

SAVONIA

University of Applied Science

Green transition

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We have clear political consensus on goals, to:

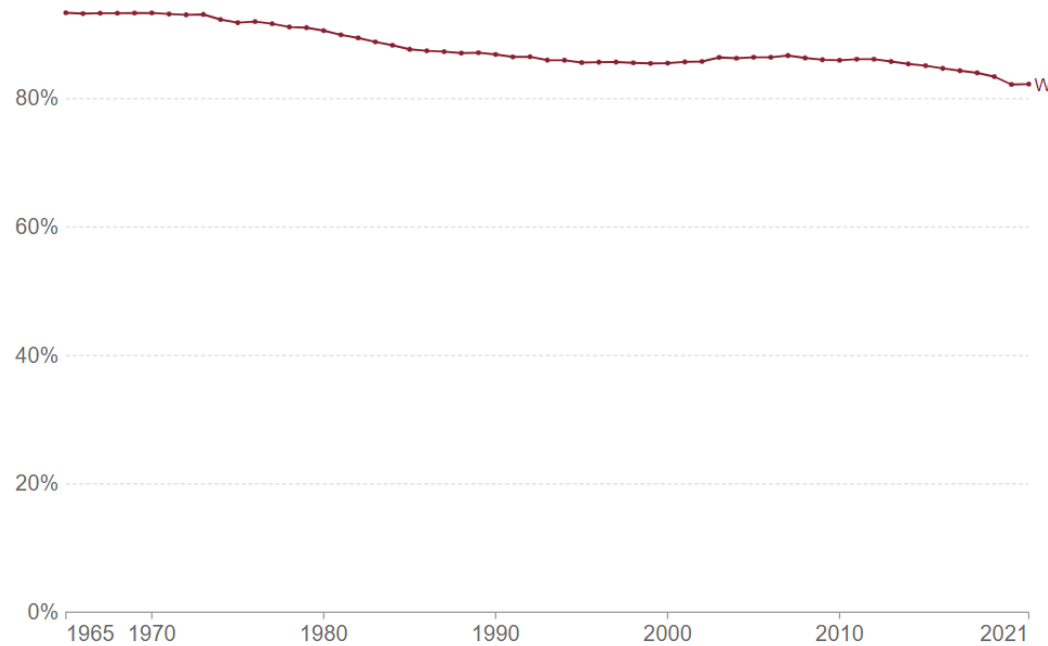
- Stop climate change
- Mitigate global temperature rise below $+1,5^{\circ}\text{C}$
- Reach zero net C-missions
- To solve problem in socially responsible way, i.e. no harm to common people, no energy poverty
- Money will be allocated for transition
- Etc.

Russian war speeds up the demand for transition

- We can keep our consumption level in industrialized countries
- Common people does not have suffer nor to change their habits
- As always before, new technologies solve all problems
- Countries, public sector and industry will take full responsibility on corrective actions
- Technological, systemic, economical, social etc. solutions and tools are there

All that generate safe feeling – but they are incorrect

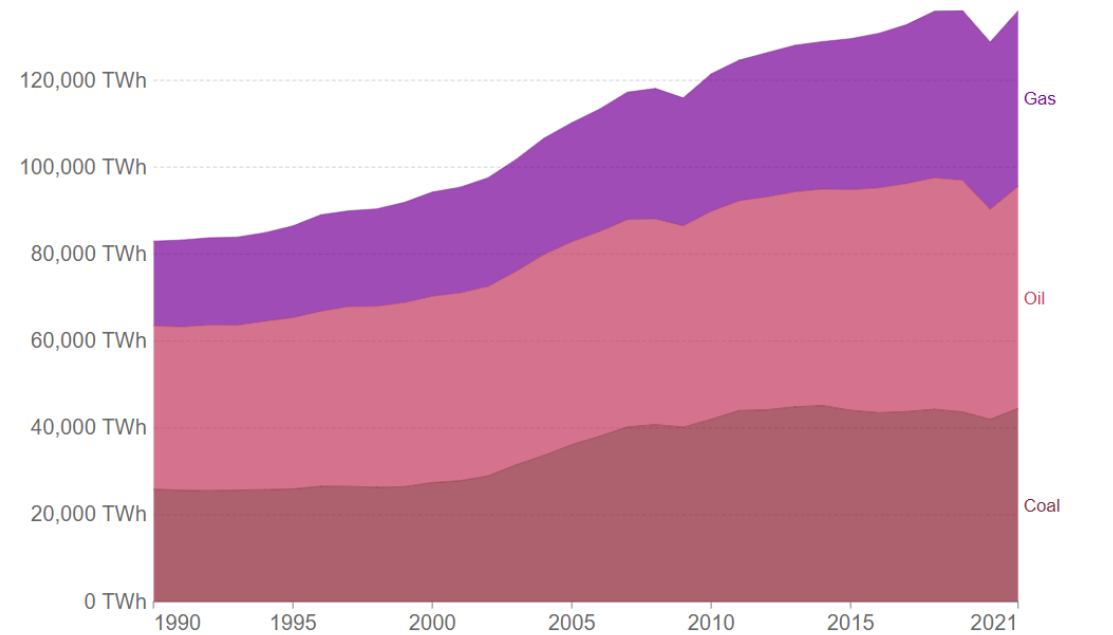
Share of primary energy from fossil fuels



Source: Our World in Data based on BP Statistical Review of World Energy (2022) OurWorldInData.org/energy
Note: Primary energy is calculated using the 'substitution method', which accounts for the energy production inefficiencies of fossil fuels.

Global fossil fuel consumption

Global primary energy consumption by fossil fuel source, measured in terawatt-hours (TWh).



Source: Our World in Data based on Vaclav Smil (2017) and BP Statistical Review of World Energy OurWorldInData.org/fossil-fuels/ • CC BY

- We have not even started the transition, yet
- With this speed 0% will be reached in ca. 200 years time

- We need to deploy very multidisciplinary and controversial actions
 - New technologies
 - New systemic thinking
 - Big cultural change
 - Consumption notably less energy and goods
 - Social interventions for low-income people and regions
 - Think globally – act locally - everywhere

There is no easy trick to solve this in short time

Mission: Act locally in our region

- Savonia educate specialists to act effectively with right values and direction, for various sectors in society
- Supply people right information about e.g. energy
- Maximize impact of RDI work by making it in ecosystemic way with industry, other enterprises, research institutions and public sector
- **EnergyCluster – North Savo**

We must do our share together

THANK YOU ALL
FOR SHARING YOUR KNOWLEDGE
TO SOLVE WICKED GLOBAL PROBLEM

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