Decarbonisation and intergovernmental fiscal relations

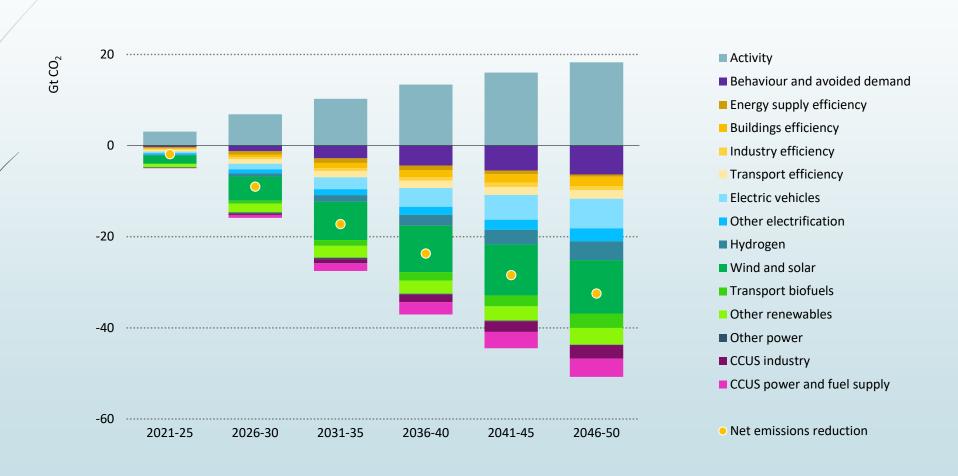
Presentation by Teresa Ter-Minassian at the 19th annual Meeting of the Network on Fiscal Relations across Levels of Government

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Outline

- This presentation draws on a joint paper with Luiz de Mello
- The case for subnational involvement in targeted reductions of greenhouse gas emissions (henceforth decarbonisation)
- ► Main subnational policy options in spending, revenues, and regulation
- The case for, and main tools of, national involvement in subnational decarbonization efforts
- Strengthening intergovernmental cooperation in the decarbonization agendas

Achieving carbon neutrality by mid-century will require major reductions in carbon emissions



Main reasons for SNGs' involvement in decarbonisation

- The current level and projected increase in CO₂ emissions vary widely not only across, but also within, countries. Accordingly, required decarbonisation efforts will differ among regions and localities, entailing different costs and benefits
- By virtue of their knowledge of local conditions, SNGs need to be involved in the design and implementation of such efforts
- Most importantly, SNGs have sole or shared responsibilities in policy areas relevant for decarbonisation
 - Spending
 - Investments
 - Revenue mobilization
 - Regulation

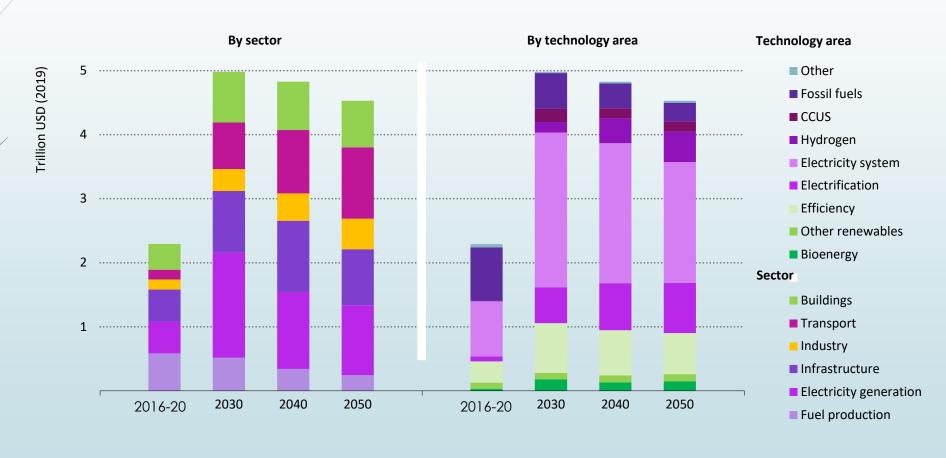
Subnational responsibilities in spending areas relevant for decarbonization (I)

- In the electricity sector, SNGs can influence production, pricing and investment decisions of their SOEs operating in the energy sector, as well as the energy efficiency of street lighting and district heating
- In the transport sector, they can promote
 - increased use of urban and regional public transport, and of railways for long-haul transport
 - electrification of transport systems and light vehicles, and increased use of biofuels and hydrogen in heavy vehicles and aviation; and
 - behavioural changes to reduce demand for fossil fuels (e.g., less commuting, greater recourse to carpooling, increased use of low- or non-emitting vehicles, such as bicycles).

