

Second Nationally Determined Contribution (NDC)

Government of Nepal Kathmandu

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1. Introduction

Nepal is among the most vulnerable countries to climate change. It is at high-risk due to the country's fragile topography, the climate-sensitive livelihoods of the people and their limited adaptive capacity. Nepal is committed to acting on climate change in line with the Paris Agreement, despite the country's negligible emissions. It is because efforts to limit global average temperature rise to 1.5°C would result in significantly lower risks for Nepal when compared to 2°C or higher. These risks are in addition to the existing impacts and vulnerabilities of climate change in the country. Nepal, therefore, calls on all Parties to increase ambition and move collectively onto emission reduction pathways consistent with the Paris Agreement's 1.5°C warming limit.

The Government of Nepal hereby presents its enhanced Nationally Determined Contribution (NDC) under the Paris Agreement for the period 2021-2030, following Articles 4.2 and 4.11 of the Paris Agreement, and Decision 1/CP.21 paragraph 23 and 24, and other relevant provisions of the Paris Agreement. The NDC takes into account the principle of common but differentiated responsibilities and respective capabilities, in light of national circumstances.

2. Nepal's Long-Term Low Greenhouse Gas Emission Development Strategy

Nepal envisions achieving socio-economic prosperity by building a climate-resilient society. To this end, the country has developed its policy and institutional framework. In accordance with Article 4, paragraph 19 of the Paris Agreement, Nepal is formulating a long-term low greenhouse gas emission development strategy by 2021. The strategy aims to achieve net-zero greenhouse gas emission by 2050.

3. Mitigation Component of Nationally Determined Contribution (NDC)

Quantified targets of NDC									
Туре	Activity-based	targets	and	policy	targets	in	key	sectors,	including
	emissions redu	iction in a	some	sectors	6				

The targets in this section, unless otherwise specified, are conditional
Energy; Industrial Processes and Product Use (IPPU); Agriculture, Forestry and Other Land Use (AFOLU); and Waste
From 1 st January 2021- 31 st December 2030
Single year target – 2030, including updates on 2025 targets
 (Energy generation) By 2030, expand clean energy generation from approximately 1,400 MW to 15,000 MW, of which 5-10 % will be generated from mini and micro-hydro power, solar, wind and bio-energy. Of this, 5,000 MW is an unconditional target. The remainder is dependent upon the provision of funding by the international community. By 2030, ensure 15% of the total energy demand is supplied from clean energy sources.
 (Transport) Sales of electric vehicles (e-vehicles) in 2025 will be 25% of all private passenger vehicles sales, including two-wheelers and 20% of all four-wheeler public passenger vehicle sales (this public passenger target does not take into account electric-rickshaws and electric-tempos) in 2025. Due to this e-vehicle sales target, fossil fuel energy demand for the transportation sector will decrease from approximately 40 million GJ in the Business As Usual (BAU) scenario in 2025 to 36 million GJ. This would be around a 9% decrease in fossil fuel dependency. This target will reduce emissions from a projected BAU of 2,988 Gg CO₂ eq. in 2025 to 2,734 Gg CO₂ eq., which is around 8% decrease in emissions.
 By 2030, increase sales of e-vehicles to cover 90% of all private passenger vehicle sales, including two-wheelers and 60% of all four-wheeler public passenger vehicle sales (the public passenger target does not take into account electric-rickshaws and electric-tempos). As a consequence, energy demand for fossil fuels will decrease from approximately 48 million GJ in the 2030 BAU scenario to 34.5 million GJ, which is around 28% decrease in fossil fuel dependency. This target will reduce emissions from a projected BAU of 3,640 Gg CO₂ eq. in 2030 to 2,619 Gg CO₂ eq., which is around 28% decrease in emissions. By 2030, develop 200 km of the electric rail network to support public commuting and mass transportation of goods.

