Making Long-Term Low GHG Emissions Development Strategies a Reality

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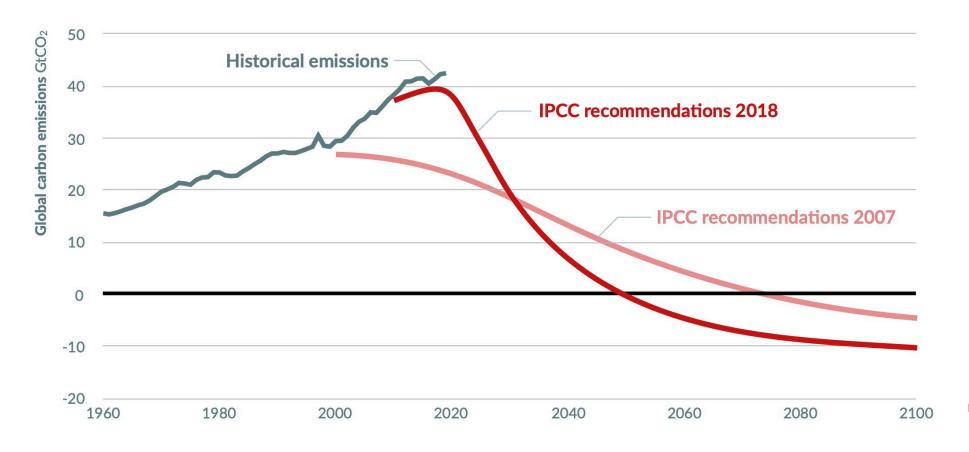
The case for ongoing revisions of LTSs beyond 2020

Harmonised revision cycles of LTSs and NDCs can improve the alignment of a country's long-term vision and medium-term targets and make sure that strategies are grounded in the latest science.



The Paris Agreement's temperature limit and science's call for action

The latest scientific evidence on long-term pathways unambiguously demonstrates the need to initiate a transition toward a decarbonised economy as fast as possible to limit global warming to 1.5°C above pre-industrial levels.



Context: Pathways of global CO₂ emissions recommended by the IPCC in the Fourth Assessment Report of 2007 (445 to 490 ppmCO₂eg leading to 2-2.4°C) and by the IPCC special report on 1.5°C in 2018 for low- and no-overshoot scenarios leading to 1.5°C increase (only the average of the ranges are shown).



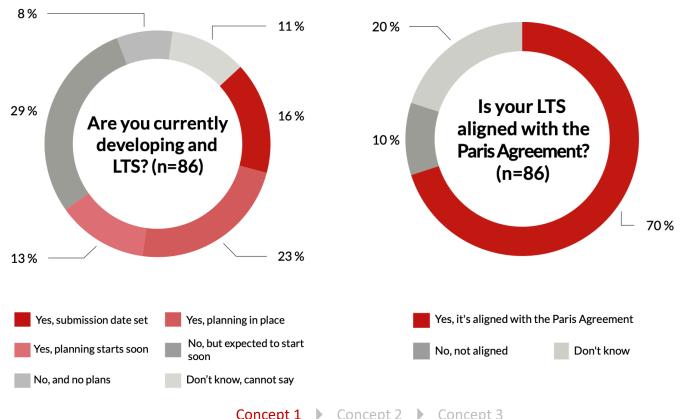
A responsibility under the Paris Agreement

- Article §4 of the Paris Agreement calls on Parties "to formulate and communicate long-term low greenhouse gas emission development strategies" (LTSs), mindful of the temperature goals, and submit these to the UNFCCC.
- The Paris Agreement's articles and the Katowice Rulebook provide only vague guidelines on LTS development, and no guidelines regarding the role of LTSs and responsibilities for updates in the future.



The status quo of LTS development

Out of 86 respondents for governments worldwide in November 2019, the latest available survey in the NDC Update Report found that 52% of respondents' countries are in the process of developing an LTS or starting soon.



