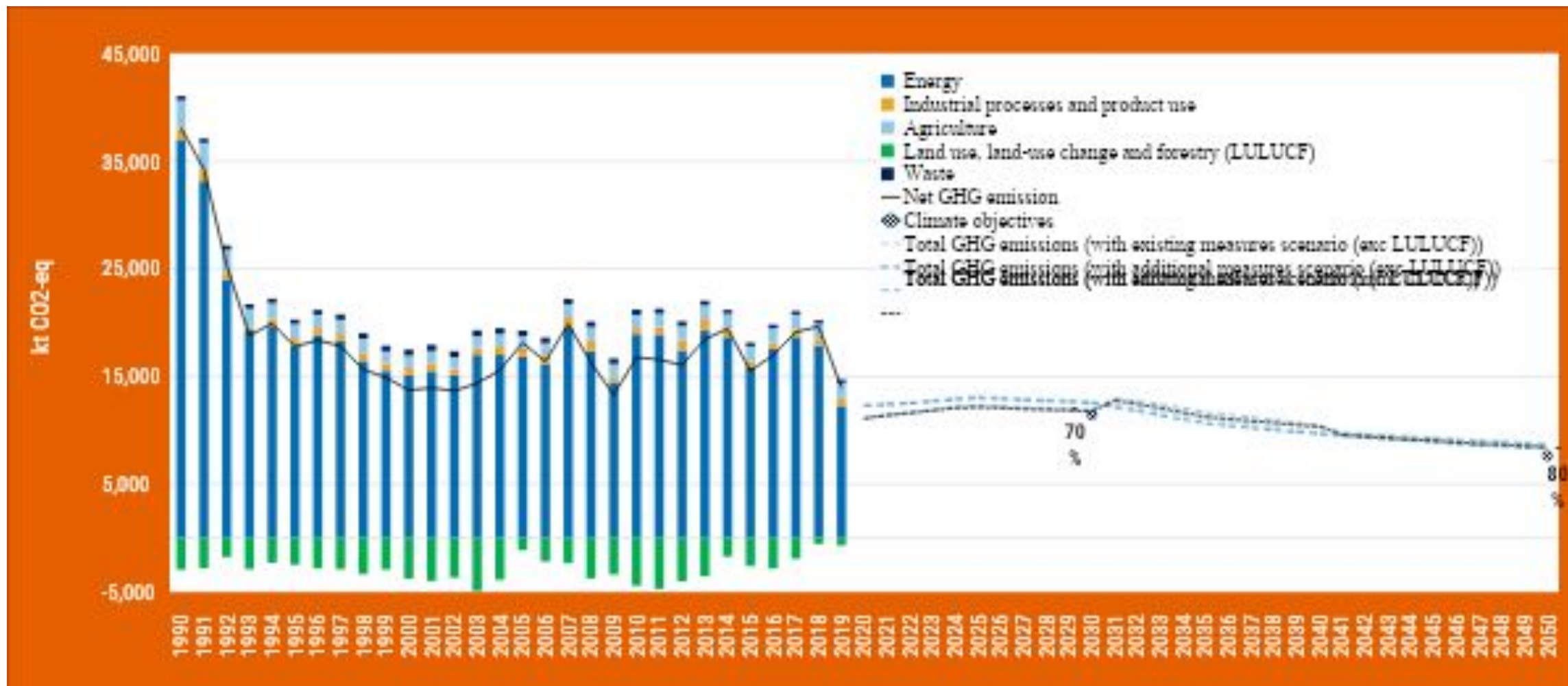
The ambitions of the government

The government has committed to quit additional governmental investments into fossil projects and focus on renewables.

- Plan to announce a bid to install 450 GWh of renewable electricity by October 2021.
- 2035 - exit oil shale electricity production
- 2040 - exit the processing of oil shale for the purposes of generating energy altogether.



Current levels of GHG emissions and prognosis



Hydrogen roadmap

- Hydrogen potential estimated in reaching climate goals could be up to avoiding 2,2-4,4 million tons of CO₂-equivalent emissions by 2050 and create over 21-42 thousand jobs in Hydrogen production and usage
- Roadmap by the end of 2021 to map the needs and potential to adopt Hydrogen Technologies, set strategic trajectories, identify counterparts with key activities in Estonia as well as key partners in the region
- Support to building Hydrogen value chains (incl. RRF negotiations with the EC)



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Thank you!

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