	 (Residential cooking and biogas) By 2030, ensure 25% of households use electric stoves as their primary mode of cooking.
	 By 2025, install 500,000 improved cookstoves, specifically in rural areas.
	 By 2025, install an additional 200,000 household biogas plants and 500 large scale biogas plants (institutional/industrial/ municipal/community).
	These three combined targets can reduce emissions from approximately 1,999 Gg CO ₂ eq. in BAU in 2025 to approximately 1,774 Gg CO ₂ eq. This is around 11% reduction in emissions from the cooking sector. For 2030, these three targets can reduce emissions from approximately 2,064 Gg CO ₂ eq. from BAU to 1,599 Gg CO ₂ eq., which is around 23% reduction in emissions.
AFOLU	 (Forestry) By 2030, maintain 45% of the total area of the country under forest cover (including other wooded land limited to less than 4%). By 2030, manage 50% of <i>Tarai</i> and Inner <i>Tarai</i> forests and 25% of middle hills and mountain forests sustainably, including through the use of funding from REDD+ initiatives.
Waste	 By 2025, 380 million litres/day of wastewater will be treated before being discharged, and 60,000 cubic meters/year of faecal sludge will be managed. These two activities will reduce around 258 Gg CO₂ eq. compared to BAU.

Detailed Description of Mitigation Component of NDC ¹				
1. Quantified information on the reference point, including, as appropriate, a				
base year				
a Reference year (s), base year(s), reference period(s) or other starting point(s)	Nepal's NDC comprises of sectoral activity-based targets. As per the Greenhouse Gas Inventory, prepared for the Third National Communication (TNC), the net GHG emissions of 31,998.91 Gg CO ₂ eq. was estimated for Nepal in the base year 2011. The direct GHG emission for the following sectors are: Energy: 14713.36 Gg CO ₂ eq. IPPU: 379.80 Gg CO ₂ eq. AFOLU: 15982.16 Gg CO ₂ eq. Waste: 923.59 Gg CO ₂ eq.			
b. Quantifiable information	Energy			
on the reference	 Current total installed capacity for energy 			

 $^{^{\}rm 1}$ Information to facilitate Clarity, Transparency and Understanding (ICTU) Guidelines

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	 generation is approximately 1400MW, mainly from hydropower. Nepal categorizes mini and micro-hydropower (i.e. hydropower of less than 1MW capacity) and solar and wind as renewable energy. Current energy demand satisfied by clean energy sources is well below 15%. The current share of electric vehicles is approximately 1%. The current rail network –a reference not available Currently, around 5% of households use electric induction stoves, either as their primary or secondary mode of cooking.
	 Industry Currently, emission standards are not in place for emissions in the brick and cement industries. Waste Currently, 2.1 % of wastewater and less than 1% of the faecal sludge is treated.
	AFOLU
	 (Forestry) Nepal's 2016 NDC sets a target to maintain 40% of the total area of the country under forest cover. Current forest cover is approximately 44.74% of which 4.38% is another wooded land (OWL).
	 (Agriculture) The current soil organic matter content of agricultural land is 2%. The number of the organic fertilizer production plant is 23. The number of improved cattle shed is 100,000.
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 1(b) above is not applicable,	 The targets in this section, unless specified, are all conditional upon international support and will be implemented by 2030. Energy By 2030, increase the reliable supply of clean energy, ensuring access to all. Increase the quantity (kWh), quality, reliability, and affordability of electricity access from

Parties to provide other	renewable sources.
relevant information	 Strengthen transmission and distribution links to support upscaling of e-cooking, e-heating, e- transport and charging stations.
	 Develop enabling environment to provide power to small and mid-size enterprises (SMEs) using distributed renewable energy generation sources.
	 Promote public electric mobility through policy incentives, including subsidy policies and other financial mechanisms.
	• By 2025, ensure at least three provinces operate electric public transport, three provinces establish vehicle fitness test centres to monitor and regulate vehicular emissions, and all metropolitan cities have roads paved with bicycle and pedestrian lanes.
	Agriculture, Forestry and Other Land use (AFOLU)
	 (Forestry) Forests under community-based management will comprise at least 60% of Nepal's forest area; management committees will have 50% women representation and proportional representation of Dalits and Indigenous People in key posts.
	 By 2030, institutional mechanisms and structures in place and adequate provision of budget to ensure social and environmental safeguards including Free, Prior and Informed Consent (FPIC); forest tenure and access to finance and technology for Local Communities, women and Indigenous People.
	• Ensure fair and equitable benefits (carbon and non-carbon) from sustainable forest management, watershed management, and biodiversity-conservation among Local Communities, women and Indigenous People.
	 By 2030, upgrade watershed health and vitality in at least 20 districts to a higher condition category.
	 By 2030, create an inventory of wetlands in Nepal and sustainably manage vulnerable wetlands.
	 By 2025, enhance the sink capacity of the land- use sector by instituting the Forest Development

