The Transition to Renewable Energy and a Climate Neutral Europe

How far are we? What can we expect from European New Green Deal and other European policies?
Progress on national level, new developments with the corona crisis

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European Transition

EU Communique 17/9-20
Stepping up Europe’s 2030 climate ambition - Investing in a climate-neutral future for the benefit of our people

COM(2020)562
The energy scenario for the EU transition

Primary Energy Demand, EU-FF55-Mix Scen.30 +, Mtoe

Graph data 2005-2030: https://ec.europa.eu/energy/content/excel-files-mix-scenario_en
EU Proposals for Transition: Green Deal+Fitfor55

- Stronger Emission Trading Scheme incl. aviation: 61% reduction 2005-2030 (now 43%)
- Emissions trading (ETS) for shipping + special ETS for road transport + buildings in 2026
- Stronger energy taxation directive incl. aviation (need unanimous agreement)
- Carbon Border Adjustment (import) tax on e.g. steel, cement, fertiliser, alu., electricity in ‘26
- Updated effort sharing with national reductions, average 40% reductions 2005-203 (now 30%)
- Updated Renewables Directive: new 2030 targets, 40% in average (from 32% today)
- Updated Energy Efficiency Directive: new 2030 targets, 9% higher average reductions
- Stricter CO2 limits for new cars, 0 from 2035
- More charging for electric and H2 cars etc.
- Low-greenhouse gas fuels, biofuels, e-fuelf for aviation, develop zero emission aircrafts
- More sustainable land-use and more sustainable biomass
- New Social Climate Fund with 25% of revenue from ETS in buildings and transport
- Larger EU Modernisation Fund and Innovation Fund
- Circular economy Action Plan (2020)
- Earlier (2020) agreements for green budget, green recovery fund etc.

From: 'Fit for 55': delivering the EU's 2030 Climate Target on the way to climate neutrality, COM(2021) 550
Fit for 55 – EU PR

- Climate Social Fund
- Emissions trading for road transport and buildings
- EU Emissions Trading System - for power, industry, maritime & aviation
- Land Use, Land Use Change, and Forestry Regulation
- EU Forest Strategy
- CO2 emissions standards for cars and vans
- Alternative Fuels Infrastructure Regulation
- Effort Sharing Regulation
- Energy Taxation Directive
- Renewable Energy Directive
- Energy Efficiency Directive
- Carbon Border Adjustment Mechanism
- ReFuelEU Aviation Initiative
- FuelEU Maritime Initiative
EU Climate & Energy Policy

Internal Market
- Intern electr mar- ket dir
- Intern gas mar- ket dir
- En.- tax dir.

Environment Climate
- CO$_2$ emm- quota ETS
- RE- directiv e

EU Green Deal with Fitfor55
- Eco- design dir
- Build EPBD dir
- Energy Effic. dir

Euratom Nuclear
- Car emiss ions dir.
- Fuel emiss ions dir.

Lisbon: Env. Energy
- Support: Horizon Struct-funds,
- Soc.Climate F.
- Modernisat.F
- Recovery.R.Facility
- Dev.Assist.
etc.

State aid guide lines
- CBAM Border Adjust ment
National Actions

• Coal phase out in power production:
  • Austria, Belgium, Sweden: until 2020 (done)
  • France, Ireland, Italy, Portugal, UK until 2025
  • Denmark, Netherlands, Greece, Hungary, Slovakia, Spain, (N-Macedonia) by 2030
  • Germany, maybe Czech Rep. by 2035/2038

• Energy Tax increases: Germany and many others

• Subsidies only for sustainable heating: Bulgaria, Germany, Ireland, Luxembourg, Malta, Netherlands, Norway, (Sweden),

• Sustainable transport plans: ?? (plans for green transport seldom reduce car use)

• Climate laws: Scandinavia, UK, France, Germany, Netherlands (Austria, Bulgaria, Spain, Latvia, Slovenia, Croatia, Belgium, Portugal, others)

• 100% renewable energy targets until 2050: Denmark (Austria, Lithuania, Spain, others)

• Stop fossil fuel exploration: Spain, Denmark, France, Ireland (+ others)

• Support for energy communities: (to discussed tomorrow)
Thank you

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www.inforse.org/europe

INFORSE-Europe Seminar:
www.inforse.org/europe/seminar_2021_INFORSE-Europe_DK.htm