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**Contents**

<i>No.</i>		<i>Gazette No.</i>	<i>Page No.</i>
<b>GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS</b>			
<b>Forestry, Fisheries and the Environment, Department of / Bosbou, Visserye en die Omgewingsake, Departement van</b>			
6460	Climate Change Act (22/2024): Publication of the Draft Second Nationally Determined Contribution for the Republic of South Africa .....	53092	3

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**GOVERNMENT NOTICES • GOEWERMENTSKENNISGEWINGS**

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**DEPARTMENT OF FORESTRY, FISHERIES AND THE ENVIRONMENT****NO. 6460****30 July 2025****CLIMATE CHANGE ACT, 2024 (ACT NO. 22 of 2024)****PUBLICATION OF THE DRAFT SECOND NATIONALLY DETERMINED CONTRIBUTION FOR THE REPUBLIC OF SOUTH AFRICA**

I, Dion Travers George, Minister of Forestry, Fisheries and the Environment hereby in terms of Article 4(2) of the Paris Agreement and sections 31, and 32 of the Climate Change Act, 2024 (Act No. 22 of 2024) (the Act), publish the Draft Second Nationally Determined Contribution (Draft Second NDC) for the Republic of South Africa for public comment, as set out in the Schedule hereto.

South Africa, as a Party to the United Nations Framework Convention on Climate Change (UNFCCC) and the Paris Agreement, is required to submit successive NDC's that represent a progression beyond the previous NDC and reflect the highest possible ambition. The Draft Second NDC sets out South Africa's updated climate change mitigation targets and adaptation goals for the 2026-2030 and 2031–2035 period, in line with national development priorities and international obligations.

The Draft Second NDC reflects South Africa's commitment to contribute fairly to the global efforts to limit temperature increase to well below 2°C, pursuing efforts to limit it to 1.5°C above pre-industrial levels. It outlines the country's greenhouse gas emissions targets, adaptation priorities, implementation needs, and support requirements.

Members of the public are invited to submit within 30 days from the date of publication of this Notice in the *Government Gazette*, or the newspaper, whichever date occurs last, written comments to any of the following addresses:

By post to:       The Director-General: Department of Forestry, Fisheries and the Environment  
                      Attention: Mr. Mkhuthazi Steleki  
                      Department of Forestry, Fisheries and the Environment  
                      Private Bag x447  
                      Pretoria  
                      0001

By email to: [MSteleki@dfre.gov.za](mailto:MSteleki@dfre.gov.za) or [Mndiitwani@dfre.gov.za](mailto:Mndiitwani@dfre.gov.za)

By hand to: The Department of Forestry, Fisheries and the Environment, Ground Floor (Reception), Environment House, 473 Steve Biko Road, Arcadia, Pretoria.

Members of the public can access the Draft Second NDC from the Department website at [https://www.dffe.gov.za/sites/default/files/docs/annexureb\\_ndcfinalcabinetversion\\_18july2025.pdf](https://www.dffe.gov.za/sites/default/files/docs/annexureb_ndcfinalcabinetversion_18july2025.pdf) for comment.

Any inquiries in connection with this notice can be directed to Mr. Mkhuthazi Steleki at Tel: (012) 399 9186 or through email: [MSteleki@dffe.gov.za](mailto:MSteleki@dffe.gov.za) or Ms. Mutshidzi Ndiitwani at Tel: (012) 399 8597

**Comments received after the closing date may not be considered.**

The Department of Forestry, Fisheries and the Environment complies with the Protection of Personal Information Act, 2013 (Act No. 4 of 2013). Comments received and responses thereto are collated into a comments and response report which will be made available to the public as part of the consultation process. If a commenting party has any objection to his or her name, or the name of the represented company/ organisation, being made publicly available in the comments and responses report, such objection should be highlighted in bold as part of the comments submitted in response to this Government Notice.



**DR DION TRAVERS GEORGE**  
**MINISTER OF FORESTRY, FISHERIES AND THE ENVIRONMENT**

## SCHEDULE

# Draft second NDC - strictly confidential

July 2025

## Contents

<b>1. INTRODUCTION .....</b>	<b>1</b>
A. MANDATE AND SCOPE .....	1
B. TAKING INTO ACCOUNT OUTCOMES OF FIRST GLOBAL STOCKTAKE, REPORTS OF THE INTERGOVERNMENTAL PANEL ON CLIMATE CHANGE AND SUSTAINABLE DEVELOPMENT GOALS.....	1
C. PROGRESSION AND HIGHEST POSSIBLE AMBITION, IN THE LIGHT OF EQUITY AND NATIONAL CIRCUMSTANCES.....	2
<b>2. CONTEXT: NATIONAL PRIORITIES AND CIRCUMSTANCES .....</b>	<b>2</b>
A. APPROACH.....	3
B. UPDATES ON NATIONAL PRIORITIES AND PROGRESS MADE SINCE 2021 UPDATE OF FIRST NDC .....	3
C. CLIMATE IMPACTS EXPERIENCED IN SOUTH AFRICA.....	4
<b>3. ADAPTATION .....</b>	<b>5</b>
A. ADAPTATION COMMUNICATION, NATIONAL ADAPTATION STRATEGY AND PLAN .....	5
B. CLIMATE HAZARDS, RISKS AND VULNERABILITY .....	5
C. ADAPTATION GOALS, INTERVENTIONS AND PROGRESSION.....	6
D. INSTITUTIONAL ARRANGEMENTS.....	11
E. SPECIFYING ADAPTATION NEEDS.....	12
<b>4. LOSS AND DAMAGE .....</b>	<b>12</b>
A. LIMITS TO ADAPTATION.....	12
B. LOSS AND DAMAGE IN SA DUE TO CLIMATE IMPACTS .....	12
C. INSTITUTIONAL ARRANGEMENTS.....	13
D. NEEDS ARISING IN ADDRESSING L&D .....	13
E. FUNDING OF L&D .....	13
<b>5. MITIGATION.....</b>	<b>13</b>
A. APPROACH TO SETTING MITIGATION TARGETS AND CONTRIBUTION TO GLOBAL LONG-TERM GOAL ON MITIGATION .....	13
B. METHODOLOGICAL CONSISTENCY IN SETTING AND ACCOUNTING FOR MITIGATION TARGETS .....	13
C. MITIGATION TARGETS FOR 2026-2030 AND 2031-2035 .....	14
D. JUST TRANSITION TO NET ZERO CARBON EMISSIONS BY 2050 .....	16
<b>6. SUPPORT AND MEANS OF IMPLEMENTATION AS PROVIDED FOR IN ARTICLES 9, 10 AND 11 OF THE PARIS AGREEMENT .....</b>	<b>17</b>
<b>7. EQUITY AND SCIENCE.....</b>	<b>18</b>

<b>8. INFORMATION TO FACILITATE CLARITY, TRANSPARENCY AND UNDERSTANDING OF MITIGATION, AND WAYS TO TRACK PROGRESS OF ADAPTATION AND SUPPORT .....</b>	<b>20</b>
A. INFORMATION TO FACILITATE CLARITY, TRANSPARENCY AND UNDERSTANDING .....	20
B. WAYS TO TRACK PROGRESS OF ADAPTATION AND REPORTING ON L&D .....	34
C. INFORMATION TO FACILITATE TRACKING OF SUPPORT RECEIVED.....	34
<b>9. UNCERTAINTIES.....</b>	<b>35</b>

## Tables

Table 1: National adaptation goals, interventions, ways of tracking and finance needs in South Africa's Adaptation Communication in its second NDC .....	7
Table 2: South Africa's mitigation targets in its second NDC .....	14
Table 3: Information to facilitate clarity, transparency and understanding of South Africa's second NDC.....	20

# 1. Introduction

## a. Mandate and scope

South Africa has prepared and hereby communicates our second nationally determined contribution (NDC) under the Paris Agreement, fulfilling our obligation under Article 4.9 to communicate NDCs every five years. As a responsible global citizen, and reaffirming our commitment to the multi-lateral rules-based regime under the UNFCCC and its Paris Agreement, we communicate this second NDC as our fair and ambitious contribution to collective action in the fight against climate change. This second NDC is critical to shifting our development path to a low emissions, climate resilient and socially just society.

South Africa submitted an intended nationally determined contribution (INDC) (RSA, 2015) on 25 September 2015 prior to COP 21, which became our first NDC (RSA, 2016) on 1 November 2016, following our ratification of the Paris Agreement. South Africa updated and enhanced our first NDC (RSA, 2021), which was communicated on 27 September 2021. The delay was due to the COVID-19 pandemic, and we indicated at the time that our second NDC would be submitted in 2025. The present document is our second NDC. We are thus clearly and consistently maintaining successive NDCs, as required under Article 4.2 of the Paris Agreement.

## b. Taking into account outcomes of first global stocktake, reports of the Intergovernmental Panel on Climate Change and sustainable development goals

In preparing this second NDC, we took into account the outcomes of the first global stocktake (GST1), as required by decision 4/CMA.1.

The GST assesses collective progress in achieving the purpose of the Paris Agreement and its long-term goals: on global temperature (in Article 2.1a of the Paris Agreement), mitigation (Article 4.1), adaptation (Article 2.1b and 7.1) and finance (Article 2.1c and 9.3). We reaffirm that successful implementation of the Paris Agreement requires implementation by the international community of measures to achieve *all* the long-term goals of the Paris Agreement. The scope of our second NDC includes mitigation, adaptation and loss and damage, and support needs. GST1 considered ambition and equity, both based on best available science, as cross-cutting elements. We consider fairness and ambition as critical, and our approach to climate change is firmly based on science.

The reports of the Intergovernmental Panel on Climate Change (IPCC) are authoritative assessments of our knowledge on climate change, and South Africa considers the IPCC reports to be of the highest importance in guiding our actions. The contributions of Working Groups I, II and III to the Sixth Assessment provide invaluable information on the physical science basis, on options for climate resilient and low emission development, highlighting the systems transformations that will be necessary for ambitious climate action, as well as potential disruption of rapid change; and assesses literature on equity in mitigation, adaptation and implementation.

In updating our first NDC, we already warmly welcomed the IPCC's special report on global warming of 1.5 °C above pre-industrial levels. The special report remains salient to the global temperature goal:

*"This Agreement, in enhancing the implementation of the Convention, including its objective, aims to strengthen the global response to the threat of climate change, in the context of sustainable development and efforts to eradicate poverty, including by: (a) Holding the increase in the global average temperature to well below 2 °C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5 °C above pre-industrial levels, recognizing that this would significantly reduce the risks and impacts of climate change" (Article 2.1a).*

Effective multilateral co-operation is a key factor in achieving the temperature goals of the Paris Agreement. The first GST underlined "the critical role of multilateralism based on United Nations values and principles, including in the context of the implementation of the Convention and the Paris Agreement, and the importance of

international cooperation for addressing global issues, including climate change, in the context of sustainable development and efforts to eradicate poverty”.

South Africa expresses our deep concern that the risk of overshooting 1.5 °C is becoming ever more likely, and we suffer losses and damages from increasing temperatures already. We stand in solidarity with all peoples, and particularly other African countries, whose capabilities to adapt will be limited. As a global community, we must redouble our effort to reduce emissions rapidly after peaking, return to global warming levels below 1.5 °C after overshooting, and we call on developed country economies to mobilise finance commensurate with 1.5 °C.

South Africa takes the view that ambition should not only apply to setting goals, but also to their implementation. The climate crisis requires urgent action - now, throughout the rest of this critical decade, to 2035, with a long-term perspective of a just transition to net zero CO<sub>2</sub> emission by 2050. We believe that just transitions, for mitigation and adaptation, are core to shifting our development pathway to increased sustainability, fostering climate resilient and low greenhouse gas emissions development, while providing a better life for all.