Source: NDC Update Report of November 2019 on LTS development and Paris Agreement alignment (Roeser et al., 2019)



Concept 1 Concept 2 Concept 3

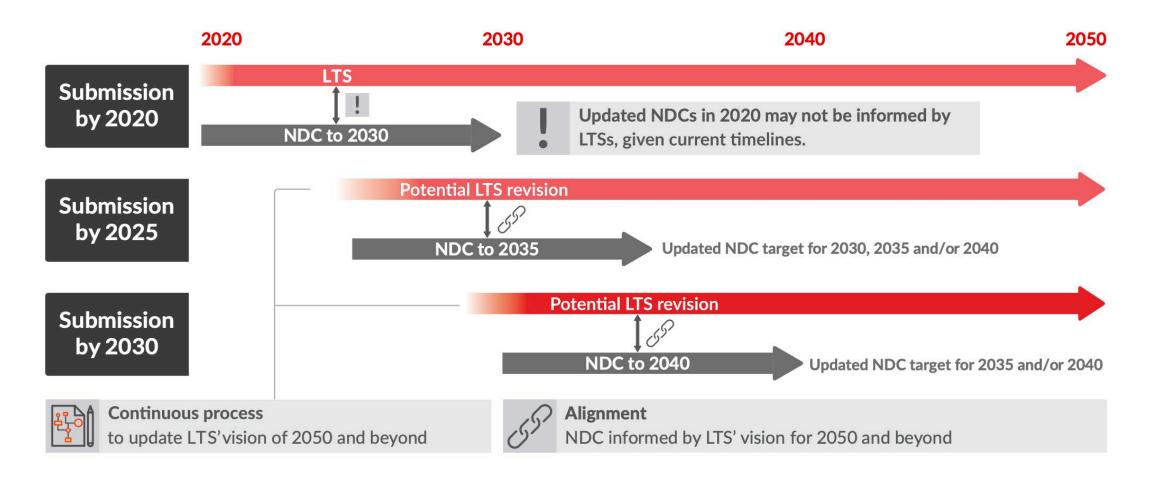
Aligning future NDCs and LTSs through iterative revision cycles

• The five-year revision cycles for Parties to submit their NDCs to the UNFCCC provide an opportunity to improve the alignment of countries' long-term visions (LTSs) with their medium-term targets (NDCs).



- Future LTS revisions allow policy makers to keep a country's long-term planning up to date informed by the latest science and developments.
- The LTS submission can be a concise, strategic document, well aligned with other processes and strategies to avoid duplication.

A proposal for harmonised revision cycles of NDCs and LTSs





Key benefits for policy makers

- 1. Increased political consensus on the long-term direction makes it easier to plan in the short and medium term.
- 2. Providing the private sector with a clear long-term signal can **improve conditions for private sector investment** in line with the Paris Agreement's temperature limit.
- 3. International climate finance **might flow more easily** to a country with a clear long-term pathway and a pipeline of projects proven to be aligned with this national strategy.
- 4. Future climate planning for NDC revisions or sectoral climate action plans become more streamlined and efficient processes if occurring as part of an iterative process alongside an LTS.



LTS development in country-specific contexts

The approach for LTS development presented in the following sections aims to inform policy makers on how to develop and revise a country's LTS in a gradual iterative process acknowledging the countries' different starting points.



A concept to enhance LTS development over time (1/2)

The concept of three levels of comprehensiveness aims to acknowledge and account for the different starting points of countries to develop their LTS in 2020.

Three levels of comprehensiveness for LTS development

Base Version

Starting point for LTS development where limited resources are available

Intermediate Version

Elaborated version of LTS with indication of existing knowledge gaps on thematic areas that require further support/ work for next review cycle

