### Summary

# Making Long-Term Low GHG Emissions Development Strategies a Reality

A guidance to policy makers on how to develop an LTS for submission in 2020 and future revision cycles

#### May 2020

This project is part of the International Climate Initiative (IKI). The German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) supports this initiative on the basis of a decision adopted by the German Bundestag.

On behalf of:

Federal Ministry for the Environment, Nature Conservation and Nuclear Safety



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# **Structure**

### The guidance introduces three key concepts for consideration

- 1. The case for ongoing revisions of LTSs beyond 2020
- 2. Factoring in country specific circumstances and starting points
- 3. Eight key aspects of LTSs for consideration





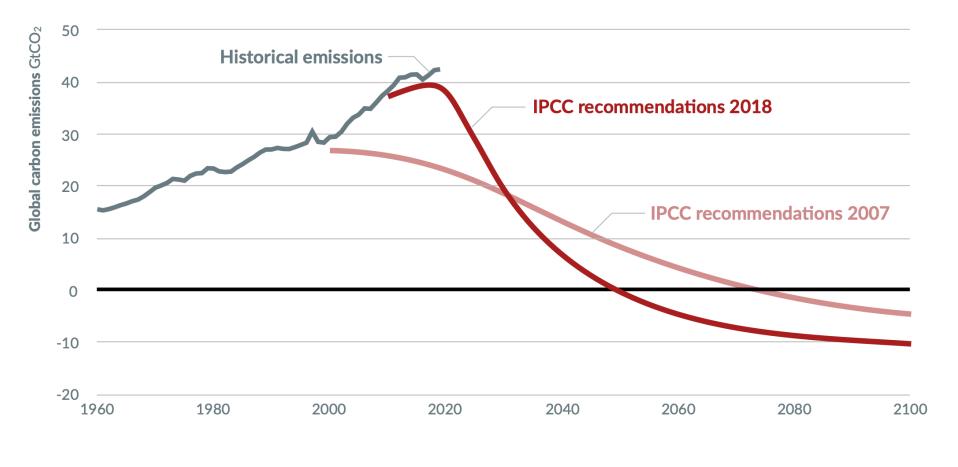
# The case for ongoing revisions of LTSs beyond 2020

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  $CO_2$  emissions recommended by the IPCC in the Fourth Assessment Report of 2007 (445 to 490 ppmCO\_2eq 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).



Concept 1 Concept 2 Concept 3

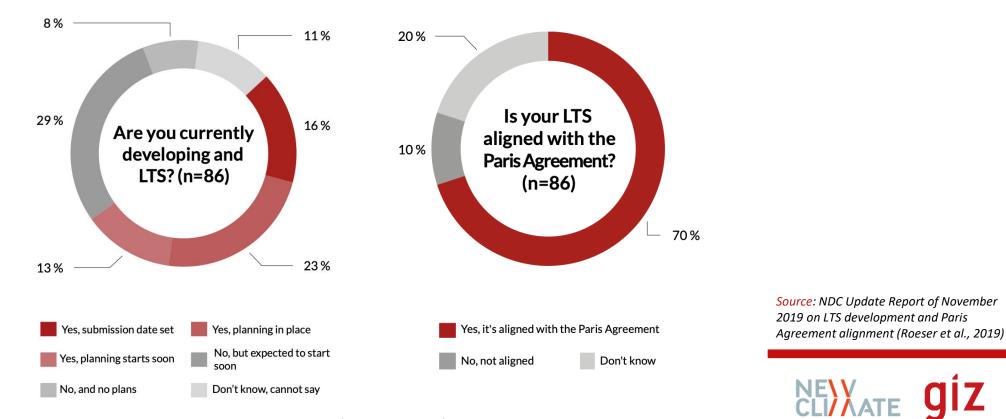
### A responsibility under the Paris Agreement

- 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.



