IPAC

International Programme for Action on Climate

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UNECE Expert Forum for Producers and Users of Climate Change-related Statistics, 3 September 2021

IPAC - International Programme for Action on Climate

Launched at the OECD Ministerial Council Meeting in May 2021

Objective

- Support countries' efforts to progress towards net-zero GHG emissions and a more resilient economy by 2050
- Help countries strengthen and coordinate their climate action through regular monitoring, policy evaluation and feedback on results and good practices
- Complement and support the UNFCCC and Paris Agreement

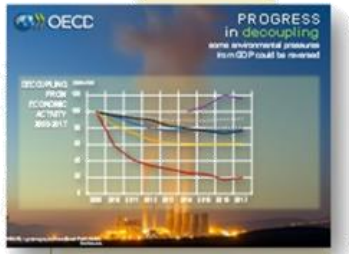
Two-year pilot implementation under a broader Horizontal Project on Building Climate and Economic Resilience

Open to OECD members and selected non-Members

Provides fact-based operational tools with policy advice, and indicators as a cornerstone

IPAC components

Annual
CLIMATE ACTION MONITOR

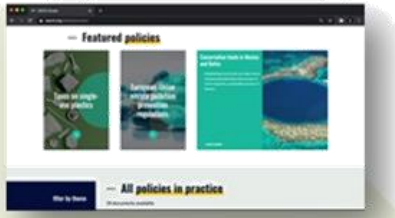


- Progress towards
  - ✓National and Regional climate policy goals
  - ✓NDCs
  - ✓NAPs
  - ✓LTS

COUNTRY NOTES

- Environmental Performance Reviews
- Policy advice
- Examples of good practices
- Economic surveys
- In-depth energy reviews

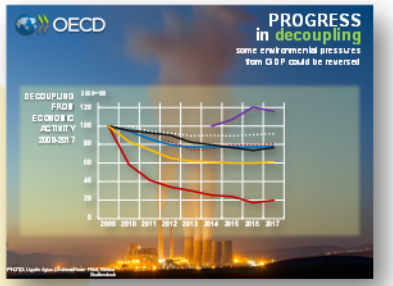
DASHBOARD
of climate-related indicators



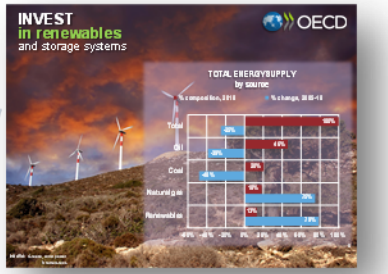
online interactive platform for
DIALOGUE & MUTUAL LEARNING
across countries

IPAC Technical Expert Group

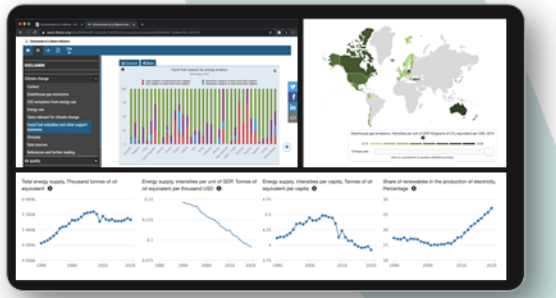
Annual
CLIMATE ACTION MONITOR



COUNTRY NOTES



DASHBOARD
of climate-related indicators



Advising on:

- Conceptual framework
- Selection of IPAC indicators
- Guidance on use and interpretation of indicators
- Methodological and measurement priorities

OECD approach to climate indicators

Characteristics

- **Flexible**
  - Easy to adapt, improve and develop further
- **Pragmatic**
  - Indicator set of manageable size
  - Use of existing work → refined, amended
- **Balanced**
  - Balanced coverage CC dimensions
  - Balance between relevance for international work and for countries

Selection criteria

- **Policy relevance and utility for users**
  - Representative, clear, easy to communicate, actionable, linked to reference values
- **Analytical soundness**
  - Solid, transparent methodology, based on international standards/consensus
- **Measurability**
  - Data availability and quality (timeliness, comparability, frequency, geographic coverage), cost-effectiveness