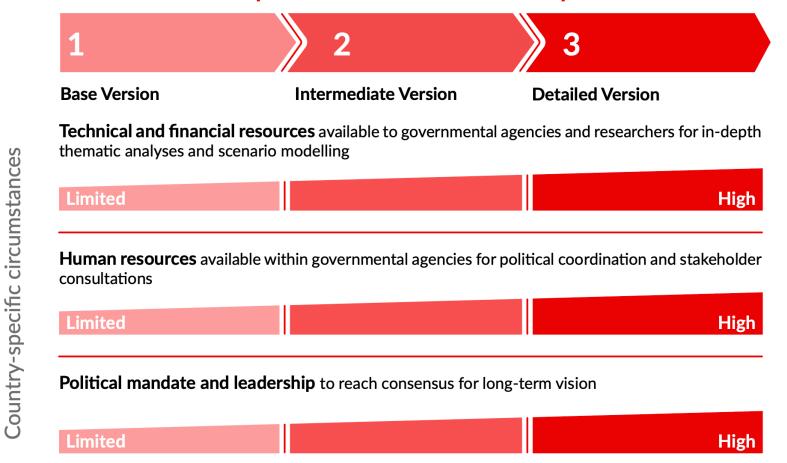
Detailed Version

Comprehensive version of LTS based on in-depth underlying analysis



A concept to enhance LTS development over time (2/2)

Three levels of comprehensiveness for LTS development



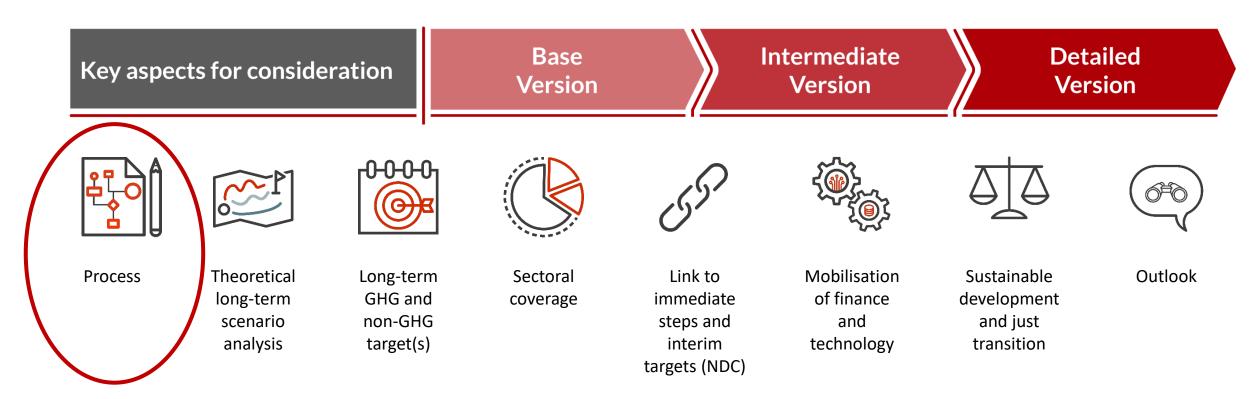


Eight key LTS aspects for consideration

A differentiated approach on how policy makers can consider key aspects for LTS development accounting for their country's circumstances.



The concept of three levels of comprehensiveness can guide policy makers to address each aspect considering their country's circumstances.