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Concept 1 Concept 2 Concept 3

## Aligning future NDCs and LTSs through iterative revision cycles

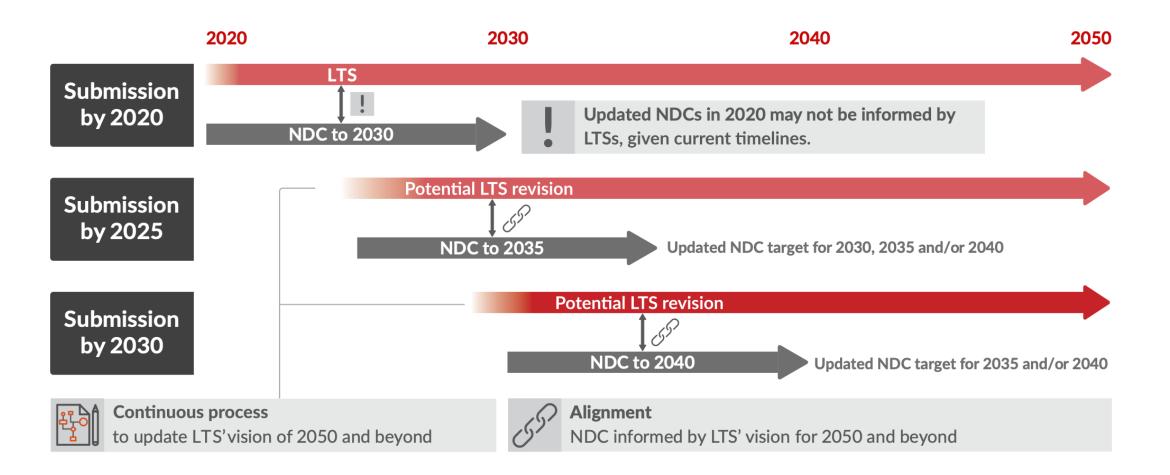
 The five-year revision cycles for Parties to submit their NDCs to the UNFCCC provide an opportunity to improve the alignment of countries' long-term visions (LTSs) with their medium-term targets (NDCs).



- 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**.
- 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.



#### Concept 2

# LTS development in country-specific contexts

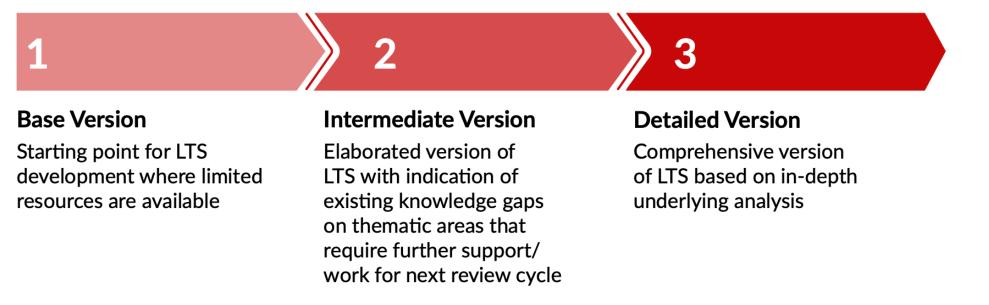
The approach for LTS development presented in the following sections aims to inform policy makers on how to develop and revise a country's LTS in a gradual iterative process acknowledging the countries' different starting points.



## 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.

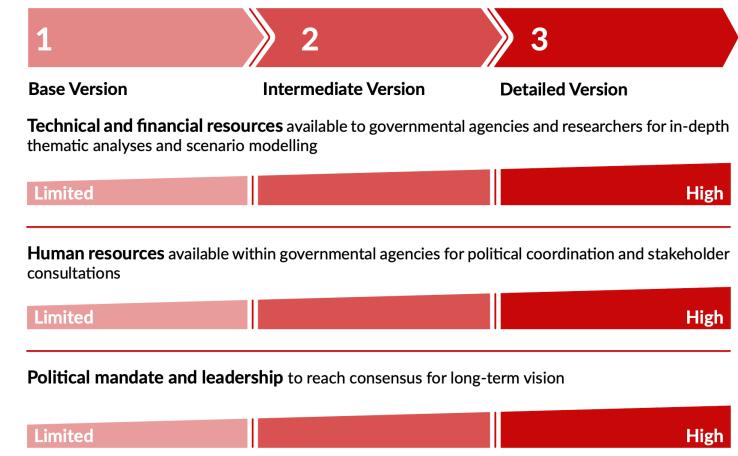
### Three levels of comprehensiveness for LTS development