Fund (FDF) for compensation of plantations and forest restoration.
 Increase growing stock including Mean Annual Increment in <i>Tarai</i>, Hills and Mountains.
 Afforest/reforest viable public and private lands, including agroforestry.
 Restore and manage degraded forest land, including in the <i>Chure</i> region.
 (Agriculture) By 2030, soil organic matter content of agriculture land will reach to 3.95%. By 2030, mulberry and fruit orchard areas will be expanded to 6,000 ha.
• By 2030, the number of additional improved cattle sheds will reach to 5,00,000 for quality farm-yard manure production and use.
 By 2030, the number of organic fertilizer production plants in the country will reach 100.
 Integrate climate change in the upcoming revised Agriculture Policy.
 By 2025, update the Rangeland Policy and develop plans for the sustainable management of rangelands.
 By 2030, establish 200 climate-smart villages and 500 climate-smart farms.
 Promote intercropping, agroforestry, conservation tillage, and livestock and agricultural waste management.
• Ensure increased access of climate-smart agricultural technologies to women, Indigenous People, smallholder farmers and marginalized groups.
 Protect, promote and support climate-resilient indigenous seeds/crop varieties (through community seed banks and national gene banks.
 Industry By 2030, adopt low emission technologies in brick and cement industries to reduce coal consumption and air pollution, including through the development and/or enactment of emission

standards.
 By 2025, formulate guidelines and establish mechanisms to monitor emissions from large industries.
Waste
 By 2030, create an enabling environment for both public and private sector to treat industrial and municipal waste, including faecal sludge.
 By 2030, adopt and implement waste segregation, recycling and waste-to-energy programs in at least 100 municipalities.
 By 2030, the burning of healthcare waste in 1,400 healthcare facilities will be prohibited by proper management of healthcare waste through the application of non-burn technologies.
 Promote the 3Rs (Reduce, Reuse, Recycle) approach to waste management, along with source segregation and management of degradable and non-degradable waste.
 Focus on co-production of energy and organic fertilizer from solid waste, wastewater and faecal sludge.
Other Relevant Targets
(Tourism)
 By 2025, formulate and implement nature-based tourism plans in at least five main tourist destinations.
 By 2030, ensure at least five tourist destinations are carbon neutral.
 By 2030, including measures in policies to offset the carbon footprint of emissions resulting from tourism transport.
(Urban Settlements)
 Adopt national building codes and prepare Integrated Urban Development Plans (IUDPs) emphasizing low carbon and climate-resilient urban settlements in all municipalities.
 By 2025, revise the urban environment management guidelines to incorporate activities

	related to promoting low carbon and climate- resilient urban settlements.
	 Gender Equality and Social Inclusion (GESI) By 2030, develop an Action Plan for integrating GESI in achieving NDC targets. Develop specific programs with dedicated resources (human and financial) to ensure full, equal and meaningful participation of women, children, youth, Indigenous Peoples and marginalized groups in climate change-related policy development; and during the planning, monitoring and implementation processes at local, provincial and national levels.
	 Promote the leadership, participation and negotiation capacity of women, Indigenous Peoples and youth in climate change forums.
	 Ensure gender-disaggregated data when reporting on progress and achievements.
d. Target relative to the reference indicator, expressed numerically, for example in percentage or amount of reduction	See NDC and section 1b.
e. Information on sources of data used in quantifying the reference point(s)	Greenhouse Gas Inventory prepared for the Third National Communication.
f. Information on the circumstances under which the Party may update the values of the reference indicators	In the next Greenhouse Gas Inventory, Nepal may update the reference indicators of existing sectors and/or may provide new values for sectors not previously covered. Nepal will update the values of reference indicators in such cases.
2. Time frames and/or per	iods for implementation
a. Time frame and/or period for implementation, including start and end date, consistent with any further relevant decision adopted by the CMA;	From 1 st January 2021- 31 st December 2030.
b. Whether it is a single- year or multi-year target, as applicable.	Single year target – 2030, including updates on 2025 targets.