Process – Overview

Key aspects for consideration

Process

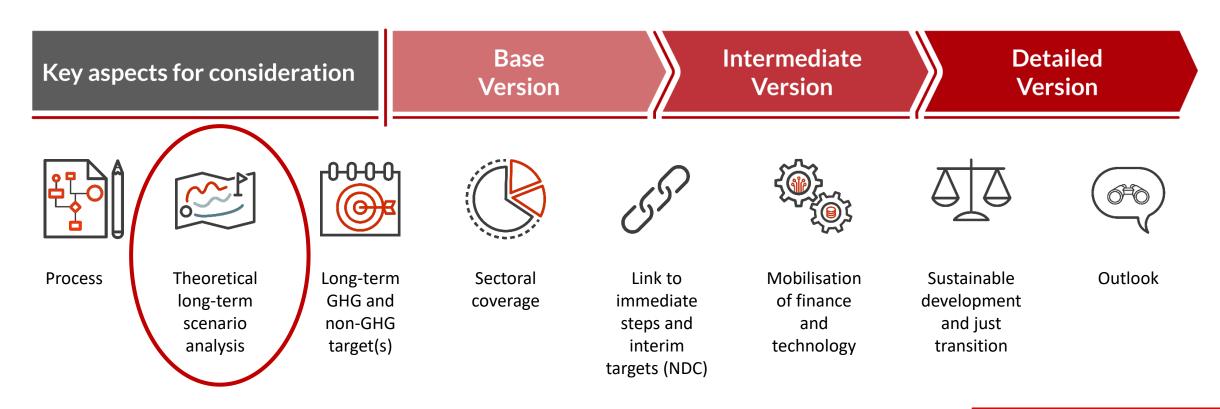
Base Version Intermediate Version

Detailed Version

For any of the LTS version types, LTS development should build on extensive coordination efforts and wider stakeholder engagement, to reach a strong consensus among stakeholders.



The concept of three levels of comprehensiveness can guide policy makers to address each aspect considering their country's circumstances.



Theoretical long-term scenario analysis – Overview

Base Intermediate **Detailed** Key aspects for consideration Version Version Version First estimates of Country-specific Theoretical long-term Acknowledgement Paris Agreement Paris Agreement of scientific findings scenario analysis aligned scenarios aligned scenarios



Theoretical long-term scenario analysis – Detailed overview



Theoretical long-term scenario analysis

Base Version

Acknowledgement of scientific findings

- ✓ **Review** of available (country-specific) literature and findings by the IPCC as starting point
- ✓ **Acknowledgment of scientific findings** (e.g. need of net-zero CO2 emissions by 2050) for country's long-term modelling with identification of currently existing knowledge gaps
- ✓ Consultative process by researchers and policy makers to determine next steps and support needs



Theoretical long-term scenario analysis – Detailed overview



Theoretical long-term scenario analysis

Intermediate Version

First estimate of Paris Agreement aligned scenarios

- ✓ Initial (country-specific) economy-wide aligned scenarios developed with some focus sectors covered in more detail
- ✓ Remaining uncertainty of obtained results due to the need for modelling improvements (e.g. missing data inputs, limited peer-review, etc.) might make results highly indicative
- ✓ Consultative process by researchers and policy makers to develop scenarios