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

#### Three levels of comprehensiveness for LTS development





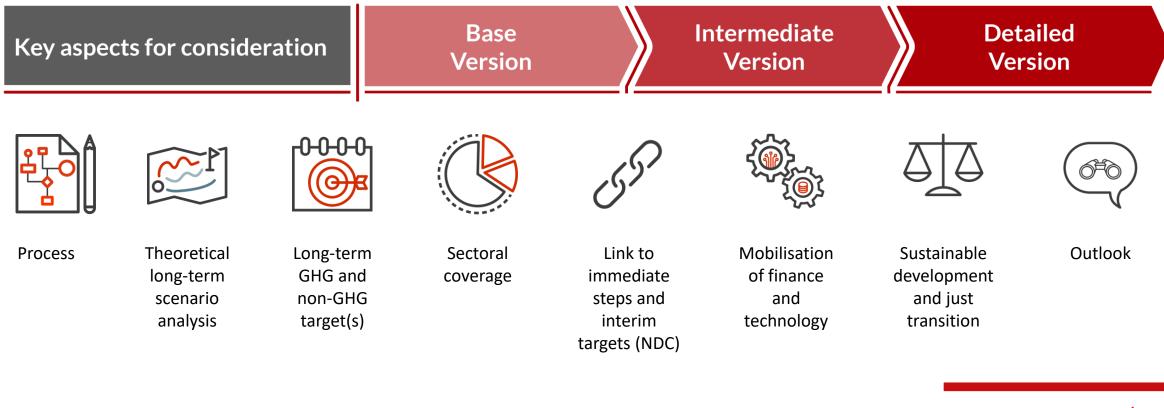


# **Eight key LTS aspects for consideration**

### 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.





### Key aspects for consideration in an ongoing LTS development process

Key asp	ects for consideration	Base Version	Intermediate Version	Detailed Version
	Process	For any of the LTS version types, LTS development should build on exten- sive coordination efforts and wider stakeholder engagement, to reach a strong consensus among stakeholders.		
	Theoretical long-term scenario analysis	Acknowledgement of scientific findings	First estimates of Paris Agreement aligned scenarios	Country-specific Paris Agreement aligned scenarios
	Long-term GHG and non-GHG target(s)	Statement of in- tention to fully decarbonise	Indicative targets, but not enshrined in national policy	Targets enshrined in national policy
B	Sectoral coverage	Focus sectors	Focus sectors with other sectors in lesser detail	All sectors in detail
652	Link to immediate steps and interim targets (NDC)	Reflection on enhanced alignment of medium-term targets (NDCs) and short-term actions with the country's long-term vision		
	Mobilisation of finance and technology	Reflection of improved understanding on mobilisation of domestic and international finance and technology resources over time		
	Sustainable development and just transition	Reflection on improved mainstreaming of sustainable development and just transition considerations		
6%	Outlook	Transparent communication of intention to further develop LTS over time and additional international support needs required		