3. Scope and coverage	
a. General description of the target ;	Sectoral activity-based and policy targets, including emissions reduction in some sectors. The Government of Nepal will meet unconditional targets from its resources.
	Conditional targets are dependent on international support on financing, technology transfer and/or capacity building.
b. Sectors, gases, categories and pools covered by the nationally determined contribution, including, as applicable, consistent with IPCC guidelines;	 Sectors: Energy Electricity generation Transportation Residential demand (energy demand for cooking) Agriculture, Forestry and Land Use (AFOLU) Deforestation and forest degradation Agriculture Industrial process and product use (IPPU) Waste Gases: Carbon Dioxide (CO₂) Methane (CH₄) Nitrous Oxide (N₂O)
c. How the Party has taken into consideration paragraphs 31(c) and (d) of decision 1/CP.21;	The detailed assessment carried out during the NDC formulation process concluded that the data needed to define targets and to rigorously assess the impact of policies and actions on emissions for all sectors was not available. Nepal will extend the scope of the coverage of its NDC overtime to all categories of anthropogenic emissions and removals, as more robust data becomes available.
d. Mitigation co-benefits resulting from Parties' adaptation actions and/or economic diversification plans, including a description of specific projects, measures and initiatives of Parties' adaptation actions and/or economic diversification plans.	Not applicable.

4. Planning process				
a. Information on the planning processes that the Party undertook to prepare its				
NDC and, if available, on the Party's implementation plans, including, as appropriate:				
	The NDC was developed through an inclusive and participatory process, with a series of consultations at national and provincial levels.			
i. Domestic institutional arrangements, public participation and engagement	Nepal's NDC formulation was a country-driven process following the principle of Leave No One Behind (LNOB). A team of experts reviewed overarching and sectoral policies, strategies and programs; and coordinated the process of gathering data and performing analysis. These assessments were later verified through in-person and virtual consultations both at national and provincial levels with line ministries, experts, Local Peoples, women, Indigenous Peoples and youth.			
engagement with local communities and indigenous people, in a gender- responsive manner;	The reviewed targets served as inputs for the technical work, such as the Low Emissions Analysis Platform (LEAP) modelling for building scenarios and projections. The output of the technical work and inputs from consultations were further reviewed and verified by the NDC Working Committee, established by the Ministry of Forests and Environment and comprising representatives from government agencies and relevant experts. Furthermore, the NDC was discussed at the Inter-Ministerial Coordination Committee on Climate Change (IMCCCC) and shared with respective line ministries and civil society organizations for formal input. Finally, it was submitted to the Cabinet for approval.			
ii. Contextual matters, inclu	uding, <i>inter alia</i> , as appropriate:			
(a) National circumstances , such as geography, climate, economy, sustainable development and poverty eradication;	Nepal is a landlocked country that lies in the southern face of the Himalayan mountain range. The country is located between 26 ⁰ 22' and 30 ⁰ 27' North latitude and 80 ⁰ 04' and 88 ⁰ 12' East longitude and covers an area of 147,181 square kilometres. Physiographic regions within the country include High Himal, High Mountain, Middle Mountain, Siwalik, and the <i>Tarai</i> . Within these regions, elevations range from 59 meters to 8,848 meters. Nepal's climate is influenced by the Himalayan mountain range and the South Asian Monsoon. The climate has four distinct seasons: pre-monsoon (March-May), monsoon (June-September), post-monsoon (October- November) and winter (December-February)			