Our approach integrates climate and development, and our NDC relates to the sustainable development objectives enshrined in our National Development Plan (NDP). South Africa faces a triple development challenge of poverty, inequality and unemployment. The context of development is critical to implementing and achieving climate goals in South Africa and elsewhere. We remain committed to the global Sustainable Development Goals (SDGs), which were adopted in 2015, the same year as the Paris Agreement, and include urgent action to combat climate change and its impacts, to reduce poverty and inequality, and to provide access to sustainable energy for all.

### **c. Progression and highest possible ambition, in the light of equity and national circumstances**

South Africa has considered the principles and provisions of the Paris Agreement in preparing this second NDC, as with the first NDC and its update. South Africa is not listed in Annex I of the UNFCCC, is a developing country Party to the Paris Agreement, and communicates this NDC “in pursuit of the objective of the Convention, and being guided by its principles, including the principle of equity and common but differentiated responsibilities and respective capabilities, in the light of different national circumstances” (Paris Agreement, preamble).

We consider progression to be the floor of ambition. We take most seriously the obligation in Article 4.3, and this second NDCs demonstrate progression beyond the first, and reflect our highest possible ambition, reflecting its common but differentiated responsibilities and respective capabilities, in the light of our national circumstances. Our updated NDC in 2021 showed significant increase in ambition, in relation to mitigation, and also made clear that great levels of investment and international climate finance will be needed. We continue to assume “that implementation and ambition will be enabled by finance and technology and capacity building support”, as stated in the first NDC, and stipulated in the Paris Agreement. Ambition and equity apply across mitigation, adaptation and support.

The structure of the second NDC follows that of the first NDC in most respects. We include components on adaptation, mitigation and support. Loss & Damage was treated briefly in our first NDC, and with ever-increasing impact has a dedicated section in this second NDC. Also, we have applied ICTU in relation to mitigation in our first NDC and update, and believe that monitoring and evaluation of adaptation actions, and tracking climate finance, deserve more attention.

As GST 1 emphasized, equity means considering different in context, and we outline our national priorities and circumstances.

## **2. Context: national priorities and circumstances**

South Africa's second NDC reflects several trends in the country with respect to development and climate change. We have made significant progress in implementation since 2021, when we communicated our updated and enhanced NDC. Our country faces significant development challenges that need to be addressed alongside the implementation of its current NDC and communication of this second NDC.



### **a. Approach**

South Africa approaches climate changes as part of broader sustainable development. The National Development Plan (NDP) elaborates our vision for 2030 and sets out national sustainable development objectives. The NDP can be read through the lens of the global Sustainable Development Goals (SDGs), expressing a vision of a country with no poverty (SDG1), affordable and clean energy (SDG7), reduced inequality (SDG10), climate action (SDG 13) supported by Partnerships for the Goals (SDG 17). This second NDC is an integral

part of implementing our NDP. We understand that this will require shifting our development path to increased sustainability, social inclusion and move to a low emissions and climate resilient future for all South Africans.

Our approach is based on fairness and ambition, informed by best available science. The principles of equity and common but differentiated responsibilities and respective capabilities, in the light of different national circumstances, is enshrined in the Paris Agreement, and our national legislation. This second NDCs represents our highest possible ambition, in the context of equity – and we see implementation as key to ambition. Implementing our NDCs will position South Africa in the future global economy. Economic diversification will be essential, and our objectives for structural transformation are low employment, low emissions and zero hazards, with social protection especially for vulnerable workers and communities. In preparing this NDC, we followed an all-of-economy, all-of-society approach. Climate change is a global challenge, requiring collective action. South Africa reaffirms its steadfast commitments to the multi-lateral rules-based climate regime under the UNFCCC and its Paris Agreement.

### **b. Updates on national priorities and progress made since 2021 update of first NDC**

Since 2021, South Africa has made significant progress in implementing its response to climate change. In 2024, Parliament passed framework legislation, the Climate Change Act, providing a firm legal basis for climate action. The 2019 Carbon Tax Act has been implemented, and is entering a second phase with an increased tax rate. The 2019 Integrated Resource Plan for electricity has been updated in 2025. The Climate Change Act gives responsibilities to Ministers responsible for a wide range of line functions for implementing adaptation and mitigation. On mitigation, the Climate Change Act mandates updates of our National GHG emission reduction trajectory (NGERT) by the Minister of Environment every five years, and an updated NGERT will inform our third NDC. Mitigation targets in our first NDCs have taken "the form of a peak, plateau and decline GHG emissions trajectory range", now we will implement a just transition to net zero CO<sub>2</sub> emissions by 2050. On adaptation, South Africa has progressed from a 2006 framework to a first National Climate Change Adaptation Strategy (NCCAS), adopted in 2020, which serves as SA's National Adaptation Plan (NAP) submitted to the UNFCCC in 2021. We are moving increasingly to operational adaptation planning and implementing actions. Implementing the adaptation provisions of our Climate Change Act will include significant support for provincial and local government in South Africa. Climate action requires integrated policy packages, and hence increased coordination. We have continued to strengthen institutional capacities and arrangements. The Presidential Climate Commission, initiated in 2018 has developed a Just Transition Framework – and the 2024 Act defines its functions legally. The first Just Energy Transition Partnership (JETP) was established by South Africa and international partners, and the JETP investment and implementation plans support equitable and ambitious climate action in South Africa, ensuring no one is left behind as the country moves towards a low-carbon, climate-resilient economy. Industrial policy pursues socially inclusive green industrialization, and increasingly integrates decarbonization and economic diversification. We will work in solidarity with other African countries on regional beneficiation at source and strengthening continental trade to expand regional green minerals value chains.

### **c. Climate impacts experienced in South Africa**

Climate change is one of the greatest challenges of our generation. Despite efforts in global mitigation, these fall short of what is needed to keep temperature increase below 1.5 °C above pre-industrial levels. Rising global emissions mean increasing impacts.

Between 1.5°C and 2°C global warming above pre-industrial levels, negative impacts are projected to become increasingly widespread and severe with reduced food production, reduced economic growth, increased inequality and poverty, biodiversity loss, increased human morbidity and mortality. Limiting global warming to 1.5°C is expected to substantially reduce damages to the South African economy, agriculture, human health, and ecosystems compared to higher levels of global warming.

Africa is warming at approximately 1.5 times the global average rate, leading to more frequent and severe extreme weather events across the continent, and causing an increase in climate-related impacts in South Africa. In recent years, the country has experienced a range of extreme weather events – including devastating floods in KwaZulu-Natal, Eastern Cape and Western Cape, record-breaking heatwaves in the Northern Cape and other interior provinces, prolonged drought conditions in various regions including the Eastern Cape, Western Cape and Free State, more frequent intense storms in Gauteng, and severe wildfires in the Western Cape – with poor communities suffering the worst impacts, and businesses and municipalities struggling to keep operations going during these events and recover to full operational capacity before experiencing the next extreme event. While various coping and adaptation measures have been implemented, the scale and persistence of impacts highlights the inadequacy of efforts to-date, and evidence the gap in readiness for dealing with increasing frequency and magnitude of climate impacts projected for the 2030s.

Some of the greatest gains for climate change risk reduction can be achieved in South Africa through reducing vulnerability. KwaZulu Natal, North West, Limpopo and the Eastern Cape provinces show high levels of multidimensional vulnerability to climate change at the household level, especially due to widespread lack of access to safe water and toilet facilities and high levels of food poverty. While spatial targeting of adaptation efforts and support is important, the reality is that inequalities of vulnerability within provinces and municipalities are high. For example, municipalities in the eastern part of the Eastern Cape show a higher level of climate vulnerability than those in the western part of the province. Vulnerability is higher for households that are primarily engaged in climate sensitive livelihoods (e.g. rain-fed agriculture, fisheries, construction); have household members that are pregnant, young, elderly, or are living with disabilities; do not have adequate access to food to meet their daily nutritional requirements; do not have adequate access to clean water and/or safe sanitation within 200m of their homes, and who live in an informal dwelling, which makes them especially susceptible to the impacts of climate change. Gini coefficient estimates of a multidimensional climate vulnerability index for each local municipality reveal a concentration of high inequality in the Western Cape, Gauteng, Northern Cape, and Free State provinces, requiring a set of adaptation interventions that target the most vulnerable across the country. Reliable, comparable, spatially and socially disaggregated data (including by gender and age) on experienced climate and weather impacts are not readily available, urgently requiring finance to build up a robust picture of the distribution and changes of impacts and associated losses and damages over time, to target adaptation investments.

Increasing impacts mean increasing adaptation needs, and associated costs. And where the limits to adaptation are exceeded, increasing loss and damage. Loss and damage is here and now in South Africa. Future impacts from climate extremes in heat and rainfall may reduce South Africa's GDP by 3% to 20% GDP per capita, depending on the average Global Warming Level (GWL). National-level costs of the impacts of climate change on infrastructure in South Africa are estimated to vary between US\$116.8 million and US\$228.7 million annually at 1.5°C GWL and up to US\$522.0 million (2°C GWL) average annual costs if no adaptation action is taken. Our scientists are working to understand attribution ever better. There are multiple drivers due to multiple factors, including heavy dependence on climate sensitive sectors, underinvestment in the maintenance, expansion and upgrading of public infrastructure, a lack of spatial integration due to the legacies of colonialism and apartheid,

highly unequal adaptive capacity, persistently high levels of poverty and unemployment, and limited access to finance and technology. Climate justice is central to South Africa's adaptation agenda.

### 3. Adaptation

#### a. Adaptation communication, national adaptation strategy and plan

South Africa submits its second adaptation communication as part of its Nationally Determined Contribution (A-NDC) in line with the Paris Agreement in Article 7, paragraph 11. Our adaptation communication (AC) comprises this section, read together with impacts in 2 c above. We continue to apply the further guidance in relation to adaptation communications, contained in decision 9/CMA.1 including the elements in its Annex, noting that this guidance is being reviewed in 2025. Furthermore, in preparing this second A-NDC, South Africa has reviewed the adaptation goals in our first NDC as updated in 2021, taking into account the thematic targets which were globally agreed in the Framework for Global Climate Resilience (FGCR) under the Global Goal on Adaptation (GGA) and referenced in the GST outcome (decisions 2/CMA.5 and 1/CMA.5, respectively).

South Africa considers this A-NDC as its fair and ambitious contribution to multilateral efforts to achieve two of the long-term goals of the Paris Agreement, the Global Goal on Adaptation under Article 7.1 and the goal to increase the ability to adapt elaborated in Article 2.1 (b). These global goals are part of strengthening the global response to the threat of climate change, in the context of sustainable development and efforts to eradicate poverty. Making nationally determined contributions to these goals means enhancing adaptive capacity and implementing measures to reduce vulnerability to climate change. We note that the GGA explicitly refers to the global temperature goal, which is in Article 2.1a, as higher global warming levels lead to more adverse and extensive impacts. The GGA also enjoins all countries collectively to ensure an adequate adaptation response, since otherwise we will suffer increasing losses and damages, associated with the movement of people to less impacted places.

The National Climate Change Adaptation Strategy (NCCAS), developed in 2020 continues to provide a basis for climate change adaptation planning and implementation. The NCCAS serves as South Africa's National Adaptation Plan (NAP), submitted in 2021, demonstrating our commitment to our obligations in terms of Article 7.9 of the Paris Agreement. The NCCAS is an important policy instrument in which national strategic objectives and desired outcomes for climate change adaptation have been articulated to provide overarching guidance to all sectors of the economy in implementing adaptation. The NCCAS is strengthened by the Climate Change Act of 2024 that establishes a mandatory and recurring process for climate risk and vulnerability assessments, adaptation planning, and reporting for national, provincial, and municipal government spheres and identified sectors.