### Summary overview

of all key aspects for consideration per levels of comprehensiveness

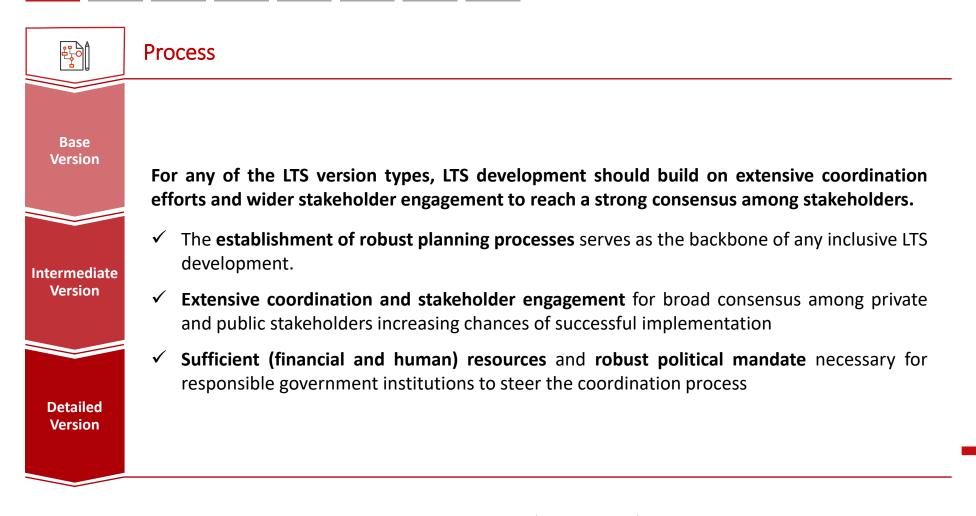


# Introducing eight key LTS aspects for consideration Process – Overview

Key aspects for consideration	Base	Intermediate	Detailed
	Version	Version	Version
Process	For any of the LTS version types, LTS development should build on exten- sive coordination efforts and wider stakeholder engagement, to reach a strong consensus among stakeholders.		



### Process – Detailed overview



### Process – Country example



**Real-world** 

Example

#### Process

#### Example for 'intermediate version' - Germany's LTS

- Climate Action Alliance informs Germany's LTS development process, triggering the participation of and dialogue between federal states (*Länder*), local authorities, associations and members of the public to agree on 100 measures to inform the German LTS.
- Climate Action Alliance will also be involved in the implementation and revision of the programmes identified in the LTS.
- In a detailed LTS version, this process could be coupled with a governance framework for inter-ministry coordination, for example to strengthen sector-coupling and facilitate dialogue and interactions between German ministries.

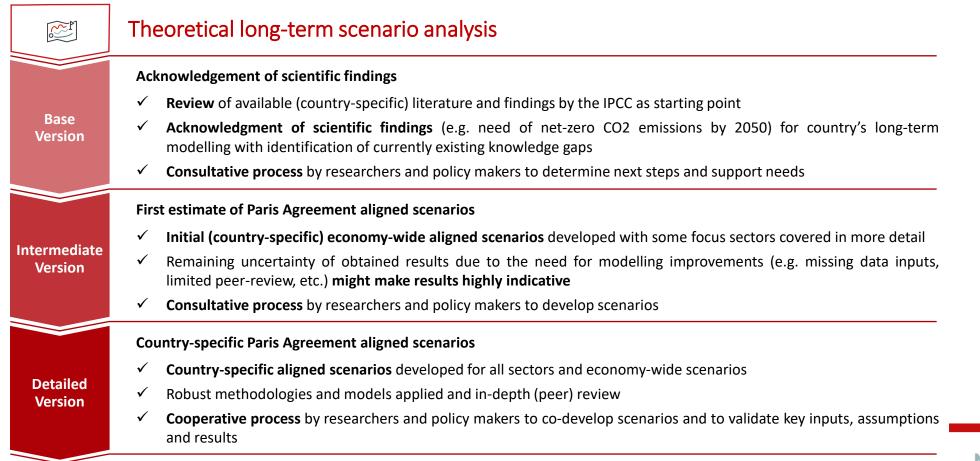


# Introducing eight key LTS aspects for consideration Theoretical long-term scenario analysis – Overview

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



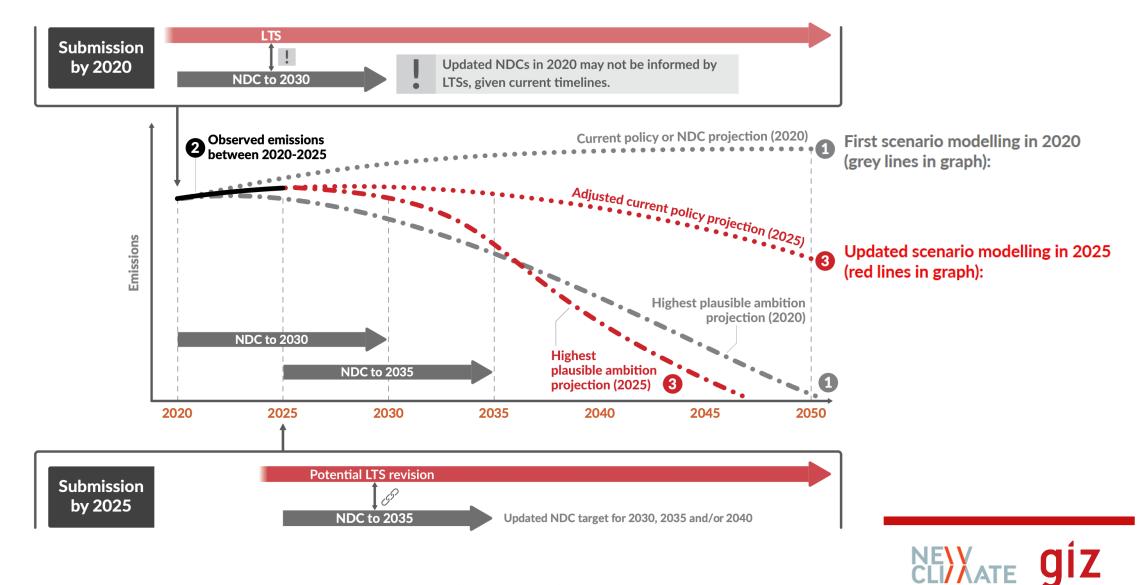
### Theoretical long-term scenario analysis – Detailed overview