	Nepal is a Least Developed Country (LDC) whose economy mostly depends on agriculture and remittances. Nepal's per capita GDP was USD 1,085 in
	the fiscal year 2019/2020 with a growth rate of 7.5%
	from the last fiscal year. However, the impact of COVID-
	19 is already bringing these numbers down.
	In the past two decades, the proportion of Nepali people living in absolute material poverty has more than halved from 49% in 1992 to 23% in 2015. Rates of child and maternal mortality reduced significantly as well. Primary school enrolment now exceeds 96% and has gender parity. Average life expectancy at birth has crossed 70 years. Nepal's pace of development has been one of the highest in the world. The latest Multi- dimensional Poverty Index (MPI) shows that 28.6% of the population is still low. This means their lives are impacted by several deprivations simultaneously. However, It also reveals that Nepal halved its official MPI between 2006 and 2014.
	Building on the relative success of the Millennium Development Goals, Nepal is committed to pursuing and achieving the Sustainable Development Goals (SDGs) by 2030, including the target set by the Sendai Framework on Disaster Risk Reduction. These global ambitions are broadly aligned with the social, economic, environmental and risk reduction aspirations that Nepal has set for itself in its new constitution.
(b) Best practices	See above 4 (a, i)
and experience	
related to the	
NDC [.]	
(a) Other contextual	The provision in the Paris Agreement to limit global average temperature rise to 1.5°C results in lower risks for Nepal when compared to 2°C or higher temperatures
(c) Other contextual aspirations and	Nepal's commitment to reduce national GHG emission
priorities	levels will require international support on financing.
acknowledged when	technology transfer and/or capacity building.
Agreement	Furthermore Nepal aspires to avoid the residual risks
, <u>g. c c</u> ,	caused by Loss and Damage and to receive financial
	and any other support for the risks that may still
	materialize.
b. Specific information	Not applicable.

applicable to Parties,	
including regional	
economic integration	
organizations and their	
member States, that have	
reached an 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;	
¥	The first global stocktake will take place in 2023.
	5
c. How the Party's	Nepal organized the Talanoa Dialogue in 2018, which
preparation of its NDC has	generated political momentum for enhanced climate
been informed by the	action, including a call for Parties to update their NDCs.
outcomes of the global	, G
stocktake, in accordance	Nepal's new NDC is more ambitious than its previous
with Article 4, paragraph	one, both in terms of its sectoral coverage (through the
9. of the Paris Agreement:	inclusion of land-use change and forestry, energy, and
, · · · · · · · · · · · · · · · · · · ·	waste) and in terms of its net emission reduction
	contribution.
d. Each Party with an	Not Applicable.
NDC 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:	
i. How the	Not Applicable.
economic and social	
consequences of	
response measures	
have been considered in	
developing the NDC;	
ii. Specific	Not Applicable.
projects, measures and	
activities to be	
implemented to contribute	

to miligation co-benents,	
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	
5 Assumptions and meth	odological approaches including those for estimating
J. Assumptions and meth	outing the sum of the
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and accounting for an appropriate removals.	thropogenic greenhouse gas emissions and, as
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and accounting for an appropriate, removals: 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; b. Assumptions and methodological approaches used for accounting for the implementation of policies and measures	 thropogenic greenhouse gas emissions and, as Nepal will account for its anthropogenic GHG emissions and removals using the 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines for National Greenhouse Gas Inventories. Two additional guidelines will be considered for quality assurance: The IPCC Good Practice Guidance and Uncertainty Management in National GHG Inventory (2000) The IPCC Good Practice Guideline for Land Use, Land-Use Change, and Forestry (2003). See 5(a) above. Nepal will also apply specific assumptions and methodologies where relevant when accounting for various policies and measures in its Biennial Update Report, Biennial Transparency Report, or National Communicational Communicational Transparency Report, or National Communicational Communicational Transparency Report, or National Communicational Communicational Communicational Transparency Report, or National Communicational Transparency Report, or National Communicational Transparency Report, or National Communicational Commu

