Transition Energétique en Europe: Green Deal
Agenda

- Setting the context: the European Green Deal
- Maximising impact of ongoing R&I projects: Bridge
- The Innovation Outlook: an evidence-based analysis of R&I priorities
  - Rationale
  - Structure
  - Criteria of the analysis
Setting the context: the European Green Deal

“The European Green Deal is our new growth strategy. It will help us cut emissions while creating jobs.”

Ursula von der Leyen, President of the European Commission

“We propose a green and inclusive transition to help improve people’s well-being and secure a healthy planet for generations to come.”

Frans Timmermans, Executive Vice-President of the European Commission
The European Green Deal

Transforming the EU’s economy for a sustainable future

- Increasing the EU’s Climate ambition for 2030 and 2050
- Supplying clean, affordable and secure energy
- Mobilising industry for a clean and circular economy
- Building and renovating in an energy and resource efficient way

And leave No one behind

- A zero pollution ambition for a toxic-free environment
- Preserving and restoring ecosystems and biodiversity
- From ‘Farm to Fork’: a fair, healthy and environmentally friendly food system
- Accelerating the shift to sustainable and smart mobility

Financing the transition
Leave no one behind (Just Transition)

The EU as a global leader
A European Climate Pact
Green Deal Timeline for the energy sector

2020

Jan

Financing the transition

Green Deal Investment Plan (14.01.20)

Leave no one behind (Just Transition)

Just Transition Mechanism (14.01.20)

March

Increasing the EU's Climate ambition for 2030 and 2050

2050: Climate Law (04.03.20)

2030: Impact assessments (ongoing)

Mobilising industry for a clean and circular economy

Industrial Strategy (10.03.20)

Circular Economy Action Plan (11.03.20)

June

Mobilising research and fostering innovation

H2020 Green Deal Call Innovation Fund (1st call)
Green Deal Timeline for the energy sector

2020

June

- Supplying clean, affordable and secure energy
- Strategy for smart sector integration (including Hydrogen Strategy)
- Assessment of the final National Energy and Climate Plans (NECPs)
- EU strategy to reduce mineral methane emissions

Q3

- Building and renovating in an energy and resource efficient way
- Renovation Wave initiative for the building sector
- European Climate Pact

Q4

- Accelerating the shift to sustainable and smart mobility
- Strategy for smart and sustainable mobility
- Supplying clean, affordable and secure energy
- Strategy on offshore renewable energy
- Revision of the Trans-European Networks for Energy (TEN-E) regulation
The European Green Deal – Climate Law

The EU will:  
Become climate-neutral by 2050

Reaching this target will require action by all sectors of our economy:

• Energy
• Buildings
• Mobility
• Industry
• Agriculture

→ For reaching these new targets, increased expectations are set on clean technologies

→ R&I to be a driver of the European Green Deal
Building on the success of the EU’s past flagship research and innovation programmes, the Commission proposes to increase investment in research-innovation and digital by allocating **€ 114.2 billion** for the future Multiannual Financial Framework.
Pillar 2

Global Challenges & Industrial Competitiveness: boosting key technologies and solutions underpinning EU policies & Sustainable Development Goals

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Joint Research Centre supports European policies with independent scientific evidence & technical support throughout the policy cycle.
Preparatory work: the “Clean Energy for All Europeans” package (2016)

**Energy Union Governance**

**Energy Efficiency**
- 32.5%

**Renewables**
- 32%

**Electricity Market Design**
- Regulation and Directive on internal electricity market;
  - Regulation on risk-preparedness, ACER regulation

**Enabling Framework**

- Innovative
- Inter-connected
- Inclusive
- Safe for all

**Socially fair**

- Digital
- Investment-friendly
Preparatory work: “Clean Planet for All” long term strategy (2018)

A vision for achieving net-zero greenhouse gas emissions in the Union by 2050 through a socially fair and cost-efficient transition.
Figure 2. Fuel mix in Gross Inland Consumption
Focusing R&I on the Green Deal priorities

• **Evidence-based methodology** linking the technology expectations from the 2050 Long-term strategy to the analysis on competitiveness.

• **Aim**: better inform the prioritization and make a link with impact

• **Output**: policy document with recommendation to be published alongside an in depth analysis document.
Criteria to prioritise

Criteria of the analysis:

• **Technology status** (current and expected, gaps)
• Value chain analysis per technology
• EU industry on the world map
Conclusion

• All the technologies necessary for 2050 are **not yet available** or **scalable** enough to cost-effectively achieve our targets.

• **Investments needs** remain significant – even for the 2030 ambitions.

• To meet the challenge, it will be necessary to mobilize both the **public and private investors**, and foster public acceptance and engagement to make sure that we **do not leave anyone behind**.

• The Green Deal is the **green** thread that will run through all our policies – from transport to taxation, from food to foreign policy, from industry to infrastructure to ensure that **Europe leads the way and harvests the potential**.