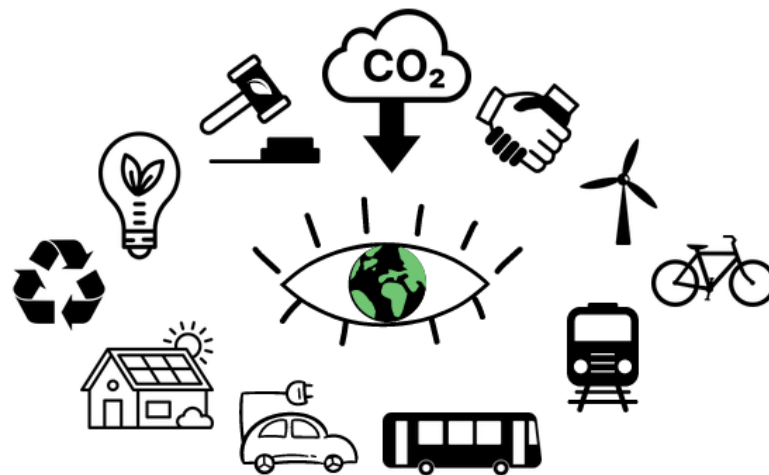


Comparison of (Best) Mitigation Measures from Nordic-Baltic countries, Belarus and Ukraine Visions and Proposals from Civil Society