nationally determined	
contribution;	
c. If applicable,	See 5 (a) above.
information on how the	
Party will take into	The IPCC 2006 Guidelines has been used to calculate
account existing	emissions in the GHG Inventory of Nepal's Third
methods and guidance	National Communication.
under the Convention to	
account for anthropogenic	
emissions and removals,	
in accordance with Article	
4, paragraph 14, of the	
Paris Agreement, as	
appropriate;	
d. IPCC methodologies	See 5(a) above.
and metrics used for	Nepal's emissions will be derived by using the Tier 1
estimating anthropogenic	(and in a few cases Tier II) methodologies of the 2006
greenhouse gas	IPCC Guidelines.
emissions and removals;	
Sector- category- or	Due to limited data availability, not all sectors are
e. Sector-, category- or	covered in Nepal's NDC. In the future, Nepal would like
activity-specific	to update its emission inventories, develop emission
mothodologios	factors for all sectors following the 2006 IPCC
annocches consistent	guidelines, carry out modelling to build sector-specific
with IPCC guidance as	scenarios and projections, establish a mechanism to
appropriate including as	collect, store and maintain datasets and account for
appropriate, including, as	conditional targets that require financial, capacity
	building and technical support.
i. Approach to	See (e) above.
addressing emissions and	
subsequent removals from	
natural disturbances on	
managed lands;	
ii. Approach used	Not applicable.
to account for emissions	
and removals from	
harvested wood	
products;	
III. Approach used	ivot applicable.
to address the effects of	
age-class structure in	
f Other accumptions	
and methodological	
and memodological	
understanding the	
nationally dotormined	

contribution and, if		
applicable, estimating		
corresponding emissions		
and removals, including:		
i. How the reference	Not applicable.	
indicators , baseline(s)		
and/or reference level(s),		
including, where		
applicable, sector-,		
category- or activity-		
specific reference levels.		
are constructed, including,		
for example key		
narameters assumptions		
definitions		
methodologies data		
sources and models used:		
ii For Partice with	Not applicable	
II. FOI Failles will notionally determined	Not applicable.	
nationally determined		
non-greenhouse-gas		
components, information		
on assumptions and		
methodological		
approaches used in		
relation to those		
components, as		
III. For climate	Not applicable.	
forcers included in		
nationally determined		
contributions not covered		
by IPCC guidelines,		
information on how the		
climate forcers are		
estimated;		
iv. Further	Not applicable.	
technical information, as		
necessary;		
	Nepal may explore potential markets that allow higher	
g. The intention to use	mitigation ambition while promoting sustainable	
voluntary cooperation	development and environmental integrity.	
under Article 6 of the		
Paris Agreement, if		
applicable.		
6. How the Party considers that its NDC is fair and ambitious in light of its		

national circumstances		
a. How the Party considers that its NDC is fair and ambitious in the light of its national circumstances;	Nepal is a Least Developed Country with an insignificant contribution to past and current global emissions. Nevertheless, Nepal recognizes that to meet the 1.5°C temperature goal, all countries need to undertake ambitious mitigation actions. This NDC and accompanying information reflect Nepal's commitment under the Paris Agreement to address climate change.	
considerations, including reflecting on equity;		
c. How the Party has addressed Article 4 , paragraph 3 , of the Paris Agreement;	This NDC broadens the ambition of the 2016 NDC, both in terms of sectoral coverage and net emission reduction contribution.	
d. How the Party has addressed Article 4, paragraph 4 , of the Paris Agreement;	In addition to the sectoral activity-based targets for transport, cooking, forestry and waste sectors, the 2020 NDC also includes policy targets for sectors where data and/or baseline information is not available such as for electric railroads, solid waste management and industries. This paves the way for Nepal to establish an economy-wide emissions target, based on national circumstances and capabilities.	
e. How the Party has addressed Article 4, paragraph 6 , of the Paris Agreement.	In addition to sectoral activity-based targets, Nepal's 2020 NDC also includes policy targets (See section 1(d)) for areas where data and/or baseline information is not available. These areas include electric railroads, solid waste management and industries.	
7. How the NDC contributes towards achieving the objectives of the Convention as set out in its Article 2		
a. How the NDC contributes towards achieving the objective of the Convention as set out in its Article 2;	See above, 6 (a).	
b. How the NDC contributes towards Article 2, paragraph 1(a), and Article 4, paragraph 1, of the Paris Agreement.	See above, 6 (a) and 7(a).	