## Updating the long-term scenario analyses over time

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# Introducing eight key LTS aspects for consideration Theoretical long-term scenario analysis – Country example



#### Theoretical long-term scenario analysis

#### **Example for 'detailed version' - Portugal's LTS**

• Portugal's LTS **acknowledges the latest science** and references the Paris Agreement temperature limit and the IPCC Special Report on 1.5°C, which both frame the need for full decarbonisation by 2050.

Real-world Example

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- The economy-wide scenarios behind the LTS were **developed in iterative phases**, gathering contributions from and peer-reviewing of various national institutions and experts, for instance through technical workshops on assumptions and trends.
- The process resulted in **three comprehensive scenarios encompassing all sectors**, tailored to country-specific circumstances and based on robust methodologies and models.
- A draft of the LTS underwent a **three months consultation process** to engage stakeholders in a series of events and gather feedback.

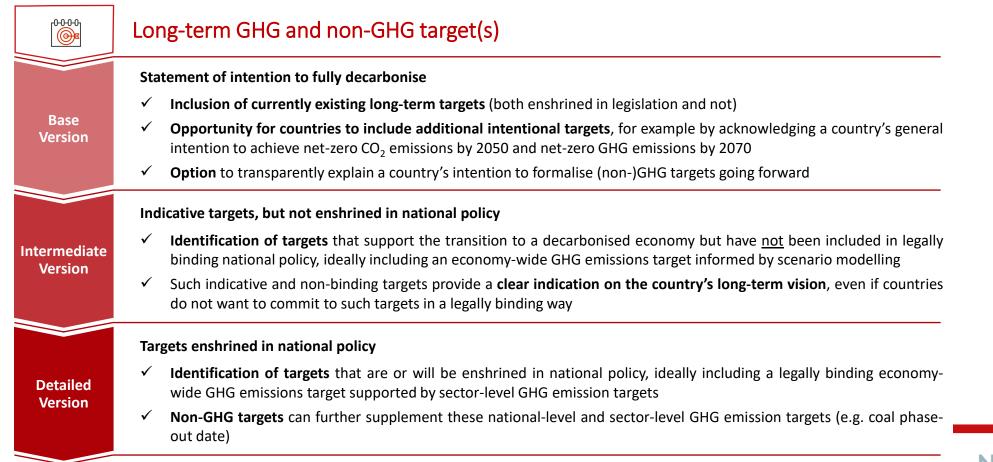


# Introducing eight key LTS aspects for consideration Long-term GHG and non-GHG target(s) – Overview

Key aspects for consideration	Base	Intermediate	Detailed
	Version	Version	Version
Long-term GHG and non-GHG target(s)	Statement of in tention to fully decarbonise	Indicative targets, but not enshrined in national policy	Targets enshrined in national policy



# Introducing eight key LTS aspects for consideration Long-term GHG and non-GHG target(s) – Detailed overview



# Introducing eight key LTS aspects for consideration Long-term GHG and non-GHG target(s) – Country example



#### Long-term GHG and non-GHG target(s)

#### Example for 'detailed version' - UK's LTS

• The UK's LTS is **based on existing legislation** such as the Climate Change Act (2008), which commits the UK government by law to reduce greenhouse gas emissions.