#### b. Climate hazards, risks and vulnerability

South Africa is experiencing significant climate shifts, with temperatures rising faster than the global average, leading to more frequent and severe extreme weather events, including droughts, floods, heatwaves and wildfires. Key risks facing South Africa from current and future impacts of climate change are determined by more than climatic hazards, and are affected by vulnerabilities, exposures and responses to climate change. Risks become particularly severe under specific conditions of vulnerability that make the impacts of climate change negatively affect some groups more than others and where risks interact and concatenate. Of key concern for South Africa are:

1. Risks of water and energy insecurity due to drought-induced shortage of water supply and hydropower. Projections show that many South African settlements will face increasing risk to water access and quality under increased warming.
2. Risks of food insecurity, malnutrition and loss of livelihoods due to reduced food production from crops, livestock and fisheries linked to increasing heatwaves and shifting rainfall patterns at critical times in plant seeding, animal breeding and maturation cycles and harvesting periods. Future warming is

expected to negatively affect food systems and agricultural livelihoods by shortening growing seasons and increasing water stress with particularly high risk to female-headed households in agricultural districts in South Africa.

3. Risks of decreased economic output and increased poverty and unemployment rates due to increased heat and frequency and severity of droughts, storms and flooding undermining livelihoods and business operations, especially in agriculture, fisheries, construction, tourism and logistics.
4. Risks of increasing costs of use, maintenance and repair to infrastructure, notably including roads and energy generation and distribution infrastructure, due to projected trends in rainfall, temperature and sea level rise, with cascading impacts associated with disruption to health services, education, financial systems, transport and logistics, and water treatment
5. Risks of increased mortality and morbidity due to increased vector-borne and diarrhoeal diseases linked to increasing rainfall intensity and poor sanitation, as well as heat stress, especially informal settlements. Mortality and morbidity will escalate with further global warming, placing additional strain on South Africa's health and economic systems.
6. Risks of extinction of animal, insect and plant species and loss of ecosystems and their services in marine, freshwater and land ecosystems due to heat, acidification, wind and water stress, together with habitat fragmentation. South African biodiversity loss is projected to be widespread and escalating with every 0.5°C increase above present-day global warming.
7. Risks of growing and widespread economic and non-economic losses and damages to heritage and loss or significant change in cultural resources that contribute to adaptive capacity and resilience, including Indigenous Knowledge and local knowledges, identity, social cohesion, social and kinship reciprocity networks and practices.
8. Risks of transboundary, cascading and compounding risks to regional economies, public service provision and governance due to severe, concurrent or successive climate-intensified disasters (floods, droughts, fires, wind, heat) affecting water security, energy security, and human mobility across the southern Africa region and the African continent. Trends in current exposure of people, assets and infrastructure to climate hazards will increase under future warming levels and be affected by rates of urbanisation, infrastructure deficit, and informal settlement population growth. Climate change is projected to increase internal and rural-to-urban migration within South Africa and cross border migration in southern Africa, due to the direct and indirect environmental stressors on people's livelihoods associated with the impacts of climate change.

Sectors of emerging concern for future climate risks in South Africa are energy, education and heritage. South Africa faces an increase in cooling demand with seasonal increases for cooling demands are expected to increase over an extended summer period (September to April). High temperatures, low rainfall and flooding, especially in the growing season, that affect school attendance are projected to undermine educational attainment and human capital development in South Africa, unless proactive adaptation measures are invested in. South Africa hosts many cultural and natural World Heritage Sites and Ramsar sites projected to be exposed to impacts of extreme sea levels associated with sea level rise and coastal erosion.

### **c. Adaptation goals, interventions and progression**

South Africa had identified five goals in our updated and enhanced A-NDC in 2021. Being committed to progression in its adaptation goals and interventions, with a strong focus on implementation, we have identified seven goals in Table 1, together with priority interventions to achieve them, ways of tracking progress, and support needed.



Table 1: National adaptation goals, interventions, ways of tracking and finance needs in South Africa's Adaptation Communication in its second NDC

National goals for the periods 2026-2030 and 2031-2035	Priority interventions to achieve goal	Ways to track progress of adaptation	Adaptation finance needed (2026 - 2035)
Goal 1: Adapt South Africa's water and sanitation systems to drying conditions and drought and flood intensification, as water underpins human, plant and animal health and all economic and livelihood activities	<p>Support municipalities develop updated Water Preparedness Plans and Water Safety Plans;</p> <p>Programmes to reduce water losses &amp; non-revenue water (NRW);</p> <p>Enhanced water monitoring (flows, quality, consumption);</p> <p>Restore catchments &amp; wetlands, removing invasive alien plants (IAPs);</p> <p>Revise water allocations, restrictions &amp; pricing;</p> <p>Water augmentation &amp; diversification schemes, focussing on reuse &amp; groundwater;</p> <p>Innovate with low-flow and waterless sanitation solutions;</p> <p>Expand water stewardship programmes;</p> <p>Invest in regional, transboundary water management arrangements</p>	<p>Share of updated Reconciliation and Planning Studies for bulk water supply system and All Towns Studies;</p> <p>Number of municipalities reporting water losses over a quarter of supply; Share of service providers achieving Blue and Green Drop status; share of wastewater reuse; Total area with maintained removal of IAPs; Total area formally under water stewardship programmes</p>	TBD
Goal 2: Enhance disaster risk management, healthcare and sanitation provision, especially in informal settlements, to reduce impacts of flooding and heat	<p>Emergency shelters designated &amp; kitted to be community rescue &amp; care hubs, cooling centres &amp; temporary accommodation for flood-displaced people tailored to needs of marginalised groups in high-risk municipalities;</p>	<p>Perceived access to safe spaces captured in census;</p> <p>Loss of lives in flood and heatwave events;</p> <p>Ratio of households to toilet facilities;</p>	TBD

National goals for the periods 2026-2030 and 2031-2035	Priority interventions to achieve goal	Ways to track progress of adaptation	Adaptation finance needed (2026 - 2035)
stress on most vulnerable households	<p>Training and support to community-based organisations providing care services to young children, elderly and people living with disabilities;</p> <p>Enhance clinical resources to diagnose and treat water- and vector-borne diseases;</p> <p>Extend and upgrade sanitation services in high-risk informal settlements, especially near food vendors</p>	Incidence of cholera and diarrheal disease	
Goal 3: Upgrade critical transport infrastructure (roads, rail, ports) to maintain functioning under increased rainfall intensity, heat stress, wind speeds and storm surges	<p>Expand maintenance programmes to remove blockages (e.g. invasive plants, solid waste, wind-blown sand);</p> <p>Coastal dune rehabilitation;</p> <p>Flood and erosion defences;</p> <p>Upgrade built and ecological drainage infrastructure;</p> <p>Upgrades to transmission &amp; distribution infrastructure;</p> <p>Managed retreat and relocation of key infrastructure from high-risk zones</p>	<p>Reported road closures and repair costs;</p> <p>Logistics and supply chain interruptions and port backlogs;</p> <p>Disaster incident reports</p>	TBD
Goal 4: Enhance nutritious food access and affordability through support to agricultural and fisheries producers and distributors in adapting to warmer and windier conditions and changes in rainfall	<p>Support to develop, adopt &amp; market drought-resistant crop varieties &amp; heat tolerant livestock and aquaculture species;</p> <p>Enhance market access for small-scale producers;</p> <p>Improve irrigation efficiency;</p> <p>Training and accreditation of sustainable land management and sustainable fishing and aquaculture practices;</p> <p>Enhance access to tailored climate information;</p>	<p>Increase in annual average cost of basic food basket;</p> <p>Number of extension officers per district;</p> <p>share of children under 5 presenting signs of malnutrition;</p>	TBD

National goals for the periods 2026-2030 and 2031-2035	Priority interventions to achieve goal	Ways to track progress of adaptation	Adaptation finance needed (2026 - 2035)
	Affordable climate risk insurance schemes; Support with shade netting infrastructure	Incidence of vector-borne diseases in livestock; Registered crop losses	
Goal 5: Enhance climate services, with early warning and impact information made accessible to a wide range of users, tailored to different operational, language, gender, age and disability needs	Enhance early warning systems (monitoring, warning dissemination and response triggers), building on SAWS multi-hazard EWS; Train community leaders in climate information interpretation and response measures; Develop a national inventory of impacts to complement EWS with bottom-up data collection, DFFE coordinating and supporting efforts by local authorities and communities; SADC integrated regional drought monitoring system	Number of hydro-met monitoring stations operational; Number of registered users and active data contributors to climate services platform	TBD
Goal 6: Enhance ecosystem-based adaptation to heat and water stress, protecting South Africa's natural heritage, biodiversity and improving ecosystem functioning that underpins our cultural identity, food systems, human wellbeing and our tourism economy	Redesign national-scale agricultural extension programme to support sustainable rangeland management and fire management; Spatially targeted restoration initiatives in critical biodiversity areas & ecological support areas, especially strategic water source areas; Invasive Alien Plant clearing and management; Review ecological reserve determinations for surface and groundwater catchments; Expand conservation estate & protected area network; Strengthen protected area management;	Coverage of protected area network, extent and share of total land area; Distribution of indicator species	TBD

National goals for the periods 2026-2030 and 2031-2035	Priority interventions to achieve goal	Ways to track progress of adaptation	Adaptation finance needed (2026 - 2035)
	Expand land and water stewardship programmes		
Goal 7: Capacitate all spheres of government to implement adaptation through enacting and enforcing all provisions of Climate Change Act	<p>Develop and implement Sector Adaptation Strategies and Plans, consistent with NCCAS;</p> <p>Network of project preparation facilities supporting municipalities access suitable financing for robust adaptation interventions;</p> <p>Climate jobs register with a focus on youth and gender inclusion;</p> <p>Fully functioning adaptation MEL system for routine BRT and GST reporting</p>	<p>Annual adaptation spend;</p> <p>Number of climate jobs filled;</p> <p>Sector Adaptation Strategies and Plans reviewed and adjusted every five years; Adaptation Synthesis Reports published</p>	TBD
Goal 8: Enhanced efforts to build climate resilient human settlements and resilient infrastructure.	<p>Develop the Human Settlement Climate Change Adaptation Strategy/ Climate Change Response Strategy and/or Plan.</p> <p>Conduct climate risk and vulnerabilities on Priority Human Settlement and Housing Development Areas (PHSHDA).</p> <p>Support ecological infrastructure interventions as part of building the climate resilient infrastructure..</p>	Number of instruments and tools developed to integrate climate consideration in spatial planning and human settlements.	TBD



South Africa has nationally determined the seven goals in Table 1 and will implement interventions to achieve them, consistent with our Climate Change Act, and National Climate Change Adaptation Strategy (which serves as our national adaptation plan). We have taken into account the outcome of the first GST, which as indicated above included 11 global targets under the FGCR, developed under the GGA (decisions 1/CMA.5 and 2/CMA.5). Taken together, the 7 goals will contribute to the Parties collectively achieving the Global Goal on Adaptation. Implementing actions to achieve these goals is our fair and ambitious contribution to global targets. Our national goals address water (1), food and agriculture (4); health (1,2); and infrastructure and human settlements (2, 3); and poverty and livelihoods (2,4). Several goals have cross-cutting characteristics (5,7), addressing poverty, inequality; cultural heritage and protecting ecosystems and biodiversity (6). We have also considered how targets relating to an iterative adaptation cycle can assist our country in implementing adaptation (5,7). In preparing this second A-NDC, we have assessed impact, vulnerability and risk; undertaken further planning; and intend to further strengthen our existing monitoring, evaluation and learning (MEL) system. We aim to produce synthesis reports on adaptation every two years, and these will provide an important information base for our biennial transparency reports, and contribute to the next global stocktake.