Theoretical long-term scenario analysis – Detailed overview



Theoretical long-term scenario analysis

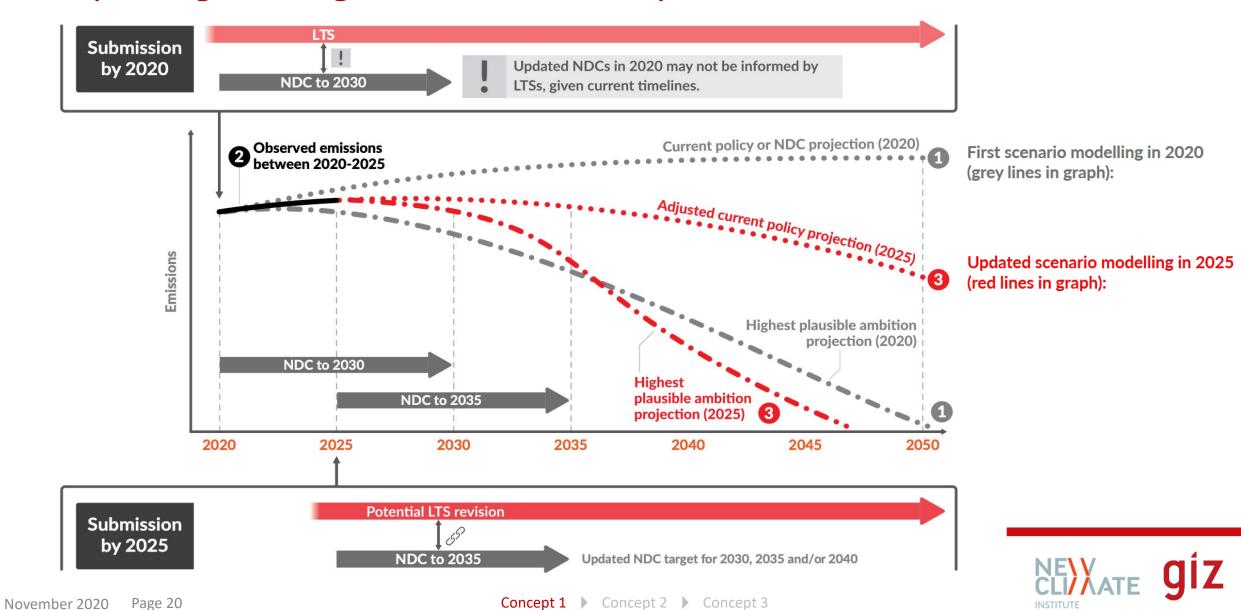
Detailed Version

Country-specific Paris Agreement aligned scenarios

- ✓ Country-specific aligned scenarios developed for all sectors and economy-wide scenarios
- ✓ Robust methodologies and models applied and in-depth (peer) review
- ✓ **Cooperative process** by researchers and policy makers to co-develop scenarios and to validate key inputs, assumptions and results



Updating the long-term scenario analysis over time



Theoretical long-term scenario analysis – Country example



Real-world

Example

Theoretical long-term scenario analysis

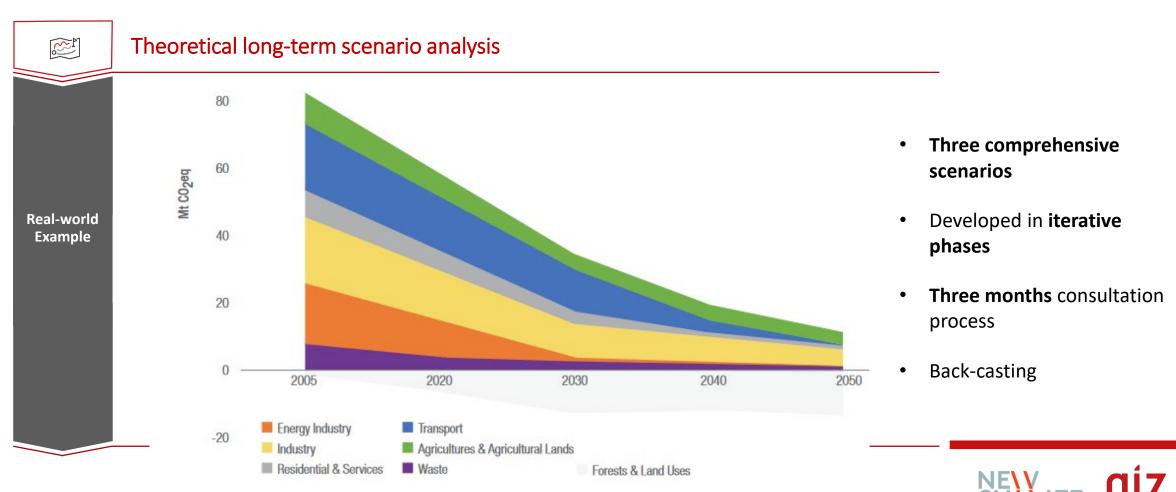
Example for 'detailed version' - Portugal's LTS (RNC2050)

- Roadmap for carbon neutrality 2050 (RNC2050)
 - Long-term strategy for carbon neutrality of the Portuguese economy by 2050
- Acknowledges the latest science
- Refers to the Paris Agreement temperature limit and the IPCC Special Report on 1.5°C, which both frame the need for full decarbonisation by 2050.





Theoretical long-term scenario analysis – Country example





Concept 1 Concept 2 Concept 3

Supporting the development of future LTS revisions

- The international community could set clearer guidance on the revision cycles for LTS, beyond a first submission in 2020.
- An online platform could track and share experiences on the approaches that countries use to address the various components of their LTSs.
- Further research and dialogues among policy makers should collect experiences and lessons learnt from this first round of LTS development.



