Building capacities to inform short-term choices toward deep decarbonization

We all know what we want to achieve: the challenge lies in determining how to do it, what is the necessary sequence of actions, starting today, and doing it in a way that increases the likelihood of implementation.

The DDPI initiative encourages the development and the structuring of a global scientific community of analysts working on the assessment of country-driven deep decarbonization strategies compatible with the Paris Agreement based on detailed sectoral analysis and stakeholder engagement.

Ongoing local projects

DDP LAC
Argentina, Colombia, Costa Rica, Ecuador, Mexico And Peru

DDP BIICS
Brazil, China, India, Indonesia, and South Africa

DDP EU
Europe’s 28 member states

Next in the DDP initiative

DDP Africa, DDP-Central Asia, DDP with Companies, DDP with The Investment Community

The storylines

Describes the evolution of decarbonization drivers in the language of decisionmakers covering the economic, demographic, technical, organisational, and behavioural dimensions.

The dashboard

Provides a quantitative representation of the pathway, showing its components and effects, through selected indicators. These are the most relevant for comparison and permit structuring a policy debate.

The pathways

Inform countries “long-term low emission development strategies” and the revision of NDCs to successfully implement the Paris Agreement.

At a country-level

The common approach allows for comparison in a transparent way, enabling a constructive debate, peer learning and mutual understanding of other countries’ strategies to identify useful cooperation and investment needs (e.g. joint R&D efforts).

The DDPI pathways design framework (cf recent publication in Nature Climate Change)

Storylines

Country-driven strategies

Sectors and drivers of decarbonisation

1. Demography and economics
2. Human settlement, land development and spatial organisation
3. Technological development of vehicles
4. Fuel generation and carbon content
5. Penetration of alternative motorizations in the car stock
6. Income dedicated to transport, modal distribution and costs
7. Speed, infrastructure and time dedicated to transport

Comparison quantitative assessment tools, including national-scale models

Comparison scenario data reporting

Pathways

Constructive debate and cooperation

Global-scale enabling conditions

National policy packages

Infrastructure and investment needs

Describing explicitly the physical context of alternative trajectories towards the objective

Articulating deep decarbonization with domestic development priorities

Inequalities in South Africa

Effectively reaching net zero requires a tailor-made approach

https://ddpinitiative.org