For each goal, interventions are needed, and we are costing the required support. Equity and ambition apply to adaptation and just adaptation is addressed in an integrated manner, under information necessary for clarity, transparency and understanding (see Table 3 below, 6 a) and as matters of Equity and Science (section 7 below).

#### **d. Institutional arrangements**

The 2024 Climate Change Act provides a legal basis for implementation of adaptation, with responsibilities for national, provincial and local government. Guided by the Act, the Department of Environment, Forestry and Fisheries is developing adaptation objectives and indicators, aligned with the NCCAS and NDC. The Act further mandates the Presidential Climate Commission with advising on the country's vision for just transitions to a low-carbon and climate-resilient economy and society.

South Africa engages with the UNFCCC financial mechanism through its accredited entities, namely the South African National Biodiversity Institute (SANBI) as a national implementing entity, and the Development Bank of Southern Africa (DBSA) as a regional accredited entity to the Green Climate Fund. These institutions play an important role in mobilising and managing climate finance to support national priorities, including the implementation of adaptation and mitigation actions outlined in this NDC. Based on a growing need to mobilise funds for adaptation, a Just Adaptation and Resilience Investment Plan (JAR-IP) is also being developed and will seek international climate finance for adaptation, to support a country-driven, coherent and strategic programme of building adaptive capacity and climate resilient development.

Information on climate impacts is an essential basis for action on adaptation and to address loss & damage. Institutional arrangements are critical for information collection, processing and producing policy-relevant information, as evident in technical findings and the political outcome of the first GST. The South African Weather Service (SAWS) provides climate information, and has established in collaboration with other stakeholders, a multi-hazard early warning system (MHEWS). The MHEWS provides an important platform for collection of information, drawing on remote sensing and ground-based observations. To further strengthen MHEWS for the purposes of delivering tailored and actionable climate services, more bottom-up approaches are complementary. To strengthen our information base on climate impacts, South Africa will establish and maintain inventories of impacts. The envisaged new institutional arrangements will involve local communities in collecting data, supported by local authorities working with provincial and national governments. Information will be reported and DFFE will develop a national inventory of impacts. Over time, the information base on climate impacts will be continuously improved. In this way, SA will strengthen the information base for action on adaptation and L&D.

#### **e. Specifying adaptation needs**

South Africa is seeking international support for sanitation infrastructure upgrading in rapidly growing informal settlements (with a focus on secondary cities), conservation agriculture and sustainable rangeland management programmes for emerging and commercial farmers, market access support for aquaculture small and medium-sized enterprises, catchment restoration in strategic water source areas, the scaling out of water conservation and demand management strategies, the design and construction of water reuse and managed aquifer schemes for water stressed municipalities, the upgrading of energy transmission infrastructure to withstand increasing heat, winds and storms, improving health surveillance systems, and enhancing transboundary water management functions.

### **4. Loss and Damage**

#### **a. Limits to adaptation**

As climate impacts increase, limits to adaptation become policy-relevant. South Africa recognises and seeks to assess thresholds beyond which climate impacts overwhelm the possibility of further adjustment, rendering infrastructures, economic activities and ecosystems unviable. These thresholds are linked to the magnitude and pace of change, notably warming, drying and rising sea levels, which in turn depend on global mitigation efforts. Limits to adaptation reflect constraints on capacity, such as insufficient resources within the country, weak institutional arrangements, or social and political marginalization. That does not mean that no adaptation is possible beyond such soft limits, but rather its growing difficulty or inadequacy. While there is no strict cutoff, inadequate adaptation can lead to significant loss and damage, especially for poorer communities.

#### **b. Loss and damage in SA due to climate impacts**

Shifting climate conditions are already having damaging and costly impacts across multiple sectors. Various public and private adaptation efforts are already underway to reduce the impacts of extreme and slow onset climate events, but much more adaptation implementation is needed. Water and sanitation service provision in South Africa have been negatively impacted by drought and flooding, with cascading impacts on health, tourism, and economic outputs. Climate change is reducing crop and livestock yields, negatively impacting the productivity of smallholder, commercial and mixed farms. Climate change has contributed to reduced economic growth for South Africa through impacts on working hours of low-skilled labour in highly exposed sectors, especially among women, leading to impacts on agriculture, tourism, manufacturing and infrastructure construction and maintenance; as well as through negative impacts on marine fisheries and financial services. Climate change has already negatively impacted the health of South Africans through exposure to non-optimal temperatures and extreme weather that has increased the range and transmission of infectious diseases, increased heat-related mortality, increased mental health and suicide, and homicide risk, and drought-associated malnutrition. Pregnant women, elderly and children under 5-years are particularly vulnerable to heat exposure. Changes in wind patterns, and air and water temperatures, and acidification in and around South Africa are destroying marine biodiversity, reducing the productivity of freshwater bodies, and changing animal and vegetation distributions. Temperatures are approaching species physiological limits, with heat extremes driving mass mortality events in birds and bats, and changes in vegetation impacting fire regimes. Exposure of people, assets and infrastructure to climate hazards, particularly floods and heatwaves, is increasing in South Africa affecting access to economic opportunities, transportation of goods and services (including health and education), and human mobility. Higher temperatures and precipitation extremes have been linked to increased rural out-migration, especially among low-income groups, in South Africa. South Africa's cultural and natural heritage have been affected by climate hazards, including heat, rainfall variability, sea level rise and coastal erosion resulting in the loss of flora and fauna, decreasing visitation rates of tourists to South African national parks.

### **c. Institutional arrangements**

South Africa has a Disaster Management Act that provides an integrated and coordinated framework and set of institutional arrangements for preventing or proactively reducing the risk of disasters. Existing institutional arrangements and capacities will be strengthened to address losses and damages due to climate change. These include the existing National Disaster Management Centre (NDMC) working closely with provincial and municipal disaster management centres to assess, prevent, respond to and recover from climate-related extreme events. Both emergency preparedness and response, and longer-term loss & damage recovery, need to be strengthened further as climate impacts intensify. Data from the inventory of impacts and the multi-hazard early warning system will strengthen the information base to address loss and damage, and monitoring, evaluation and learning systems will support continuous improvement.

### **d. Needs arising in addressing L&D**

When limits to adaptation are exceeded, we suffer loss and damage. Support for improving data collection, processing and storage of gender-disaggregated disaster impacts, losses and damages is essential to underpin an evidence based approach. Reducing vulnerabilities through settlement and infrastructure upgrading, enhancing food security, water catchment and ecosystem restoration, and strengthening disaster management functions is a priority for limiting loss and damage. Irreplaceable cultural heritage sites and indigenous knowledge systems are emerging as key concerns for avoiding loss and damage. While national government will do all it can, its resources and capacities are already being exceeded. This means there are increasing needs for international support to address loss and damage.

### **e. Funding of L&D**

South Africa had established a Green Fund, and in 2024 initiated the establishment of a Climate Change Response Fund (CCRF) to put in place the institutional arrangements for funding of adaptation, loss & damage and mitigation. In this context, South Africa expects a fair share of international climate finance, to be provided by the Fund for responding to Loss & Damage. Getting the international Loss and Damage Fund, established in 2023, well-resourced with effective mechanisms to claim and disburse monies in a timely manner to those worst impacted is a priority for South Africa.

## **5. Mitigation**

### **a. Approach to setting mitigation targets and contribution to global long-term goal on mitigation**

South Africa submits a mitigation target in its second NDC for the year 2035, meeting our obligations under Article 4 of the Paris Agreement. The mitigation component of our NDC is a fair and ambitious contribution to global efforts, and achieving our collective long-term goal on mitigation (LTG-M). The LTG-M in Article 4.1 states that, in order to achieve the global temperature goal as per article 2.1(a), global emissions must peak as soon as possible, recognizes that this will take longer in developing countries, and calls for rapid reductions after peaking, seeking a balance of emissions by sources and removals by sinks, in the context of equity sustainable development, poverty eradication. We have also reviewed mitigation targets in our first NDC as updated in 2021, in the light of the LTG-M and the outcomes of GST1.

### **b. Methodological consistency in setting and accounting for mitigation targets**

Coverage, scope and the methodological basis for estimating and projecting emissions to inform South Africa's mitigation targets in our second NDC are based on the national GHG inventory, use IPCC methodologies, and reflect some uncertainties. The mitigation component of the NDC has been updated to further improve consistency with our latest GHG inventory in terms of coverage, scope and methodological approaches. South Africa communicated its ninth National Inventory Report (NIR), reporting emissions for the year 2000-2022, as part of its first Biennial Transparency Report.

The mitigation targets in Table 2 below are economy-wide emission reduction targets, appropriate to our national circumstances. Coverage is thus economy-wide, including the land sector (see note below), and includes all gases, sectors and sources covered by the most recent national GHG inventory; South Africa will account for its target as required by decision 18/CMA.1 using the most recent GHG inventory at the time of accounting, including all gases, sectors and sources included in that GHG inventory.

The ninth NIR uses the Global Warming Potential (GWP) values from the IPCC's 5<sup>th</sup> Assessment Report, rather than the 2<sup>nd</sup> Assessment report values used in the NIR at the time of submitting the first updated NDC. The ninth NIR also applies the 2019 Refinement to the 2006 IPCC Guidelines, whereas previous NIRs applied only the 2006 guidelines. South Africa's emissions peaked in 2008/9 (including / excluding LULUCF, as reported in the ninth NIR and elaborated under ICTU).

### c. Mitigation targets for 2026-2030 and 2031-2035

Consistent with South Africa's first NDC, and updated first NDC in 2021, mitigation targets reflect our highest possible ambition and are put forward in the context of equity common but differentiated responsibilities and respective capabilities, in the light of different national circumstances. Building on previous NDCs and emissions trajectory ranges, we communicate in this second NDC mitigation target ranges for two periods of implementation. South Africa, maintains the range in our 2021 updated NDC for 2026 to 2030, and communicates a new target range for the next five-year period, 2031-2035, specifying target ranges to be achieved in 2030 and 2035 in Table 2 below. In communicating these mitigation targets, we took account of the outcomes of the first GST. South Africa considers the mitigation target ranges in this NDC to be an ambitious and equitable contribution to the global mitigation effort, given South Africa's current and historical emissions and its national circumstances (especially its development challenges). We also fulfil our obligation to pursue domestic mitigation measures to achieve these targets, affirming that "the full implementation of these policies and plans will bend the curve of South Africa's GHG emissions" to our long-term trajectory, as stated in our first NDC. The 2024 Climate Change Act mandates a National GHG Emission Reduction Trajectory (NGERT), which will be updated every five years. Until a new NGERT has been determined, in terms of the Act, this second NDC serves as the trajectory. South Africa is at the same updating our low-emissions development strategy consistent with our Just Transition Framework, which specifies the goal of reaching net zero CO<sub>2</sub> emissions by 2050.