4. Adaptation Component of NDC

As per Article 7.10 and 7.11 of the Paris Agreement, Nepal will submit an adaptation communication, which will include its priorities, implementation and support needs,

plans and actions through the National Adaptation Plan (NAP). The NAP will outline Nepal's contribution towards meeting the adaptation goals set out in the Paris Agreement and the required means of implementation to implement that contribution fully.

Nepal is at high-risk to the effects of climate change. Thus, adaptation will be a constant requirement for the country. Adaptation priorities and actions, as per the National Climate Change Policy (2019), adopt an integrated approach to cover climate-sensitive sectors exemplifying the inter-sectoral nature of the responses. The adaptation priorities cover eight thematic and four cross-cutting areas.

The thematic areas are:

- Agriculture and Food Security;
- Forests, Biodiversity and Watershed Conservation;
- Water Resources and Energy;
- Rural and Urban Settlements;
- Industry, Transport and Physical Infrastructure;
- Tourism, Natural and Cultural Heritage;
- Health, Drinking Water and Sanitation;
- Disaster Risk Reduction and Management.

The cross-cutting areas are:

- Gender Equality and Social Inclusion (GESI), Livelihoods and Governance;
- Awareness Raising and Capacity Building;
- Research, Technology Development and Extension;
- Climate Finance Management.

Nepal will accelerate adaptation by implementing the National Environment Policy (2019), National Climate Change Policy (2019), Environment Protection Act (2019), Environment Protection Regulation (2020), National Adaptation Program of Action (NAPA) (2010), Framework on Local Adaptation Plans of Action (LAPA) (2019), Disaster Risk Reduction National Strategic Plan of Action 2018 – 2030, Fifteenth Plan

(2019/2020-2023/2024), and other national strategies and action plans. The key policy priorities of Nepal, on adaptation, include the following:

- By 2030, all 753 local governments will prepare and implement climate-resilient and gender-responsive adaptation plans. The plans will address climate change and disaster vulnerability and risks and prioritize adaptation and disaster risk reduction and management measures focusing on women, differently-abled, children, senior citizens, youth, Indigenous Peoples, economically deprived communities and people residing in climate-vulnerable geographical areas.
- The National Adaptation Plan (NAP) will be updated every ten years. Likewise, a National level Vulnerability and Risk Assessment (VRA) will be carried out every five years to inform climate resource allocation policies.
- By 2025, institutional mechanisms will be established and/or operationalized including Environment Protection and Climate Change Management National Council, Inter-Ministerial Climate Change Coordination Committee (IMCCCC), thematic and cross-cutting working groups (TWGs/CWGs), Climate Change Research Centre, Provincial Climate Change Coordination Committee and local level institutional structures.
- By 2021, GESI and Climate Change Strategy and Action Plan, and Climate Resilient Planning and Budgeting Guidelines will be formulated.
- By 2025, a strategy and action plan on gender-responsive climate-smart technologies and practices will be prepared and implemented.
- By 2025, climate change-related education will be included in all secondary schools and 2,000 climate change adaptation resource persons will be mobilized locally.
- By 2025, climate-sensitive diseases surveillance systems will be strengthened through the integration of climate and weather information into existing surveillance systems.
- By 2030, the population with access to the basic water supply will increase from 88% to 99%; and population with improved water supply will increase from 20% to 40%.