Find out more about the guidance



Read the **guidance** at newclimate.org/publications/

Further information in **NewClimate LTS Hub** newclimate.org/lts-hub/

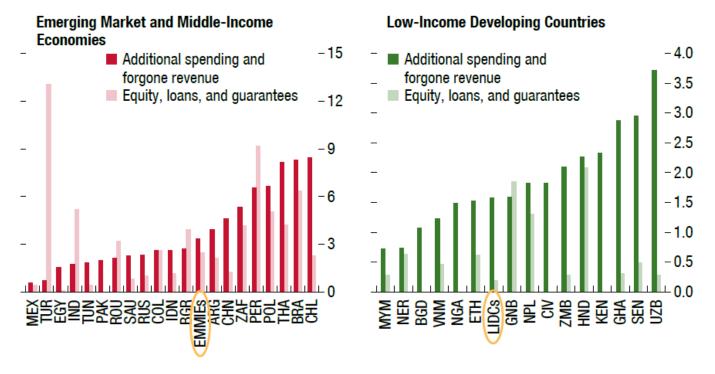


Overview of COVID-19 recovery packages and opportunities for a low-carbon transition



Fiscal action in 2020 at unprecedented scale

Fiscal response to the COVID-19 pandemic in selected economies as of 11 September 2020

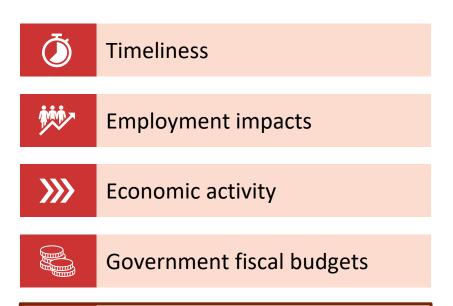


Sources: IMF (October 2020) Fiscal Monitor. Available at: https://www.imf.org/en/Publications/FM/Issues/2020/09/30/october-2020-fiscal-monitor

- Around USD 12 trillion, or ~12% of global GDP, had been spent globally as of September 2020
- Large discrepancy between G20 countries (~15% of GDP on average) and middle- and low-income countries (<6% of GDP on average)
- Initial rescue-type spending to weather severe effects of health and socioeconomic crisis in all countries
- Level of recovery-type spending differs between countries to date



Multiple dimensions guiding fiscal (recovery) spending









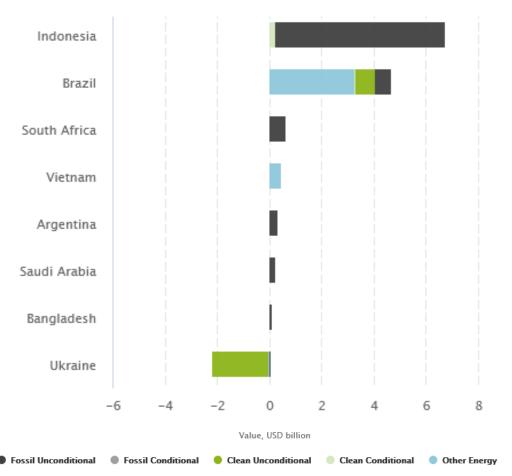
GHG emissions dimension under assessment in several recently launched trackers differentiating by:

- Low-carbon impact ("green"): Measures triggering investments in low-carbon technologies or supporting further development of such technologies through R&D or regulatory changes
- High-carbon impact ("red"): Measures reinforcing an unsustainable business-as-usual or new carbon-intensive investments
- **Neutral/unclear impact**: Measures that do not have a direct impact on emission, i.e. do not clearly fall into the *low-carbon* and *high-carbon* categories summarised above



Measures mainly support a (high-carbon) status quo, but jury still out

Public money commitments on <u>energy-related</u> investments in selected non-OECD countries as of 18 November 2020



- Assessments of the impact of rescue and recovery packages on GHG emissions remain preliminary
- Most countries bring forward measures and packages supporting a high-carbon status quo of their economies or even fostering new high-carbon investments
- Only some countries dedicate larger shares of their packages explicitly to low-carbon measures
- High-carbon infrastructure investments and a respective emissions lock-in may impact the feasibility of NDC targets and long-term targets by 2050

Sources: Energy Policy Tracker (11/2020) Available at: https://www.energypolicytracker.org/region/select-non-oecd-countries