Real-world Example

- In parallel to the LTS, the 80% reduction target by 2050 was amended in June 2019 to "at least 100% of 1990 levels (net zero) by 2050".
- The Act includes the **setting of sectoral carbon budgets** to be revised by the Secretary of State every four years. It is noteworthy to mention that while the long-term mitigation target was amended, the carbon budgets are still based on the previous target of an 80% reduction.
- The Act led to non-GHG targets, most notably UK's **coal phase-out** by October 2024.

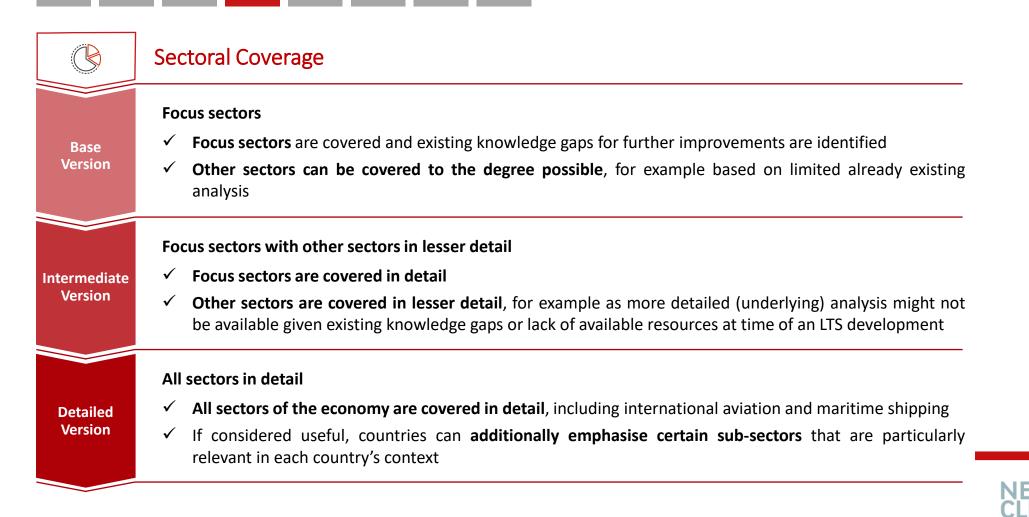


### Sectoral Coverage – Overview

Key aspects for consideration	Base	Intermediate	Detailed
	Version	Version	Version
Sectoral coverage	Focus sectors	Focus sectors with other sectors in lesser detail	All sectors in detail



# Introducing eight key LTS aspects for consideration Sectoral Coverage – Detailed overview



# Introducing eight key LTS aspects for consideration Sectoral Coverage – Country example



#### **Example for 'base version' - Marshall Islands' LTS**

- Marshall Islands' LTS breaks national emissions **down to four focus sectors**: electricity; transportation (land and sea); waste; and cooking & lighting.
- The LTS emphasises the **need for further assessment**, e.g. through surveys, to better understand emissions sources.
  - The LTS leaves out international transportation and explicitly aims to better understand the housing sector, beyond emissions from cooking and lighting.
  - Most of the LTSs submitted to the UNFCCC by May 2020 include all sectors (generally split as the energy supply sector, transport, buildings, agriculture, land use and forestry, industry and waste sectors)