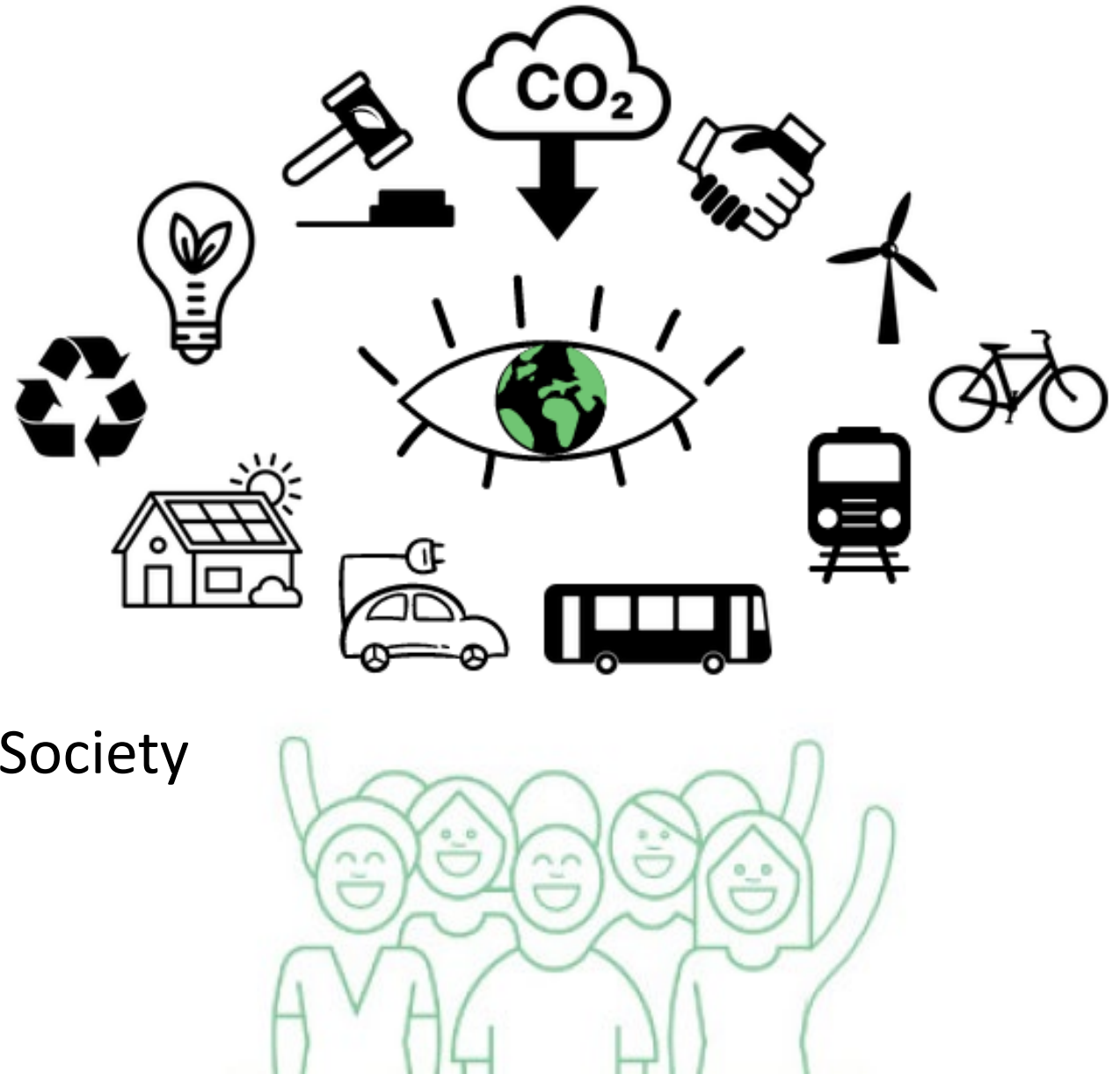


European Sustainable Energy Seminar 25-27 September, 2024 Talsi, Latvia
by Dag Arne Høystad, Norges Naturvernforbund, Norway

Proceedings: inforse.org/europe/seminar_2024_INFORSE-Europe_Latvia.htm

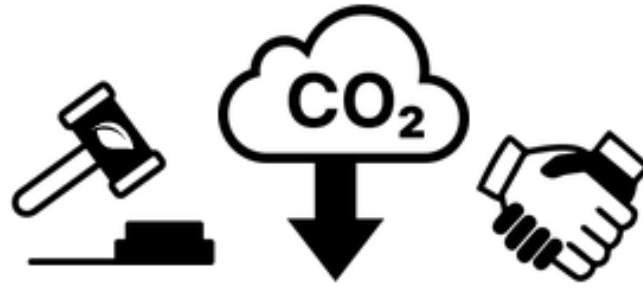
Contents:

- Climate Laws and Targets
- Carbon tax
- Renewable energy
- Fuel shift
- Prohibition
- Change of Transport Mode
- Visions and Proposals from Civil Society



	Emission	Reduced	Per capita	h ² EI	RE % energy	RE el
Belarus	60938/ 48915	-58%	6.52/5.23	0.285	7.9%	4%
Denmark	43851/ 47972	-39%	7.49/8.19	0.103	39.7%	73%
Latvia	10738 /7241	-63%	5.69/3.84	0.301	43.8%	59.4%
Lithuania	20252/ 14161	-67%	7.24/5.06	0.078	31.7%	57.2%
Norway	49200/ 33405	-18%	9.10/6.18	0.012	61.3%	95.6%
Sweden	47 817/ 6106**4	-76%	4.62/0.59	0.008	58.4%	66.9%
Ukraine	21020/ 22420	-63%	7.30/7.79	0.430	8.7%	11.1%

Climate Laws and Targets

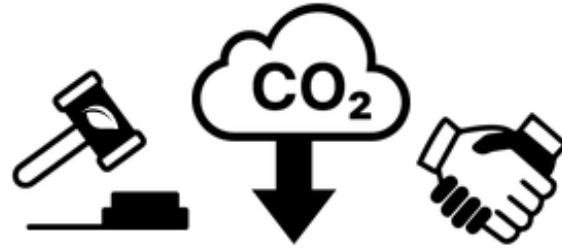


- All countries have climate laws,
 - not all include targets, annual review and independant climate council
- All countries have climate targets,
 - all need to step up for 1.5'C target
- One country is introducing limits to life-cycle GHG emissions of buildings



Country	Status	2030 target from 1990	Long-term target	Sectors etc.
Denmark ⁵	Law adopted	-70%	GHG neutral 2050	Include LULUCF, only domestic
Norway ⁶	Law adopted	-55%	-90-95% in 2050	As in NDC not LULUCF, can include reductions outside Norway
Sweden ⁷	Law adopted	Target set by Parliament	Targets set by Parliament	Up to 15% reduction outside Sweden and with carbon removal. Implementation is lacking.
Latvia	Government decree	-55%	2050 - 100%	Include LULUCF, domestic
Lithuania ⁸	Parliament decree	-70%	2040: -85% from 1990 2050: -100%	Include LULUCF & cement CO ₂ absorption, only domestic
Ukraine ⁹	Under development, the draft of the Climate law was presented in 2024	-65% (in NDC)	GHG neutral 2060 (in NDC)	Include LULUCF, only domestic