South Africa's updated mitigation targets are contained in Table 2, with further information contained in Table 3 which provides information to facilitate transparency, clarity and understanding as specified in Annex I to decision 4/CMA.1 :

Table 2: South Africa's mitigation targets in its second NDC

Period of implementation	Target
2026-2030	South Africa's annual GHG emissions will be in a range from 350-420 Mt CO <sub>2</sub> -eq in 2030
2031-2035	South Africa's annual GHG emissions will be in a range from 320-380 Mt CO <sub>2</sub> -eq in 2035

In preparing the mitigation component of our second NDC, South Africa took into account the outcome of GST1, decision 1/CMA.5, paragraphs 18 – 42 on mitigation. GST1 noted that four-fifths of the total global carbon budget (GCB) consistent with keeping global warming below 1.5 °C has already been spent. Profligate historical emissions are the reason we have little GCB remaining. South Africa follows the spirit of GST1, which takes into account historical responsibility and responsibility for the future. It would not be fair to expect poor communities to forego survival emissions, in this context. We considered the required ranges, based on IPCC AR6, of global mitigation pathways consistent with collectively achieving the long-term goals of the Paris Agreement, while affirming that how global ranges are translated to national scale is a matter of equity. SA is of the view that



aligning any single NDC with limiting global warming to 1.5 °C can be done robustly only when addressing differences in time-scales, spatial scales, and equity. We look forward to a conversation to agree equity indicators, building on the work in the GST, including its technical dialogue. Meanwhile, we expect developed countries, having peaked, to continue to take the lead by much more rapidly decreasing their emissions. While putting forward mitigation targets and actions consistent with our highest possible ambition, the greater responsibility and capability of developed countries means they must undertake more ambitious mitigation and provide support, including finance, technology and capacity-building, to developing countries including South Africa.

We thus respond to the call to contribute to global efforts in GST1, as we nationally determine pathways and approaches to our just transition. Our electricity plan envisages adding significant renewable energy (RE) to the South African power system, as reflected in detail in the updated IRP 2025, and the South African Renewable Energy Masterplan (SAREM) puts forward a clear plan on how to develop the renewable energy components industry by building renewable energy and storage value chains, through localisation drives on both the public and private sector markets. The IRP 2025 indicates that a total of 36 GW of new renewable energy capacity will be installed by 2035, thus contributing to green industrialisation and helping to achieve the mitigation targets in this second NDC.

In common with other developing countries, and especially African countries, the cost of capital for these investments must be reduced to avoid unsustainable debt levels, and grant finance will remain important for climate-friendly systems and technologies that still have an incremental cost. We will undertake a transition away from fossil fuels in a just, orderly and equitable manner, so as to achieve net zero CO<sub>2</sub> emissions by 2050 within a context of sustainable development. Affordable access to energy services is a national goal, and understood as helping to achieve SDG7 globally. We also note that the GST1 outcome on mitigation reaffirms, explicitly, the nationally determined nature of NDCs. For South Africa, Article 4.4 is of the highest importance. We are continuing to enhance our mitigation efforts.

Fulfilling its obligation under Article 4.2 of the Paris Agreement, South Africa continues to pursue domestic mitigation measures, with the aim of achieving the objectives of our NDC.

We have undertaken detailed analysis and modelling of mitigation policies and measures, as part of our preparation of this second NDC (UCT 2025b) to implement between now and 2035, and those that can benefit from international climate finance. While our mitigation targets do not take the form of PAMs, so how our mitigation targets are achieved is our prerogative to adjust, some domestic mitigation measures are elaborated in ICTU (row 7 d), which also provides information on possible use of internationally transferred of mitigation outcomes (5 g).

South Africa will account for the mitigation targets contained in this NDC in our Biennial Transparency Reports, in accordance with Article 13 of the Paris Agreement and decision 18/CMA.1, and any subsequent CMA decisions, as applicable. In accounting for mitigation targets in its NDC, South Africa will use an inventory-based approach for all sectors, which is described in more detail in the 'information to facilitate clarity, transparency and understanding' (contained in Table 3 below). The target will be accounted for using the most recently available national inventory report, and will reflect gases, sectors and sources covered in that report, and will use GWP values consistent with those used in that report.

For accounting against our NDC target, land sector emissions arising from natural disturbances will be *excluded* from total land sector emissions/sinks (IPCC 2006 guidelines categories 3B and 3D), as reflected in our first updated NDC. South Africa applied this accounting approach for the first time in our first biennial transparency report, submitted in December 2024, which records that GHG emissions from natural disturbances were 52251 Gg in 2021, and 40864 Gg in 2022 (both in CO<sub>2</sub>-eq). South Africa will continue to take this approach in accounting for our second NDC, to address significant interannual variations in emissions from natural disturbances – in the case of South Africa, stemming mainly from wildfires. Emissions from this source vary considerably and unpredictably from year to year, and this variability is likely to grow with further climate change.

The overall target will therefore be accounted for by comparing the target value with total national GHG emissions, including the land sector, and *excluding* emissions from natural disturbances. For the purposes of transparency, and to assist in account for our NDC, GHG emissions from natural disturbances will be reported in a dedicated annex to South Africa's national inventory document submitted with our Biennial Transparency Reports.

For each five-year period, emissions can be added from the start to end year, assuming a linear decrease. The results are national emission budgets, for lower and upper mitigation targets and net zero CO<sub>2</sub> emissions in 2050. The calculated budgets for 2026-2030 are 1.9 -2.3 Gt CO<sub>2</sub>-eq, and for 2031-2035 are 1.7 – 2.0 Gt CO<sub>2</sub>-eq, dependent on upper or lower mitigation target range. While these budgets are indicative, and our commitment is to the ranges in Table 2, the national emissions budgets in this second NDC are significantly lower than those in our first NDC, which indicated that the "national carbon budget range for the period 2021-2025 is 1.99 -3.01 Gt CO<sub>2</sub>-eq and for 2026-2030 is in the range of 1.99 to 3.07 Gt CO<sub>2</sub>-eq." (RSA 2016).

South Africa has considered how the mitigation target ranges are fair and ambitious contributions to the long-term goals of the Paris Agreement, through fair share analysis up to 2035, and just transition to net zero CO<sub>2</sub> emissions by 2050. Equity and ambition relate to mitigation, adaptation and finance, and are addressed in an integrated manner as matters of Equity and Science (section 7. below).

South Africa significantly increased the ambition of our mitigation target range for 2030, when updating our first NDC. In this second NDC, we communicate a mitigation target range for the period of implementation ending in 2035. We continue to show progression in our mitigation targets, as elaborated in information necessary for clarity, transparency and understanding (see Table 3 below, 6 a).

The extent to which South Africa can achieve these mitigation targets, and particularly the lower range, relates to support that developed countries continue to provide and mobilise to support country-driven mitigation strategies, consistent with Article 9. Support requirements are elaborated in section 6. below.

South Africa considers implementation to be part of ambition. Within each period of implementation, SA will report in its BTRs on progression in achieving its mitigation target in the end year. Given that national GHG emissions have peaked, and been roughly flat for some time, SA is moving into the phase of decline of its emissions. It is assumed that emissions in earlier years in a period of implementation will be higher than in the end year. The stringency of mitigation targets is increasing steadily.

South Africa considered equity in mitigation, including fair shares, for which there is a wide range of analyses – given that global warming levels such as 1.5 °C are assessed to 2100, that limiting temperature increase depends on all countries, and that fair share assessments are dependent on the choice of indicators used to approximate equity.

South Africa, in our LT-LEDS and Just Transition Framework expressed a commitment to implement a just transition to net zero CO<sub>2</sub> emissions by 2050. Equity in transitions is essential to address the socio-economic implications of mitigation, while showing progression in mitigation in successive mitigation targets in NDCs.

#### **d. Just transition to net zero carbon emissions by 2050**

As Parties to the Paris Agreement, we have urged each other to include just transitions to net zero emissions by or around mid-century in our long-term low GHG emissions development strategies (LT-LEDS), in decisions 1/CMA.3, 1/CMA.4 and 1/CMA.5 (the GST outcome). South Africa takes our just transition very seriously, and included net zero CO<sub>2</sub> emissions by 2050, in our 2020 LT-LEDS pursuant to Article 4.19 and our Just Transition Framework. Taking into account our national circumstances, and the priorities to create employment while reducing emissions, we have nationally determined the year as 2050 and CO<sub>2</sub> emissions as the relevant greenhouse gas. Pathways by which we can reach net zero CO<sub>2</sub> emissions by 2050 will be elaborated and quantified in our next LT-LEDS, which we are currently preparing. For this second NDC, just transitions to net zero CO<sub>2</sub> emissions provide a long-term perspective on nearer-term mitigation targets and their implementation, and frames ambition and equity in the longer term.

Our just transition will require shifting our development path toward increased sustainability, social inclusion, and a low emissions and climate resilient future for all. A structural transformation requires diversifying our economy away from a dependence on fossil fuels, in a just, orderly and equitable manner, and informed by best available science and sustainable development priorities. We aim to achieve low unemployment, net zero carbon emissions and zero hazards, with social protection especially for vulnerable workers and communities. It is a challenging undertaking to implement a just energy transition, and South Africa is taken on this generational challenge. As we diversify our economy's energy sources, the opportunities arising from structural transformation lie in delivering social justice and accelerating mitigation. Policies and measures that promote inclusive green industrialisation must integrate decarbonisation and economic diversification. Industrial policy will include beneficiation of critical transition minerals, ensuring national employment creation and participating in sustainable and equitable ways in green global value chains.

Ambition is integral to achieving net zero CO<sub>2</sub> emissions by 2050. For a developing countries, reaching this goal by 2050 is ambitious, and contributes to the global long-term goal on mitigation, under Article 4.1.

Equity in mitigation relates to rates of change, competitiveness and socio-economic implications of mitigation. While transformations in major systems are required in response to the climate crisis, very rapid change is disruptive, as was made clear in GST1. Very rapid rates of change as seen in steep modelled mitigation pathways would become unmanageable, and severe negative socio-economic impacts on workers and communities would be inequitable. Structural transformation should aim at social justice and accelerate mitigation actions. Competitiveness in a carbon-constrained future would position SA in the future global economy, through just structural transformation and green industrial policy, aimed at reducing emissions and increasing employment.

The socio-economic implications of mitigation are central to making our transition just. For each mitigation pathway, we considered socio-economic implications, and how they can increase employment, reduce poverty, keep energy prices affordable. Health is a key dimension of human development. In this regard, the co-benefits of mitigation in improving air quality is significant.

## 6. Support and means of implementation as provided for in Articles 9, 10 and 11 of the Paris Agreement

The support section of the NDC consists of three components: Firstly, support requirements are summarized qualitatively; secondly, the costs of both mitigation and adaptation measures, as well as funding for loss and damage, are outlined, and thirdly, South Africa's goal for accessing international support is defined. South Africa has accessed approximately USD 2 billion (R30 Billion) per year of international climate finance for 2018 and 2019, which has mobilized a far larger amount.

South Africa will maintain, its access goal stated in the 2021 NDC to access four times this amount annually by 2030 (USD 8 billion, R120 billion), and mobilise a far greater amount on this basis. For each US dollar raised in public climate finance, 3 to 10 additional US dollars are raised from private sources. These estimated resource requirements may change with changing circumstances international assistance in relation to climate finance and technology will be pivotal to the successful implementation of this NDC.

This goal will be reviewed in preparing our third NDC in 2030, in terms of South Africa's capability to raise climate finance, and its climate finance needs for mitigation and adaptation.

South Africa remains committed to contributing to the global efforts of meeting the objectives of the Paris Agreement whilst ensuring that the overriding national priorities of poverty eradication, reducing unemployment, and addressing inequalities as outlined in the National Development Plan, are met South Africa is grateful for the

support provide by developed country Parties in relation to the implementation of Article 9.1 of the Paris Agreement and Article 4 of the UN Framework Convention on Climate Change.