Real-world

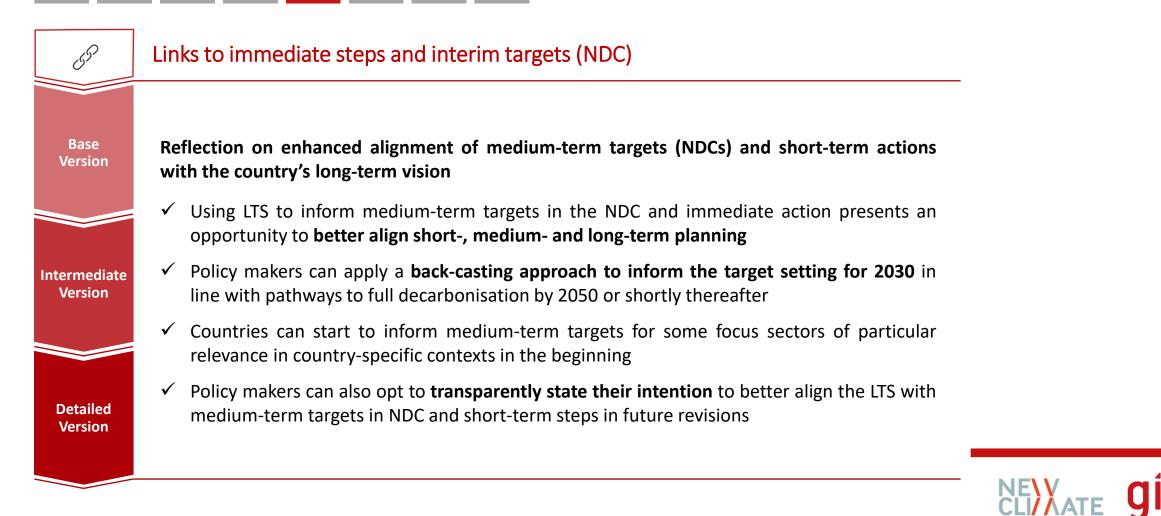
Example

# Introducing eight key LTS aspects for consideration Links to immediate steps and interim targets (NDC) – Overview

Key asp	pects for consideration	Base Version	Intermediate Version	Detailed Version
652	Link to immediate steps and interim targets (NDC)	Reflection on enhanced a short-term actions with the	•	



### Links to immediate steps and interim targets (NDC) – Detailed overview



### Links to immediate steps and interim targets (NDC) – Country example



#### Links to immediate steps and interim targets (NDC)

#### Example for ' detailed version' - Fiji's LTS

• Fiji's LTS is seen as a "a key tool, a guiding light, and a fundamental pillar" to inform, enhance and raise ambition of future NDCs.

## • The LTS provides emission targets in five-year intervals between 2020 and 2050 in all scenarios developed in the LTS process.

- A key pillar of Fiji's LTS is to reflect on immediate, short-, medium- and long-term priority actions informed by long-term pathway scenarios.
- The LTS sets "**both economy-wide and sector-specific development target**s" linked to Fiji's NDC, which spans from 2017 to 2036 (see Table 2 of the LTS).



# Introducing eight key LTS aspects for consideration Mobilisation of finance and technology - Overview

Key aspects for consideration	Base	Intermediate	Detailed
	Version	Version	Version
Mobilisation of finance and technology	Reflection of improved understanding on mobilisation of dome ternational finance and technology resources over time		



# Introducing eight key LTS aspects for consideration Mobilisation of finance and technology – Detailed overview



#### Mobilisation of finance and technology

Reflection of improved understanding on mobilisation of domestic and international finance and technology resources over time

- ✓ Opportunity to transparently communicate how much international financing and other (technological) support a country requires in addition to the contribution of domestic resources
- Aspects related to finance and technology covered in an LTS can reflect the current state of knowledge on key fields of actions to address barriers to accelerated sector transitions in a country-specific context
  - Regularly updated analyses might enable policy makers to better communicate a support needs beyond domestic capabilities to the international community
  - Policy makers can opt to closely interlink the theoretical long-term scenario analysis with assessments on finance and technology required for pathways of accelerate mitigation ambition



# Introducing eight key LTS aspects for consideration Mobilisation of finance and technology – Country example



Real-world

Example

#### Mobilisation of finance and technology

#### Example for ' detailed version' - Costa Rica' LTS

- Costa Rica' LTS includes seven cross-sector strategies, of which two strategies aim to mobilise and allocate funds in support of the country's decarbonisation pathway.
- Strategy B aims to elaborate and implement a domestic "Green Tax Reform" to be led by the Ministry of Finance to mobilise new revenue sources for the transport sector transition (including elimination of fossil fuel subsidies).
- Strategy C, to be led by several Ministries such as the Ministry of Foreign Affairs and the Ministry of Foreign Trade of Costa Rica, will focus on **mobilising national and international funds** from both public and private sources.
- In a first step, Costa Rica agreed on a USD 230 million loan with the Inter-American Development Bank to implement NDC and LTS policies that support the country's sustainable development strategy (IDB, 2020).