Carboen tax



- All countries have carbon taxes and fiscal measures,
 - Only one plan taxes in the sectors covered by EU-ETS
 - Only two have no VAT on public transport
 - Tax deduction of commuting promotes extra long transport in three countries
 - Road pricing only in two countries in larger cities, but for trucks in 4-5 countries
- Carbon tax rebates not used



Renewable Energy



- Solar energy is subsidised for households in 4 countries
- Local energy communities are only strongly promoted in one country
- Off-shore wind supported in several countries



Country	Targets	Status	Sectors etc.	Remarks.
Denmark ⁴⁴	4-doubling solar and wind on land, 6-doubling offshore wind 2020-2030	Agreement by Parliament	Electricity	
Norway ⁴⁵	8 TWh/y solar electricity by 2030 30,000 MW offshore wind 2040	Solar: Agreed by Parliament Off-shore wind target is government plan	Electricity	A Government commission estimated the need for 60 TWh new renewable consumption in 2030 for substitution and new industry.
Sweden ⁴⁶	No specific target			Electricity should come from fossil free sources in 2040
Latvia ⁴⁷	44% of RET by 2025	National strategy by government	Electricity	General target - fossil free energy
Lithuania ⁴⁸	100% renewable electricity 55% all energy by 2030	Legal Act	Electricity All energy	
Belarus	9,5% renewable in 2040 (from 8,3% in 2022)		All energy	
Ukraine ⁴⁹⁵⁰	27% renewable in 2030 of primary energy	Draft renewable energy action plan and draft of NECP	All energy ⁵¹	

Fuel Shift

- Replacement of old (polluting) wood stoves is supported in two countries
- Replacement of fossil fuel heating is supported in four countries (+Norway already phased it out)
- Electric cars are supported in all countries, with tax reduction or subsidy
- Fossil fuel free public transport is promoted/advancing in all countries, mostly electric trams, trains, buses
- Electric shipping is supported consistently in one country
- Fossil free construction sites are (partly) promoted in one country



Prohibition

- One country has prohibited use of fossil fuel for heating



Change of Transport Mode



- Bi-cycle infrastructure is supported in five countries, but at low level
- Public transport is supported in all countries, but with different success
- Long-distance trains, night trains are supported in two/three countries



Visions and Proposals from Civil Society

- Strong reduction of emissions and climate neutrality in 2040
- Strong energy efficiency and electrification
- Sufficiency - Build a Sustainable Society
 - Build more efficient societies that need less transport
 - Use the buildings more efficiently and renovate, less construction of new buildings
 - Use softer transport, less consuming buildings, more circular use of products, etc.
- 100% renewable energy with focus on local participation & local balance
 - Build only renewables with local participation, care for environment
 - Support energy communities and ensure local benefits
 - Optimise local balance between energy demand and supply to minimise grids
 - Establish “**no-go**” areas for wind and for solar - **instead of “to go”** areas
 - Combine renewables with other land-use: roofs of buildings, parking lots, even windmills in monoculture forests (with good EEA)



Visions and Proposals from Civil Society (II)



- Bioenergy within local sustainable levels
- Green hydrogen - only where it is no alternative
 - Only for hard-to abate sectors
 - Not for PtX for aviation, where 66% of climate effect of aviation is not from CO₂, but from vapour, particles & NOx in heigh altitudes
- CCS is not emission free and energy demanding
- NO nuclear. Nuclear is risky, and expensive



THANK YOU FOR YOUR ATTENTION

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Read more in our new publications:

- **Report: Comparison of (Best) Mitigation Measures from Nordic-Baltic countries and Ukraine, 21 pp.**
- **Policy Brief: The Best Nordic - Baltic Mitigation Measures to Combat Climate Change. 2 pp.**
- **Visions and Proposals for Better Green Recovery/Green deal in National Policies, 3 pp.**

See all publications at project website: inforse.org/europe/Better_GreenDeal_Baltic_project.htm

*Project: “Better Green Deal with CSO policy proposals, visions and scenarios for best mitigation policies for Baltic Sea Countries and Ukraine”, which is supported by the **Nordic Council of Ministers via the Prosperous Futures Program**, and by AirClim Secretariat, and INFORSE-Europe.*