Monitoring climate action and progress towards climate goals
Foundations and overall indicator architecture

OECD data repository for climate action: OECD, IEA, ITF, NEA statistical databases, accounts, indicators

Core Set of Environmental Indicators

Key Environmental Indicators

Sectoral Environmental indicators

Green Growth indicators

GG Headline Indicators

UN climate indicators
UNECE, UNSD, SDG

Other international indicators and monitoring processes: IMF, UNFCCC, …

Information on policies, objectives, good practices

Country specific indicators

OECD Set of Climate-Related Indicators

Core indicators

Complementary indicators

IPAC DASHBOARD

COUNTRY NOTES

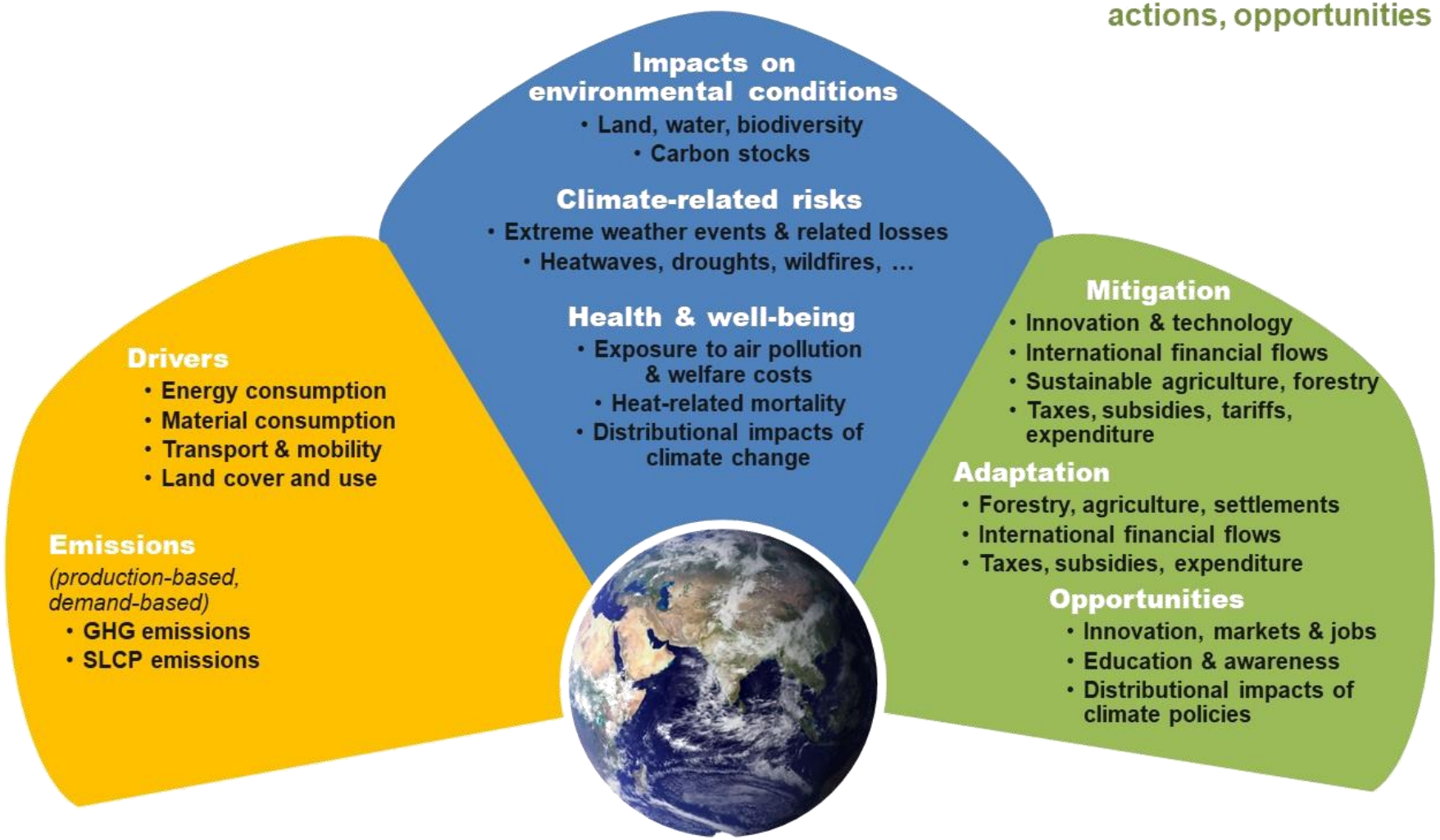
CLIMATE ACTION MONITOR

Conceptual measurement framework

Pressure
Drivers & emissions

State
Impacts & risks

Response
Policy responses, actions, opportunities



Coherent with UN frameworks for

- Climate change related statistics and indicators (UNECE)
- Global Set of Climate Change Statistics and Indicators (UNSD)

Note: selected examples

Pressure indicators: Drivers and emissions

Drivers

- Energy consumption and use
- Material consumption and use
- Transport and mobility
- Land cover and use

Emissions

Production based, demand based

- Emissions trends, intensities, trajectories
  - Greenhouse gases (GHG), CO_2
  - Short-lived climate pollutants (SLCP)

→ **Policy levers, policy outcomes**

State indicators: Impacts and risks

Impacts on environmental conditions

- Water, land, soil carbon stocks
- Biodiversity (placeholder)
- Temperature anomaly, sea level rise, precipitation, atmospheric concentrations

Climate-related risks

- Extreme weather events, economic losses, deaths/missing persons

Climate-related vulnerabilities and impacts on health and well-being

- Heat related mortality
- Distributional & social aspects of climate change (placeholder)

Response indicators:
Policies, actions, opportunities

Mitigation

- Innovation and technology
- Sustainable agriculture and forestry
- Carbon pricing, climate taxation, subsidies, tariffs
- Expenditure, budgets, financial flows
- Climate policy stringency
- Other policies and measures

Adaptation and resilience

- Innovation
- Expenditure and financial flows
- Forestry and human settlements
- Other policies and measures

Socio-economic opportunities

- Business opportunities, markets and jobs (placeholders)