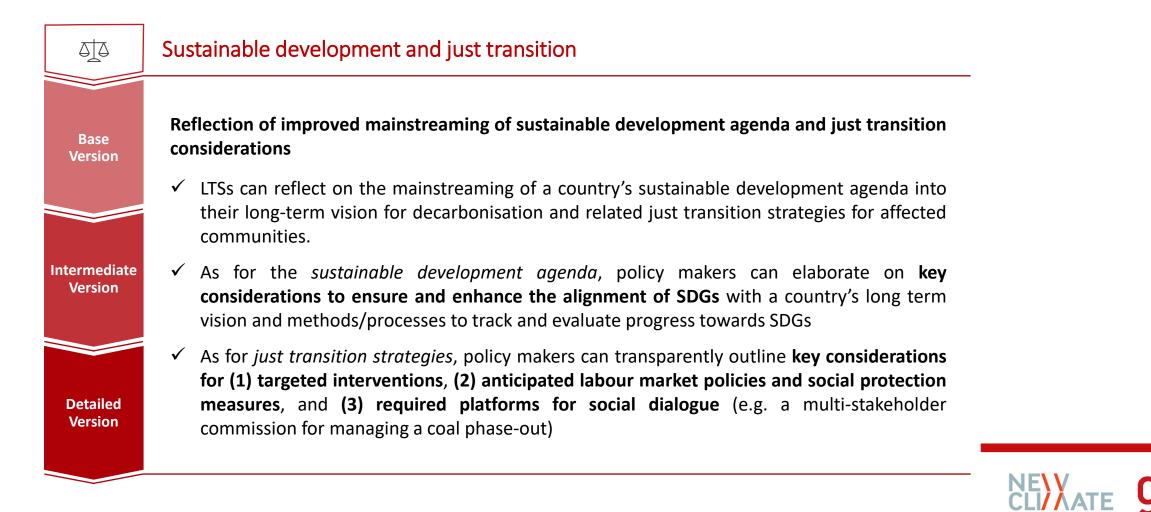


# Introducing eight key LTS aspects for consideration Sustainable development and just transition – Overview

Key aspects for consideration		Detailed Version	
Sustainable development and just transition	Reflection on improved m just transition consideration	•	ainable development and



### Sustainable development and just transition – Detailed overview



### Sustainable development and just transition – Country example



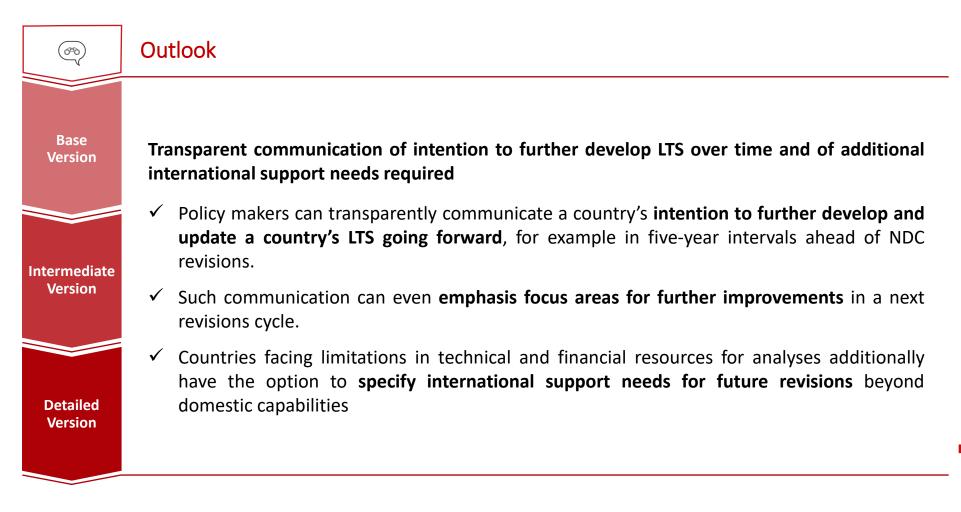


# Introducing eight key LTS aspects for consideration Outlook – Overview

Key aspects for consideration	Base	Intermediate	Detailed
	Version	Version	Version
Otook Outlook	Transparent communication of intention to further develop LTS over and additional international support needs required		-



# Introducing eight key LTS aspects for consideration Outlook – Detailed overview



### Outlook – Country example





# **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 <u>newclimate.org/publications/</u>

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



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