The European Commission's science and knowledge service The Joint Research Centre Science and Research for climate/energy policies and a circular economy Dr. Christian Thiel

27

3×





- Role of the Joint Research Centre
- European Green Deal
- Clean, affordable and secure energy
- Clean and circular economy
- Conclusions

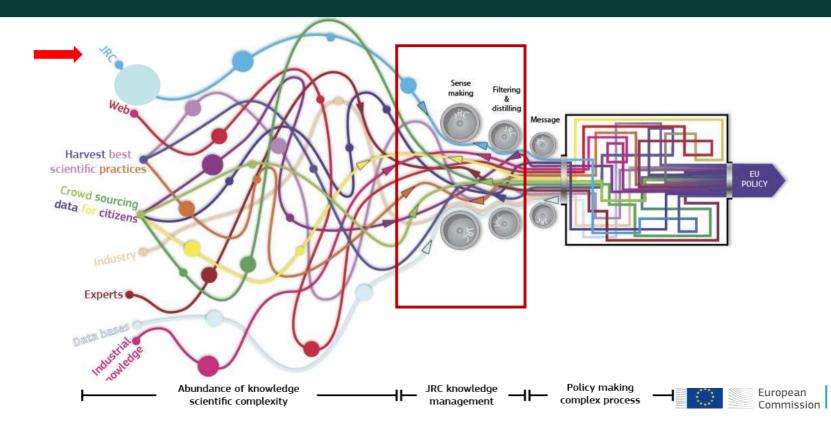
Mission of the Joint Research Centre

Support EU policies with independent evidence throughout the whole policy cycle





JRC – EU Commission Science and Knowledge Service



JRC activities in Energy, Transport and Climate

- Energy efficiency
- Renewables
- Energy storage
- Energy security, distribution, markets
- Sustainable Transport
- Economics of climate change, energy and transport
- Air quality and climate
- Knowledge for the Energy Union

- Desktop research
- World-leading laboratories
- Open access data
- Open access models and tools
- Policy related science
 - Support to impact assessments
 - Pre-normative research
- **Standardisation**



- Role of the Joint Research Centre
- European Green Deal
- Clean, affordable and secure energy
- Clean and circular economy
- Conclusions

European Green Deal

The European Green Deal is about improving the well-being of people. Making Europe climate-neutral and protecting our natural habitat will be good for people, planet and economy. No one will be left behind.

The EU will:



Become climate-neutral by 2050



Protect human life, animals and plants, by cutting pollution

Help companies become world leaders in clean products and technologies



Help ensure a just and inclusive transition



European

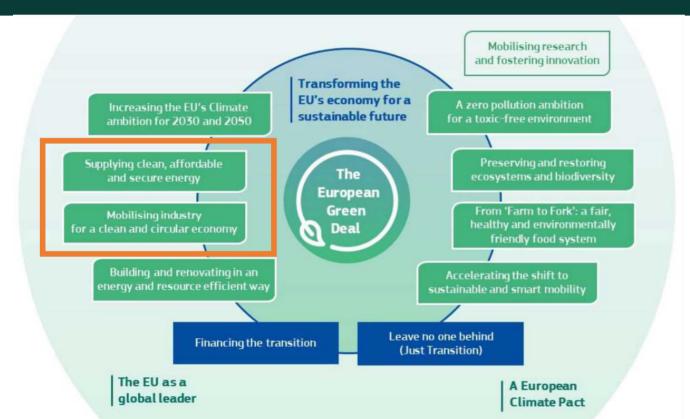
COM(2019)640 "The European Green Deal" & supporting documentation

Elements of the European Green Deal





Elements of the European Green Deal

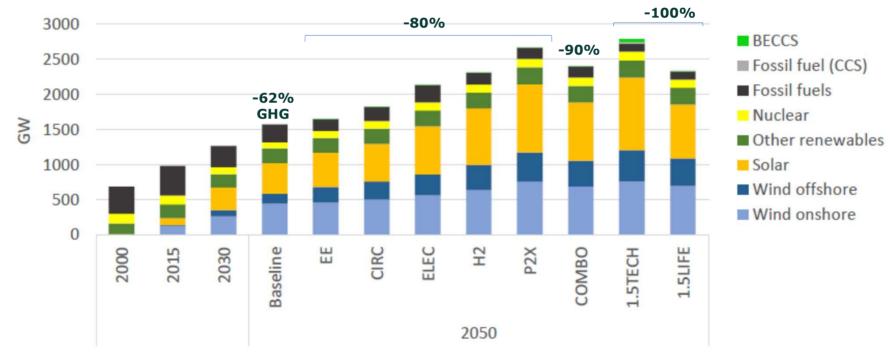






- Role of the Joint Research Centre
- European Green Deal
- Clean, affordable and secure energy
- Clean and circular economy
- Conclusions

Scenarios for the long term vision



COM(2018)773 "A Clean Planet for all - A European strategic long-term vision for a prosperous, modern, competitive and climate neutral economy" & supporting documentation



Clean energy and mobility solutions ready for deployment



First solar flight around the world. Airplane flying over a concentrated solar power plant near Seville on its way to Cairo

Still more research and demonstration is needed



Carbon Capture, Utilisation and Storage



Sustainable alternative fuels



Digital transformation

C

O

Citizen engagement



Joint effort is needed





SETIS

Strategic Energy Technologies Information System

European Commission > SETIS



SETIS in the Energy Union landscape Actions towards implementing the Integrated SET Plan

Low Carbon Energy Technologies Publications

Calendar

LOW CARBON ENERGY OBSERVATORY evelopment and

Low Carbon Energy Observatory's 2018 reports on technology development and technology markets available on SETIS



- Role of the Joint Research Centre
- European Green Deal
- Clean, affordable and secure energy
- Clean and circular economy
- Conclusions

Avoid waste, increase circularity





- Role of the Joint Research Centre
- European Green Deal
- Clean, affordable and secure energy
- Clean and circular economy
- Conclusions

Conclusions



- We must reduce our emissions further and faster
- Low carbon solutions are ready for mass market deployment
- Gaps remain that need to be addressed by **bold** R&D initiatives
- We need citizen engagement and empowerment
- Let us work together!



Stay in touch

christian.thiel@ec.europa.eu



EU Science Hub: ec.europa.eu/jrc



Twitter: @EU_ScienceHub



Facebook: EU Science Hub - Joint Research Centre



LinkedIn: Joint Research Centre



YouTube: EU Science Hub

