



European
Commission

JRC PORTFOLIO 01

SHAPING THE GREEN TRANSITIONS FOR A SUSTAINABLE AND FAIR EUROPE

Green transitions foster welfare and well-being through a new sustainable economic model, while ensuring socio-economic systems remain within ecological planetary boundaries. Current production and consumption patterns are unsustainable and integrated actions are needed to shift towards sustainability. An integrated systems approach, promoted by the European Green Deal (EGD), helps evaluate the fulfilment of environmental targets, while considering the socio-economic context. It supports policy coherence and complementarity, and can test green transition policy options to maximise positive impacts.

The portfolio aims to:

Quantify progress towards the European Green Deal goals and targets across all EGD domains addressing impacts and benefits within and beyond European Union (EU) borders

Identify how we can best address synergies, trade-offs, and gaps in policies via integrated approaches and life cycle assessment of value chains

Identify what needs to be done to deliver a truly green and regenerative economy, that gives back to the planet more than it takes, remaining within planetary boundaries, in a socially inclusive, fair and just manner

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Delivering on anticipation, integration and impact of EU policies

- ▶ developing guidance for the integrated assessment of green transitions and helping create consistency in definitions of sustainability and assessment,
- ▶ further developing life cycle assessment-based approaches to address transitions related to supply chains related transitions in an integrated and holistic manner,
- ▶ analysing of drawbacks, barriers and gaps for green transitions, 'best practices' and 'successful cases',
- ▶ providing integrated methodologies and conceptual frameworks to help anticipate and support the development and use of sustainability principles and criteria, such as those of the EU taxonomy, the safe and sustainable by design of chemicals and materials, etc.,
- ▶ developing data, indicators, and other evidence, based on models, foresight and other methods, observations and tools to support the design, implementation, and monitoring of EGD policies.

Time frame

The main **short-term ambition** of this portfolio is to provide a gap analysis of Green Deal policies as a legacy document to serve as input with a **longer-term added value** (for the next Commission). This flagship document should be **delivered by mid-2024**, to be effective as a major driver for the 2025-2029 Commission.

Main partners

Partner DGs

AGRI, CLIMA, CNECT,
ECFIN, EMPL, ENER, ENV,
ESTAT, FISMA, GROW,
INTPA, MARE, MOVE,
NEAR, REGIO, RTD, SANTE

Selected stakeholders

EEA, ECHA, EFSA, FAO,
OECD, UN, UNEP, UNESCO,
UN HABITAT

Green transitions

Sustainable Development Goals

Bioeconomy

Blue economy

Taxonomy and EU financial instruments

EGD Gap analysis

Consumption footprint

Life cycle assessment for policy

Farm2Fork

Green claims

Biomass

Primary production

Forests

Forestry

Forest sector

Find out more



SHAPING THE GREEN TRANSITIONS FOR A SUSTAINABLE AND FAIR EUROPE

<https://joint-research-centre.ec.europa.eu/jrc-research-portfolios/green-transitions>

Science for policy

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PRINT
PDF

ISBN 978-92-76-99460-2
ISBN 978-92-76-99459-6

doi:10.2760/252365
doi:10.2760/08

KJ-04-23-201-EN-C
KJ-04-23-201-EN-N