- Education, training, awareness (placeholders)
- Distributional & social aspects of climate policies (placeholder)

Preliminary IPAC Dashbord (under review)

Emissions trends and trajectories

- Distance to targets
- Emission intensities
- Emission structure
- Net-zero trajectories

Impacts and risks

- Weather related impacts
- Extreme events
- Inequalities in exposure to climate risks

Actions and opportunities

- Move towards non-fossil energy sources
- Use of carbon pricing and climate related taxation
- Climate policy stringency

Around 10 key indicators derived from broader set

- Provide an overview of countries' progress and trajectories towards carbon neutrality
- Inform the annual Climate Action Monitor
- Linked to benchmarks and targets when possible (Nationally-Determined Contributions (NDCs) and Long-term Strategies (LTS) for emissions)

Preliminary indicator development agenda

Ongoing and planned measurement work (under review)

- GHG emissions: Demand-based; Quarterly; Subnational
- Distance to targets; net-zero trajectories
- Climate-related risks and vulnerability
- Climate policy index
- Net effective carbon rates
- Climate-related innovation
- Consistency of financial flows with climate policy goals

Proposals for indicator development (under review)

- Socio-economic inequality in exposure to climate-related risks
- Climate-related public budget and government expenditure
- Climate adaptation policy instruments
- Labour market / private sector responses to climate policy goals
- Climate action perception, etc.

Next steps

Fist edition of preliminary Dashboard

Progress report on Annual Climate Monitor

Interactive web-page

→ COP26

Further development and refinement of indicators

- Updated Dashboard & refined indicator set (mid-2022)
- Continued development work

Preparation of Country Notes (2022)

Establishment of Interactive Platform for dialogue and mutual learning (2022)

IPAC

THANK YOU!

OECD work on climate
https://www.oecd.org/climate-change/

OECD international repository in support of climate action
https://www.oecd.org/environment/climate-data/

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https://www.oecd.org/climate-change/IPAC/
https://www.oecd.org/climate-change/ipac-fr/

HP on Climate and Economic resilience
https://www.oecd.org/env/cc/brochure-horizontal-project-on-climate-and-economic-resilience.pdf