EU Energy Policy &
Fit for 55 package and transport

Dr. Tudor Constantinescu
Principal Adviser
DG Energy, European Commission

13 January 2022
A changing energy landscape towards 2050

Source: 2015: Eurostat, 2030-2050: PRIMES model

Note:
• includes manufactured gases,
• ** includes waste gas

2018 (1648 MToe)
2050 (1213 Mtoe)

(1) Changing demand

(2) Changing energy carriers

(3) Massive increase RES-E

(4) Renewable and low-carbon gases

Source: Based on EU28 Eurostat/LTS 1.5LIFE/TECH scenarios

Source: Mtoe, based on EU28 Eurostat/LTS 1.5LIFE/TECH scenarios

(1) Changing demand

(2) Changing energy carriers

(3) Massive increase RES-E

(4) Renewable and low-carbon gases

Source: 2015: Eurostat, 2030-2050: PRIMES model

2015
2020
2030
2050

Source: 2015: Eurostat, 2030-2050: PRIMES model

Note:
• includes manufactured gases,
• ** includes waste gas

Source: 2015: Eurostat. 2030-2050: PRIMES model

Note:
• includes manufactured gases,
• ** includes waste gas
Laying the foundation for a climate-neutral energy system – Green Deal objective

Energy system integration Strategy

1. A more circular and energy efficient energy system
2. A deep electrification of consumption, based on renewable electricity
3. The use of renewable and low carbon fuels in hard-to-abate sectors

A European Hydrogen Strategy

1. Investment agenda
2. Supply & demand
3. Market & infrastructure
4. Innovation
5. International cooperation
The Fit for 55 Package – Overview

The package aims to make the EU ‘fit for 55’ and deliver the transformational change needed in a
• fair,
• cost-efficient and
• competitive way.

It cements the EU’s global leadership by action and by example in the fight against climate change.
Fit for 55 and initiatives relevant for transport

✓ RED II proposal:
  • Substantial increase in renewable energy from the current 32% target today to 38%-40% by 2030. RES H2 50% in industry and 2,6% in transport (RFNBOs). Certification system for renewable and low-carbon fuels.

✓ Energy Efficiency Directive
  • a more ambitious binding annual target for reducing energy use at EU level. Overall target: new EU binding target for final and primary energy consumption (36% and 39%)

✓ Energy Taxation Directive:
  • preferential tax rates for the use of renewable and low carbon energy products, incl. fuels

✓ Hydrogen and gas markets decarbonisation package
Fit for 55 and initiatives relevant for transport

- **Alternative Fuels Infrastructure Regulation**: 12.9 target for the reduction of the greenhouse GHG emissions for transport fuels, incl. at least one electric charging each 60km and h2 refuelling station each 150 Km

- **FuelEU aviation and maritime proposals**: stimulate the uptake of sustainable fuels, including hydrogen

- **CO2 Emissions standards for cars and vans**: more ambitious CO2 emission targets for new cars and vans from 2030 onward.

- **EU Emission Trading Scheme**: extending and deepening the scheme, also production of H2 with electrolysers to receive free allowance and carbon contracts for difference

- **Revision of Energy Performance Buildings Directive**: strengthen the support for charging infrastructure for electric vehicles in buildings and parking space for bicycles
Thank you
tudor.constantinescu@ec.europa.eu