South Africa also accesses international support through multilateral channels (such as the Global Environment Facility, Climate Investment Funds (CIF) Green Climate Fund (GCF, Adaptation Fund, as well as other financial institutions, including the Multilateral Development Banks, as well through numerous bilateral channels. Since 2006, South Africa has been both a recipient and contributors to the GEF. Significant international cooperation, including pledge have been provide since the signing of the Just Transition Partnership at Glasgow COP in 2022. South Africa's accredited entities to the GCF have been able to both provide and mobilise private sector resource to support climate actions. South Africa continued to welcome addition resource, from bilateral, regional and international cooperation in the NDC implementation as recognized under Article 4.5 and 6 of the Paris Agreement, as well as the full implementation of the New Collective Quantified Goal, to facilitate and expedite and access to financial resources to support South Africa' mitigation and adaptation efforts towards a climate resilient future. .

South Africa will prepare a comprehensive financing strategy to implement the mitigation and adaptation components of the second NDC, with core indicators and targets for 2030 and 2035, will be developed and consulted upon. This work will highlight the financial support required for implementing the second NDC actions, possible access modalities, and support from multilateral financial institutions and development banks, including capacity building and technology development and transfer requirements, and gender equity and transformative actions for ensuring low emissions and climate resilient development. This work will also include a recommendation on the design and development of a governance framework and core indicators for the Climate Impact Response Fund announced by President Ramaphosa in 2023.

The NDC investment/finance plan may detail the commitments underpinning low emissions and climate resilient development pathway for South Africa, along with identifying potential barriers to overcome and actions which can help ensure the underlying commitments are met. Identifying the costs and funding sources associated with each initiative will help identify investment needs and potential funding gaps early. Drawing on a range of stakeholder engagement, the plan may also outline how South Africa can prioritize resources to achieve its climate goals. Based on the 2023 South African climate finance landscape report prepared by the Presidential Climate Commission, South Africa will develop a results management framework with key performance indicators to ensure climate finance is adequately being accesses, and mobilized, including the following initial KPIs:

- a. Significantly increasing access to adaptation finance (currently 12%)
- b. Broadening the application of innovative financial instruments, such and guarantees and equity (18%) and other non-debt instruments;
- c. Addressing gaps in pre-arranged finance and expending access to insurance to respond to loss and damage (USD 2 billion);
- d. Mobilizing and leveraging additional private sector contributions;
- e. Increasing access for local government climate actions.

## 7. Equity and science

Science and equity are fundamental bases of South Africa's approach to climate change. Equitable access to sustainable development is essential, as elaborated in our previous NDCs. Ambition and equity, based on best available science, were important considerations in the first GST. Equity and ambition apply across all domains of climate action: mitigation, adaptation, finance, addressing L&D and support. This is the case in GST1, and we apply this approach in our NDC. We explain how we consider this second NDC to be fair and ambitious, as required by decision 4/CMA.1. We do so across this second NDC, with an integrated discussion here, as well as in ICTU and ways to track progress in section 8.



On mitigation, we have considered how mitigation target ranges for 2026-2030 and 2031-2035 relate to fair shares, assessed as explained in ICTU (6a). We are showing progression in considering equity and ambition. We have added an additional tool to consider fair shares, the Climate Equity Monitor. The outcome of GST1 underlined that just transitions can support more robust and equitable mitigation outcomes, with tailored approaches addressing different contexts. In our context, reducing unemployment, poverty and inequality have the highest priority. Equity in mitigation is also framed by our just transition to net zero CO<sub>2</sub> emissions by 2050. This provides a long-term perspective on nearer-term mitigation action and support

On adaptation, the adaptation goals set out in Table 1 include ways to track progress, which demonstrates our commitment to science and in particular, strengthening the MEL system for adaptation and enhancing the evidence base on climate-related loss and damage. We are responding with ambition, noting the deep injustice that poor countries and communities are least resourced to adapt. The unequal burdens are reflected in scientific nationwide vulnerability assessments, which show that inadequate access to water, sanitation, food security, and safe housing significantly heighten risks for the most marginalised, particularly in rural and informal urban areas. Unequal burdens and adaptive capacities across municipalities and government levels mean that adaptation has to be just. Just adaptation means processes that are procedurally fair and socially inclusive. Distributional equity requires finance for adaptation, to which we are contributing, while expecting adequate support for adaptation through international climate finance. As science confirms that global warming is likely to exceed 1.5°C, scaled-up support becomes even more urgent. South Africa therefore expects its fair share of international climate finance to implement adaptation and to address loss and damage.

Finance that is fair and ambitious is an essential for ambitious action. We have outlined in this second NDC that we have established new funds, and will seek to fill these from domestic and international sources. The first GST considered means of implementation and support: finance, technology and capacity building. The GST outcome highlighted the "growing gap between the needs of developing country Parties, ... and the support provided and mobilized for their efforts to implement their nationally determined contributions, highlighting that such needs are currently estimated at USD 5.8-5.9 trillion for the pre-2030 period". We expect that international climate finance will be scaled up, consistent with the GST1 outcome, and finance to be commensurate with 1.5°C.

## 8. Information to facilitate clarity, transparency and understanding of mitigation, and ways to track progress of adaptation and support

### a. Information to facilitate clarity, transparency and understanding

Table 3: Information to facilitate clarity, transparency and understanding of South Africa's second NDC

Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
1. Quantifiable information on the reference point (including, as appropriate, a base year):	This section is not applicable to the South African NDC, since this second NDC does not define mitigation target in relation to a reference point, but as a fixed level GHG emissions range in 2030 and 2035. Therefore, each entry below is marked "Not applicable". This approach remains the same, as in the updated NDC in 2021.
(a) reference year(s), base year(s), reference period(s) or other starting point(s)	Not applicable, as above.
(b) Quantifiable information on the reference indicators, their values in the reference year(s), base year(s), reference period(s) or other starting point(s), and, as applicable, in the target year;	Not applicable, as above.
(c) For strategies, plans and actions referred to in Article 4, paragraph 6, of the Paris Agreement, or policies and measures as components of nationally determined contributions where paragraph	Not applicable, as above.
(d) Target relative to the reference indicator, expressed numerically, for example in percentage or amount of reduction;	Not applicable, as above.
(e) Information on sources of data used in quantifying the reference point(s);	Not applicable, as above.
(f) Information on the circumstances under which the Party may update the values of the reference indicators.	Not applicable, as above.
2. Time frames and/or periods for implementation:	

Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
(a) Time frame and/or period for implementation, including start and end date, consistent with any further relevant decision adopted by the Conference of the Parties serving as the meeting of the Parties to the Paris Agreement (CMA);	<p>The South African NDC is defined as having two timeframes of five years each, as we have done previously. We are pleased that all Parties have now agreed to common timeframes which facilitates a more harmonious approach.</p> <p>The two periods of implementation in this second NDC are:</p> <p>1 January 2026 to 31 December 2030</p> <p>1 January 2031 to 31 December 2035.</p> <p>We note that the earlier period of implementation is the same as in the 2021 update of our first NDC, whereas the second period of implementation is new.</p>
(b) Whether it is a single-year or multi-year target, as applicable.	<p>South Africa's mitigation targets as stated in this NDC and our first updated NDC are single-year targets for the years 2025, 2030 and 2035, expressed as a GHG emissions range.</p>
3. Scope and coverage:	
(a) General description of the target	<p>The targets are economy-wide emission reduction target ranges, in absolute units of Mt CO<sub>2</sub>-eq, with quantities specified in Table 2, and fully described in section 5. c. 5. c.</p> <p>Note that "GHG emissions" are defined as total net GHG emissions as specified in the national inventory report for 2030, including all sectors, including LULUCF and excluding emissions from natural disturbances in the land sector.</p>
(b) Sectors, gases, categories and pools covered by the nationally determined contribution, including, as applicable, consistent with Intergovernmental Panel on Climate Change (IPCC) guidelines.	<p>Mitigation targets contained in South Africa's second NDC cover all gases, sectors and sources which are estimated in South Africa's most recent GHG inventory communicated as part of South Africa's most recent Biennial Transparency Report. South Africa's NDC targets will be accounted for using an inventory-based approach, excluding GHG emissions arising from natural disturbances.</p>
(c) How the Party has taken into consideration paragraph 31(c) and (d) of decision 1/CP.21;	<p>As above.</p>

Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
(d) Mitigation co-benefits resulting from Parties' adaptation actions and/or economic diversification plans, including description of specific projects, measures and initiatives of Parties' adaptation actions and/or economic diversification plans.	The mitigation targets in South Africa's NDC are not defined in terms of mitigation co-benefits of adaptation actions and/or economic diversification plans.
4. Planning processes:	
(a) Information on the planning processes that the Party undertook to prepare its nationally determined contribution and, if available, on the Party's implementation plans, including, as appropriate:	
(i) Domestic institutional arrangements, public participation and engagement with local communities and indigenous peoples, in a gender-responsive manner, if available, information provided on a Party's implementation plans	<p><b>Institutional arrangements and planning process for the NDC:</b> The Department of Forestry, Fisheries and Environment (DFFE) the national focal point for climate change in South Africa, led the planning process in preparing South Africa's second NDC. The process for SA's second NDC had five parts: technical analyses (UCT 2025a, UCT 2025b, UCT 2025c), consultation within government, consultation with broader stakeholders, provincial public stakeholder workshops, and finalisation in government and Cabinet.</p> <p><b>Public consultation and participation:</b> DFFE conducted stakeholder consultations nationally and in all nine provinces, accessible to local government, undertaken in a gender-responsive manner.</p>
(ii) Contextual matters, including, inter alia, as appropriate: <ul style="list-style-type: none"> <li>a. National circumstances, such as geography, climate, economy, sustainable development and poverty eradication;</li> <li>b. Best practices and experience related to the preparation of the nationally determined contribution;</li> <li>c. Other contextual aspirations and priorities acknowledged when joining the Paris Agreement;</li> </ul>	See section 2 Context: National priorities and circumstances
(b) Specific information applicable to Parties, including regional economic integration organizations and their member States, that have reached an	Not applicable.

Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
<p>agreement to act jointly under Article 4, paragraph 2, of the Paris Agreement, including the Parties that agreed to act jointly and the terms of the agreement, in accordance with Article 4, paragraphs 16–18, of the Paris Agreement;</p>	
<p>(c) How the Party's preparation of its nationally determined contribution has been informed by the outcomes of the global stocktake, in accordance with Article 4, paragraph 9, of the Paris Agreement;</p>	<p>South Africa preparation of our second NDC have been informed by the outcome of the first global stocktake (GST1), in several ways. Technical analysis informing preparation of this NDC included detailed consideration of the outcome of GST, across the broad scope of mitigation, adaptation, loss and damage, response measures, and means of implementation and support (finance, technology and capacity building), see UCT (2025c).</p> <p>Furthermore, we approached the second NDC in the spirit of the GST, emphasising ambition and equity, informed by best available science. The research teams identified specific implications of GST1, including its technical findings and particularly political outcome in decision 1/CMA.5, for this second NDC. These included, but are not limited to</p> <ul style="list-style-type: none"> <li>i. This second NDC makes multiple references to 1.5 °C and its relevance to mitigation, adaptation and finance; see further details in row 7(b) of ICTU;</li> <li>ii. In maintaining and updating mitigation target ranges as detailed in section 5. c. . We took into account the mitigation section of decision 1/CMA.5, including but not limited to the just energy transition package; considered fair shares and a just transition to net zero CO<sub>2</sub> emissions by 2050 (see also 5. d. and 7. ), and explicitly frame our contribution to the long-term goal on mitigation;</li> <li>iii. In this second NDC, we highlight the importance of economic diversification, including green industrialisation, identified in GST1 as key to managing the impacts of response measures;</li> <li>iv. In revising our national adaptation goals (3. c. ), we took into account the adaptation section of the GST outcome and decision 2/CMA.5 on the GGA; indicating how they relate to thematic goals agreed globally, and consider our goals a fair and ambitious contribution to the GGA;</li> </ul>

Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
	<p>v. On institutional arrangements, this second NDC includes reference to an inventory of impacts, which we consider an important outcome of GST1, which can enhance information to inform action on adaptation and loss &amp; damage;</p> <p>vi. We have considered just adaptation, important in our domestic preparations and informed by discussion in GST1;</p> <p>vii. On finance, this second NDC makes clear that the extent to which SA can achieve its full ambition is related to the extent to which support is mobilised and provided, an important outcome on finance of GST1; and we have established funds for climate action.</p>
(d) Each Party with a nationally determined contribution under Article 4 of the Paris Agreement that consists of adaptation action and/or economic diversification plans resulting in mitigation co-benefits consistent with Article 4, paragraph 7, of the Paris Agreement to submit information on:	Not applicable.
(i) How the economic and social consequences of response measures have been considered in developing the nationally determined contribution;	Not applicable.
(ii) Specific projects, measures and activities to be implemented to contribute to mitigation co-benefits, including information on adaptation plans that also yield mitigation co-benefits, which may cover, but are not limited to, key sectors, such as energy, resources, water resources, coastal resources, human settlements and urban planning, agriculture and forestry; and economic diversification actions, which may cover, but are not limited to, sectors such as manufacturing and industry, energy and mining, transport and communication, construction, tourism, real estate, agriculture and fisheries.	Not applicable.
5. Assumptions and methodological approaches, including those for estimating and accounting for anthropogenic greenhouse gas emissions and, as appropriate, removals:	



Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
<p>(a) Assumptions and methodological approaches used for accounting for anthropogenic greenhouse gas emissions and removals corresponding to the Party's nationally determined contribution, consistent with decision 1/CP.21, paragraph 31, and accounting guidance adopted by the CMA;</p>	<p>South Africa will use a GHG inventory-based approach in accounting for the mitigation component of our NDC, for the periods of implementation from 2026 to 2030 and 2031 to 2035, including mitigation targets in our NDC as specified above. In accounting for anthropogenic emissions and removals corresponding to our NDC, we have promoted environmental integrity, transparency, accuracy, completeness, comparability and consistency, and ensure the avoidance of double counting; and provide further information in this regard here. South Africa's national inventory reports are prepared in accordance with decision 18/CMA.1, and any subsequent applicable CMA decisions.</p> <p>Progress and achievement will be accounted for by comparing the target ranges, as specified above for the periods of implementation 2026-2030 and 2031-2035, with the annual emissions contained in South Africa's GHG inventory for all sectors, excluding emissions arising from natural disturbances in the land sector. Emissions arising from natural disturbances are reported in an annex to South Africa's national inventory document.</p> <p>South Africa intends to perform corresponding adjustments in accounting for its NDC targets in accordance with relevant decisions taken by the CMA in relation to Article 6 and the structured summary for implementation and achievement of its NDC. We note that in BTR1 (Dec 2024), we reported that South Africa had not entered into any cooperative approaches that involve the use of ITMOs, or authorised any issuance of 6.4 units; should this change, we will report accordingly.</p> <p>South Africa will account for its second NDC in accordance with the guidance contained in Annex II to decision 4/CMA.1.</p>
<p>(b) Assumptions and methodological approaches used for accounting for the implementation of policies and measures or strategies in the nationally determined contribution;</p>	<p>Not applicable to South Africa's NDC. South Africa's NDC target is expressed in GHG emissions terms rather than in terms of policy goals.</p>
<p>(c) If applicable, information on how the Party will take into account existing methods and guidance under the Convention to account for anthropogenic emissions and removals, in accordance with Article 4, paragraph 14, of the Paris Agreement, as appropriate;</p>	<p>Information on accounting is contained in 5(a) above.</p>

Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
(d) IPCC methodologies and metrics used for estimating anthropogenic greenhouse gas emissions and removals;	<p><b>IPCC methodologies:</b> 2006 IPCC Guidelines for National Greenhouse Gas Inventories;</p> <p><b>Metrics:</b> South Africa currently uses 100-year Global Warming Potential (GWP) values from the IPCC's 5<sup>th</sup> Assessment Report.</p>
(e) Sector-, category- or activity-specific assumptions, methodologies and approaches consistent with IPCC guidance, as appropriate, including, as applicable:	
(i) Approach to addressing emissions and subsequent removals from natural disturbances on managed lands:	In South Africa's ninth NIR, South Africa's entire land area is considered "managed" for purposes of estimating emissions and removals from the land sector.
(ii) Approach used to account for emissions and removals from harvested wood products;	South Africa uses a production approach.
(iii) Approach used to address the effects of age-class structure in forests;	Not applicable – South Africa does not use this approach.
(f) Other assumptions and methodological approaches used for understanding the nationally determined contribution and, if applicable, estimating corresponding emissions and removals, including:	
(i) How the reference indicators, baseline(s) and/or reference level(s), including, where applicable, sector-, category- or activity-specific reference levels, are constructed, including, for example, key parameters, assumptions, definitions, methodologies, data sources and models used;	Not applicable – South Africa does not have a reference indicator.
(ii) For Parties with nationally determined contributions that contain non-greenhouse-gas components, information on assumptions and methodological approaches used in relation to those components, as applicable;	Not applicable – South Africa does not include non-GHG components in its NDC mitigation target.
(iii) For climate forcers included in nationally determined contributions not covered by IPCC guidelines, information on how the climate forcers are estimated;	Not applicable – South Africa does not include black carbon, since it is not a substance controlled by the UNFCCC or Paris Agreement.



Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
(iv) Further technical information, as necessary;	Not applicable.
(g) The intention to use voluntary cooperation under Article 6 of the Paris Agreement, if applicable.	<p>South Africa expects most mitigation to result from domestic measures. Any international transfers of mitigation outcomes (ITMOs) will promote sustainable development and ensure environmental integrity and transparency, including in governance, and apply robust accounting to ensure, inter alia, the avoidance of double counting. To these ends, we will apply the standards and methodologies of the Paris Agreement Crediting Mechanism (PACM) as well as guidance on cooperative approaches. These will further be elaborated in domestic guiding framework to elaborate on host country responsibilities and other domestic requirements. We will account for any ITMOs transferred to other Parties as specified in decisions of the CMA. South Africa will report corresponding adjustments as part of the structured summary in our biennial transparency reports. South Africa will further consider 6.8 non market approaches in further implementing climate action that does not lead to generation of ITMOs.</p>
6. How the Party considers that its nationally determined contribution is fair and ambitious in the light of its national circumstances:	
(a) How the Party considers that its nationally determined contribution is fair and ambitious in the light of its national circumstances;	<p>The second NDC has outlined how SA considers its contribution to be fair and ambitious, across climate action and support. Here, information to facilitate clarity, transparency and understanding of fairness and ambition is provided, which should be read together with the sections on adaptation, mitigation and support, and integrated holistically in the section on Equity and Science, below</p> <p>South Africa bears a disproportionate burden of adaptation to the adverse impacts of climate change (UCT 2025a). It is an injustice that with a relatively small share of historical cumulative emissions, our economy has been disproportionately negatively affected by climate change. Poor communities have low capacity to adapt, are most vulnerable to climate hazards, and are already suffering losses and damages. South Africa is actively developing both the idea and practices of just adaptation, within a framework of a just transition. Just adaptation must ensure distributional and procedural equity, be guided by principles and operationalised in implementing adaptation actions. The unequal burdens are reflected in scientific nationwide vulnerability assessments, which show that inadequate access to water, sanitation, food security, and safe</p>

Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
	<p>housing significantly heighten risks for the most marginalised, particularly in rural and informal urban areas. Procedural equity means ensuring that marginalised groups are included in defining adaptation agendas. Providing long-term and predictable finance, and direct access to funding, is important for distributional equity. This further means investing in capability of local communities, and institutions supporting them. Just adaptation will inform how South Africa is approaching the increasing level of ambition in this second NDC. More ambitious adaptation targets will be achieved, if adaptation is just; and greater ambition in adaptation actions in turn means less injustice resulting from climate impacts. Nevertheless, we have invested in adaptation, and thus made a fair contribution to the global effort (see section 3. c. ). GST1 noted with concerns that that adaptation finance gap is widening, and that current levels of support are insufficient to meet needs of developing countries. South Africa considers it essential that this outcome of the GST is implemented, as a matter of equity and ambition, that finance for adaptation is rapidly scaled up by developed countries, and access to all funding simplified. South Africa expects its fair share of international climate finance to implement adaptation and to address loss and damage.</p> <p>South Africa is strongly of the view that equity should be a primary consideration when considering countries' fair shares of the total global carbon budgets (GCB), both the four-fifths of GCB spent by historical emissions and small remaining future GCBs. Analysis of relative fair shares for South Africa in relation to mitigation was reviewed in the process of preparing the second NDC (UCT 2025c). The analysis reviewed relevant literature and drew on three publicly available tools.</p> <p>Each of the three equity-based frameworks - the Climate Equity Reference Calculator (CERC), Climate Equity Monitor (CEM) and Climate Action Tracker (CAT), apply distinct methodologies and assumptions to determine what might constitute a fair contribution by South Africa to limiting global warming to 1.5°C or 2°C. As in earlier analysis for NDCs, the CERC approach aligns well with the equity principles South Africa values and priorities – taking into account responsibility and capability, as well as the right to promote sustainable development and the need to prioritise development for those living in poverty. Taken together, and noting limitations, these tools were</p>

Provisions and sub-provisions of Annex 1 to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
	<p>used as a guide to South Africa's "fair share" of global emissions of the long-term temperature limits contained in Article 2.1(a) of the Paris Agreement (UCT 2025c).</p> <p>It should be noted that these relative fair shares for South Africa imply corresponding fair shares for other countries (UCT 2025c).</p> <p>South Africa expect that adequate international support will be provided for both adaptation and mitigation, as a matter of fairness, as provided for in the Paris Agreement. We also assumed the South Africa will receive a fair share of international climate finance for mitigation, and adaptation. We also expect a fair share of funding address loss and damage, through the Fund for responding to Loss &amp; Damage.</p>
(b) Fairness considerations, including reflecting on equity;	As above, in 6(a).
<p>(c) How the Party has addressed Article 4, paragraph 3, of the Paris Agreement; (Article 4.3 states that "Each Party's successive nationally determined contribution will represent a progression beyond the Party's then current nationally determined contribution and reflect its highest possible ambition, reflecting its common but differentiated responsibilities and respective capabilities, in the light of different national circumstances.")</p>	<p>South Africa's updated mitigation targets as contained in Table 2 represent a significant progression.</p> <p>The reduction of the mitigation target range for 2035, compared to 2030, are a 10% reduction at the upper end, and a 9% reduction at the lower end of the range. As noted in the 2021 update, the upper end of the target for 2030 was reduced by 30%.</p> <p>The mitigation target range for 2026-2030 was communicated in the 2021 updated NDC with a significant increase in ambition, which is maintained in this second NDC. The mitigation target range for 2031-2035 is communicated for the first time in this second NDC, showing progression in mitigation ambition. When preparing and communicating its third NDC in 2030, SA will consider whether the level of ambition for 2031-2035 can be increased further, in accordance with relevant decisions and provisions of the Paris Agreement, and in response to changes in the GHG inventory, its national circumstances, and in response to the latest science and the 2027-2028 global stocktake, technology developments, and the availability of international support.</p>
(d) How the Party has addressed Article 4, paragraph 4, of the Paris Agreement;	<p>South Africa had already moved in its first NDC to economy-wide emission reduction or limitation targets, and is now showing progression by continuing reductions after peaking of our national</p>

Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
(Article 4.4 states that "Developed country Parties should continue taking the lead by undertaking economy-wide absolute emission reduction targets. Developing country Parties should continue enhancing their mitigation efforts, and are encouraged to move over time towards economy-wide emission reduction or limitation targets in the light of different national circumstances.")	emissions. South Africa continues to enhance our mitigation efforts, with the implementation of policies, programmes and plans with significant mitigation outcomes, including our Integrated Resource Plan for electricity, Green Transport Strategy, draft post-2015 National Energy Efficiency Strategy, Carbon Tax, and the Just Energy Transition-Investment and Implementation Plans. South Africa takes an all-of-economy, all-of-society approach to climate action, including achieving the necessary pace of mitigation, while managing disruptive effects, to ensure systems transformations proceed in a just, orderly and equitable manner.
(e) How the Party has addressed Article 4, paragraph 6, of the Paris Agreement. (Article 4.6 states that "6. The least developed countries and small island developing States may prepare and communicate strategies, plans and actions for low greenhouse gas emissions development reflecting their special circumstances.")	Not applicable, since South Africa is neither a least developed country, nor a small island developing state.
7. How the nationally determined contribution contributes towards achieving the objective of the Convention as set out in its Article 2:	
(a) How the nationally determined contribution contributes towards achieving the objective of the Convention as set out in its Article 2; (Article 2 of the UNFCCC states that "The ultimate objective of this Convention and any related legal instruments that the Conference of the Parties may adopt is to achieve, in accordance with the relevant provisions of the Convention, stabilization of greenhouse gas concentrations in the atmosphere at a level that would prevent dangerous anthropogenic interference with the climate system. Such a level should be achieved within a time frame sufficient to allow ecosystems to adapt naturally to climate change, to ensure that food production is not threatened and to enable economic development to proceed in a sustainable manner.")	South Africa reaffirms its commitment to the objective of the Convention, as indicated in our first NDC. Nationally determined targets and goals have been chosen to reflect South Africa's fair contribution towards the long-term temperature goal of the Paris Agreement, noting its connection to the long-term goal on mitigation and the global goal on adaptation, as well as the importance that climate finance be commensurate with the long-term temperature goal, and with the goal of limiting global warming to 1.5 °C in particular.  In the current context of crises, including climate and geopolitical crises, we highlight the importance of global solidarity, and of a strong multilateral system based on international law. The Convention's Article 2 remains salient, including the imperative to "ensure that food production is not threatened and to enable economic development to proceed in a sustainable manner"

Provisions and sub-provisions of Annex I to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
<p>(b) How the nationally determined contribution contributes towards Article 2, paragraph 1(a), and Article 4, paragraph 1, of the Paris Agreement.</p>	<p>We also reaffirm that the achievement of the objective of the Convention must be guided by its principles, as stated in the preamble of the Paris Agreement. Parties to the Paris Agreement are Parties to the Convention.</p> <p>Article 2.1 (a) of the Paris Agreement outlines the global temperature goal of limiting increase to "well below 2°C", and "pursuing efforts to limit the temperature increase to 1.5 °C" above pre-industrial levels. In this second NDC, South Africa's contributes to the global temperature goal, in several respects. There has been increasing emphasis on keeping 1.5 °C alive, and South Africa supports this goal, while mindful that temperatures are exceeding this limit temporarily already. In preparing our second NDC, we have taken account of the best available science, as assessed in the IPCC's Sixth Assessment Reports. We also considered the first GST, and the technical finding of the technical dialogue that "there is a rapidly narrowing window to raise ambition and implement existing commitments in order to limit warming to 1.5 °C above pre-industrial levels". Higher ambition is needed, yet equity means that global pathways to not apply uniformly to each country. We took into account the mitigation section of the GST outcome, decision 1/CMA.5 paragraphs 18-42 – which points to the fact that four-fifths of the total global carbon budget has already been spent, the small remaining GCB, the median emission reductions needed by 2030, 2035 and 2050, among several other dimensions. We also took note of findings that every increment of global warming matters, that increased climate impacts mean a greater need for adaptation and associated costs, and that increasing warming levels mean more losses and damages. The implications of Article 2.1 (a) thus apply to all aspects of climate action and support. Our second NDC correspondingly makes a fair and ambitious contribution to adaptation, addressing loss &amp; damage and mitigation, provides information on investments we are making and finance needed.</p> <p>South Africa was encouraged by increasingly shared understanding of equity that emerged during GST1, relating multiple dimensions of justice to the broad scope of climate action and support. Yet, we note that there is still no internationally-agreed equity reference framework. In preparing this second NDC, we take into account historical emissions and responsibility for the future. Within the context of the Paris Agreement's principles of equity and common but</p>



Provisions and sub-provisions of Annex 1 to decision 4/CMA.1	Information provided in respect of South Africa's Second NDC
	<p>differentiated responsibility, in the light of different national circumstances, we communicate this second NDC to reflect our highest possible ambition.</p> <p>This second NDC is South Africa's fair and ambitious contribution to the long-term global goal for mitigation (LTG-M), set out in Article 4.1 of the Paris Agreement. The LTG-M refers to global peaking as soon as possible, recognising peaking will take longer in developing countries, and the need for rapid reductions for those who have peaked. The LTG-M seeks to achieve "a balance between anthropogenic emissions by sources and removals by sinks of greenhouse gases", commonly referred to as 'net zero emissions'. The LTG-M is clear that it must be achieved "on the basis of equity, and in the context of sustainable development and efforts to eradicate poverty." Our national GHG emissions including LULUCF reached their highest value of 529 Mt CO<sub>2</sub>-eq in 2008 as reported in the 9<sup>th</sup> NIR over the period 2000-2022, and were 435 Mt CO<sub>2</sub>-eq in 2022. Based on modelling for this NDC (UCT 2025b), no credible scenario was found in which GHG emission will exceed 435 Mt CO<sub>2</sub>-eq again. We have started implementing a just transition to net zero CO<sub>2</sub> emission by 2050. Reducing emissions after peaking, while ensuring sustainable development, is a fair and ambitious contribution to the LTG-M. We urge all Parties to treat with the utmost seriousness the considerations of equity, sustainable development and poverty eradication.</p> <p>In our long-term Low Emissions Development Strategy (LEDS), communicated voluntarily under Article 4.19, South Africa committed "to ultimately moving towards a goal of <b>net zero carbon emissions by 2050</b>, which will require various interventions to reduce greenhouse gas emissions. This goal, how it will be achieved to ensure a <b>just transition</b>, and how the economic advantages of the transition will be maximised, will be formally communicated in future iterations of this strategy." (RSA 2020b: emphasis added). The Presidential Climate Commission has developed a framework for a just transition in South Africa, which includes in its definition of a just transition for our context: "A just transition aims to achieve a quality life for all South Africans, in the context of increasing the ability to adapt to the adverse impacts of climate, fostering climate resilience, and <b>reaching net-zero carbon emissions by 2050</b>, in line with best available science. ..." (PCC, 2022; emphasis added). It is by leaving no-one behind that South Africa collectively will contribute to achieving the goals of the Paris Agreement.</p>

**b. Ways to track progress of adaptation and reporting on L&D**

South Africa will continue to enhance Monitoring and Evaluation (M&E) systems to track progress towards national adaptation goals and to learn from and adjust based on what is and is not delivering on adaptation outcomes. Our first NDC had referred to monitoring for water and health. M&E systems, including indicators, will be developed for each of the goals in this second NDC.

Indicative ways of tracking progress are included in Table 1. These ways of tracking will enable deepening understanding of the extent to which interventions are being implemented and each of the 7 goals being realised. South Africa will develop indicators that quantify the metrics in Table 1. This will enable transparent domestic and international reporting, including in regular Adaptation Synthesis Reports, and continuous improvement over time.

Institutional arrangements will be crucial for effective M&E. The Multi-Hazard Early Warning System will be strengthened by an inventory of impacts, involving local communities in data collection. The South African Weather Service will continue to update climate data on the Climate Information Portal (CIP) and National Hazardous Events Database (NHED). Additionally, the Tracking & Evaluation (T&E) Portal, a sub-module of the National Climate Change Information System (NCCIS), will monitor South Africa's progress towards NDC goals, via provincial and municipal inputs.

We will continuously improve M&E processes, and highlight the importance of ongoing support and capacity-building. This includes the provision of support for building transparency-related capacity of developing country Parties on a continuous basis. By involving diverse stakeholders, including government agencies, research institutions, and local communities. Our approach will ensure that our actions to adapt to climate impacts and respond to loss and damage are adequate and effective, inclusive, and responsive to increasing global warming levels.

South Africa will enhance its reporting on loss and damage (L&D) associated with climate change impacts. This will involve comprehensive data collection and analysis to assess the extent of damage to infrastructure, property, and livelihoods caused by slow onset and extreme weather events, and reporting on economic and non-economic losses and damages. South Africa's National Disaster Management Centre will play a central role in this enhanced reporting system.

**c. Information to facilitate tracking of support received**

Reporting on support received is overseen by the Department of Forestry, Fisheries and the Environment (DFFE). It does so in collaboration with other government departments, such as National Treasury in relation to finance, as well others in relation to technology and capacity-building, as well as stakeholders.

In relation to finance, South Africa will continue to collect and document information to facilitate tracking of international climate finance received. We will identify and document finance for mitigation, adaptation and loss & damage, from sources including multilateral and bilateral support. Financial support will be classified as multilateral if it involves multiple countries or entities. The types of financial instruments used will include grants, concessional loans, and equity.

As reported in South Africa's first Biennial Transparency Report (BTR1) in 2024, the country received a total of USD 827.69 million in international financial support during the period 2021–2022, averaging USD 413.85 million per year. Of this amount, approximately 80% was provided in the form of loans, 6% as grant provided for mitigation, with a very small proportion (less than 1%) allocated exclusively to adaptation. BTR1 also reported the financial support needed to implement the country's NDC. An estimated USD 344 billion will be required by 2030 to support both the full implementation of the just energy transition and to bridge the gap between the country's adaptation needs and costs. BTR1 also reported the financial support needed to implement the country's 2021 updated NDC, with higher costs for this second NDC. An estimated USD 344 billion will be

required by 2030 to support both the full implementation of the just energy transition, and to bridge the gap between the country's adaptation needs and costs.

## 9. Uncertainties

In the 2021 update for our first NDC, significant uncertainties were identified in relation to COVID-19, including on debt. The context of this second NDC is one of high uncertainty in geopolitics. Geopolitical uncertainties in 2025 include geoeconomic conflicts over tariffs and trade, military conflicts in several countries with risks of escalation, increasing fragmentation within many societies and between countries, risking a return to regional spheres of influence, and more. These uncertainties make triple challenge of reducing unemployment, poverty and inequality even more daunting.

Recommitment by all countries to the multilateral rules-based approach to climate action and support is essential to address uncertainties. The extent to which adaptation measures will need to be implemented will depend on what is achieved globally in terms of mitigation. Furthermore, adaptation actions may be limited, including by inadequate provision of international climate finance. Lack of ambition in mitigation, adaptation and finance is very likely to increase losses and damages. Bridging ambition gaps across mitigation, adaptation and finance is not just necessary to reduce uncertainty—it is imperative to secure our common future.

While the South African greenhouse gas inventory system has consistently improved in its coverage and in the detail and quality of estimation of greenhouse gases, considerable uncertainties remain in estimating GHGs, especially in the land sector. As South Africa improves its systems for estimating land sector emissions, recalculations may result in significant changes in previously reported GHG estimates. In addition, more accurate land sector reporting based on more frequent and granular data will most likely lead to higher variability in GHG emissions from natural disturbances from wildfires, which will also become more common in South Africa as a result of climate change.









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