- By 2025, climate risk assessment mechanisms will be integrated into WASH program planning and implementation cycle.
- Public Weather Services (PWS), including the Agro-Meteorological Information System, will be strengthened and established.
- By 2030, a multi-hazard monitoring and early warning system covering all the provinces will be established.
- By 2025, a national strategy and action plan on Loss and Damage (L&D) associated with climate change impacts will be devised.
- By 2022, a Climate Finance Strategy, and National Capacity on Climate Finance Management will be formulated.
- Adaptation measures based on circular economy and sustainable resource use will be developed and implemented.

Nepal is in the process of developing its National Adaptation Plan (NAP). Through this process, Nepal intends to implement medium and long-term adaptation needs, including urgent and immediate priorities. Key outputs of NAP include the following:

- The NAP will be formulated by 2021. It will incorporate adaptation and resilience milestones to be achieved in the short-term (by 2025), medium-term (by 2030) and long-term (by 2050).
- By 2025, a Climate Information System will be established and operationalized.
- By 2022, a NAP Monitoring, Reviewing and Reporting Framework will be developed and operationalized.

5. Means of Implementation

The cost of achieving Nepal's NDC conditional mitigation targets is estimated to be USD 25 billion. The cost of achieving unconditional targets outlined in the NDC is estimated to be USD 3.4 billion. This estimate only covers activity-based targets and does not include the cost of policies, measures and actions. The cost of achieving the adaptation component will be detailed in the upcoming National Adaptation Plan (NAP).

To achieve the conditional targets, Nepal anticipates financial, technological and capacity-building support from global funds such as the Green Climate Fund, Global

Environment Facility, Adaptation Fund, Least Developed Countries Fund and bilateral/multilateral agencies and development partners. These funds will be utilized to bolster limited national resources and technical capacities for scaling up climate action.

The activities will be implemented for 10 years (2021-2030) by integrating them under the fiscal budget as various subsidy policies, projects or programs. As these targets are well aligned with the country's existing policies and plans, they will have high ownership and will be implemented on time at the national and sub-national levels. The key elements during implementation include:

- **Governance:** Enact key acts and regulations and strengthen institutional capacity to facilitate NDC implementation.
- Finance: Develop NDC financing and investment framework along with a strategy to streamline access to funds while bridging the gaps in the public and private sectors.
- Economic Efficiency and Cost Effectiveness: Ensure maximization of economic benefits and cost-effectiveness during the implementation of the NDC.
- Equity and Inclusiveness: Include the principles of equity, ensuring equal access to women, children, youth, Indigenous Peoples and marginalized groups during participation, decision-making and benefit-sharing from NDC implementation.
- Monitoring, Reporting and Verification (MRV): Promote data-driven tracking of NDC targets along with a strengthening of data generation and validation framework. Identify best practices while also incorporating lessons learnt. Maintain transparency by widely disseminating the methodology and results of the MRV.

Nepal will prepare a detailed NDC implementation framework/roadmap/plan to ensure the targets will be achieved in a systematic matter. The key elements of this framework/roadmap/plan include:

- **Capacity Building:** Identify and meet capacity-building needs across government bodies to enable implementation of relevant policies and improve collaboration across key ministries.
- Knowledge Management: Establish processes to retain knowledge within institutions, including through data management systems for transparency and MRV purposes.
- Institutional mechanism: Implement the NDC through federal, provincial and local governments, in collaboration with other relevant stakeholders including youth, women and Indigenous People. Coordinate NDC implementation through the Environment Protection and Climate Change Management National Council, Inter-Ministerial Climate Change Coordination Committee (IMCCCC), Thematic and Cross-Cutting Working Groups, and Provincial Climate Change Coordination Committees.
- Communication and Coordination: Develop clear lines of communication between different levels of governance (local, provincial, national and international) and across different sectors and stakeholders, including women, Indigenous Peoples and youth.
- Finance: Develop a financing and investment framework that ensures efficient access to climate funds and evidence-based allocations to areas of demand, including the green recovery agenda. Ensure that the framework differentiates between sources of finance to be used in each area, including in adaptation, mitigation, and Loss and Damage.
- **Tools:** Develop tools and models to support inclusive decision-making during planning and implementation of activities.