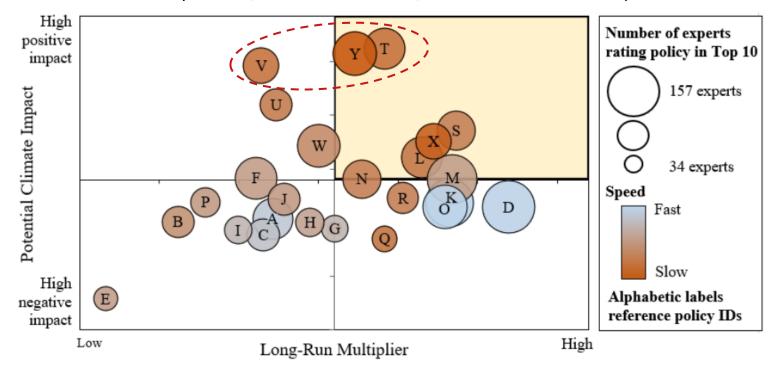
Unfolding an effective and sustainable economic recovery

- COVID-19 pandemic reemphasizes necessity of NDCs and LTSs to guide scarce fiscal spending and regulatory changes in context of severe socio-economic crisis
- International donor community have an important role to support developing countries
- Application of multi-dimensional approach and 'do no harm' principle in country specific contexts to steer economic stimulus package that support nature and the climate, for example:
 - Corporate liquidity support with conditions for low-carbon transition attached
 - Investment in nature-based solutions
 - Loans and grants for low-carbon investments in transport, buildings, industry, and energy
 - Subsidies or tax reductions for low-carbon products
 - Green R&D subsidies



Fiscal measures with potential on economic multiplier and climate impact

Target group mean survey on COVID-19 fiscal recovery measure archetypes among finance ministry officials, central bank officials, and other economists in April 2020



- Economic recovery measures available to policymakers that have long-run multiplier **and** positive impact on climate
- In-depth assessment of measures in country-specific context required

Full list of all policy archetypes on Page 10 of publication

- T Clean energy investments
- **V** Green spaces and natural infrastructure investments
- Y Clean R&D spending

Source: Hepburn et al. (2020) Will COVID-19 fiscal recovery packages accelerate or retard progress on climate change?. Available at: https://www.smithschool.ox.ac.uk/publications/wpapers/workingpaper20-02.pdf



Emerging examples in the pursuit of low-carbon economic recovery

T – Clean energy infrastructure investments

- **Chile**: Green Credit programme to make renewable energy investments of up to USD 39 million in 2020 by refinancing long-term credits granted by financial intermediaries
- Nigeria: Installation of Solar Home Systems (SHS) in 5 million households currently not connected to the national grid, including a local content production requirement triggering domestic employment opportunities

V – Green spaces and natural infrastructure investments

- **Ethiopia:** Ethiopia and the United Nations Economic Commission for Africa signed a Memorandum of Understanding on a four-year USD 3.6 million project on nature-based solutions for water resources infrastructure and community resilience to support Ethiopia's green recovery
- Pakistan: Three-phased approach to natural ecosystems restoration focusing on local employment creation, for example aiming to provide around 65,000 employment opportunities as part of the first stage of the 10 Billion Trees Tsunami project



Expectations generally rather positive, despite high uncertainties

Multiple upcoming analyses surveying expectations among policy makers and expert

i. Majority of 98 country representatives optimistic about intensifying climate action (e.g. increases spending in future mitigation spending), but more divided on whether the COVID-19 crises accelerates or slows down their countries' climate policy and ambitions (NDC Update Report 2020, forthcoming)



- ii. Most of 55 countries report an **intention or announcement to include** *low-carbon* **measures** in their COVID-19 recovery plans, but contradicting measures remain widespread (Climate Change Performance Index 2020, *forthcoming*)
- iii. Relatively positive expectations on medium-term impacts of COVID-19 crisis on climate policies by policy makers of >50 countries, especially in OECD and Asian countries (Euro-Mediterranean Center on Climate Change 2020, forthcoming)



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