Subnational responsibilities in spending areas relevant for decarbonization (II)

- In the residential and commercial buildings sector, SNGs can
 - directly influence carbon emissions from low-cost public housing by adhering to appropriate standards for the sourcing and efficiency of energy in new buildings, and by retrofitting old ones; and
 - promote the decarbonisation of **private housing** through their taxation, subsidization, and regulatory policies
- In the land use area, SNGs can promote decarbonisation by
 - limiting or banning the mining of coal and the exploration of fossil fuels in their respective jurisdictions
 - safeguarding existing forests, which are important carbon sinks;
 - expanding urban green spaces; and
 - limiting urban sprawl through regulation
- SNGs can also promote decarbonisation through actions affecting their own use of energy

Investments needed for carbon neutrality by mid-century



Subnational investments in green infrastructure and related challenges

- SNGs will have to bear the brunt of such investment effort; they accounted on average for 69% of climate-related public investments in OECD countries in 2019. However, these investments were equivalent to only 0.4% of GDP at the subnational level
- The additional investment effort will entail substantial funding, financing, and governance challenges for SNGs:
 - Additional own revenue mobilization
 - ► Fiscal rules allowing creditworthy SNGs to access appropriate financing sources
 - Improved debt and asset management capacities at the subnational level; and
 - Addressing the pervasive flaws in the PFM and PIM systems of most SNGs

Options to mobilize subnational own revenues for decarbonization

Green taxes

- Own carbon taxes or surcharges on national ones
- Emission trading systems
- Taxes or surcharges on the use of fossil fuels
- Vehicle taxes
- Taxes on electricity consumption
- Land value capture taxes
- User fees
- Other subnational revenue handles to fund green investments
- Some SNGs use tax credits to promote decarbonisation

Subnational regulation for decarbonisation

- SNGs exercise regulatory powers for decarbonisation purposes mainly in the areas of transport, land use and buildings
- In the **transport** area, they can shape the design of public transport systems; incentivize the use of fuel-efficient means of transport through dedicated lanes and pedestrian zones; and set vehicle emission standards in their jurisdictions
- In the land use area, they can affect the amount of land available for different uses, as well as the degree of urban sprawl
- In the **buildings** area, they can affect energy efficiency by setting appropriate standards for energy efficiency of new buildings; and by addressing the split incentives of landlords and tenants to invest in energy-efficient retrofitting of older buildings

Why national governments (NGs) need to be involved in subnational activities that impact decarbonisation

- Main reasons for national involvement in subnational activities relevant for decarbonization
 - Because they are responsible for defining and delivering on any international commitment to reduce emissions
 - To avoid or at least limit any significant cross-border spillovers of subnational activities that impact decarbonization, if adverse, and support them, if favourable
 - To prevent a race to the bottom in the use of subnational taxation or regulatory powers affecting decarbonisation
 - Because NGs are better placed than SNGs to mitigate asymmetric costs of decarbonisation across the national territory; and
 - Because NGs have greater financial resources and technical expertise to support subnational investments in decarbonisation
- In practice, national governments' involvement varies significantly across countries

Possible forms of national involvement

- Setting nationwide minimum standards for public and private activities that have significant impact on emissions, leaving to SNGs to go beyond such standards, if they so wish
- Supporting subnational own revenue mobilisation efforts for decarbonisation
- Special purpose transfers to mitigate energy transition costs, and capital grants for subnational investments in green infrastructures
- Facilitating sustainable financing for subnational investments in decarbonization, through the reform of fiscal rules and the creation of national financial institutions specialised in the financing of creditworthy subnational investments

Intergovernmental cooperation in decarbonization policies

- An effective alignment of national and subnational decarbonisation policies requires open and constructive intergovernmental dialogue
- International experience shows that the institutionalization of such dialogue through the creation of intergovernmental cooperation fora is important to its effectiveness
- Both high-level vertical cooperation and more technical sectoral cooperation for a are needed for an effective alignment of national and subnational decarbonization policies
- Effective horizontal cooperation in decarbonisation efforts is especially important among the constituent municipalities of metropolitan areas
- Cooperation for a can help promote sharing of knowledge, good practices, successful and unsuccessful experiences, and can generate positive demonstration effects.

Thank you for your attention!