



Southeast, South, and East Asia

MITIGATION PLAN REFERENCE

**Nationally Determined Contributions (NDCs)
& National Policies**

This reference is also available on the [APMDD Wiki](#).
Please check it for more up-to-date information.

Asian Peoples' Movement on Debt and Development (APMDD)

2023

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SECTION I

Introduction



Purpose

This packet is intended to serve as a reference for quick access to information about each country's Nationally Determined Contributions (NDCs) for GHG emission mitigation submitted under the Paris Agreement, as well as national policies to support those commitments, in preparation for COP27.

Included in this packet are (1) charts comparing countries' NDCs and national policies, (2) checklists for each country showing whether certain indicators are present in their NDCs and national policies, (3) lists of and links to policies cited in NDCs and additional policies that contribute to national mitigation efforts, and (4) other useful reference material.

Please email any comments or corrections to Luca Encarnación at luca.enca@gmail.com.



Indicators: Mitigation Overview

Emissions

- Quantifiable base/target year indicators
- Unconditional emissions targets
- Conditional/unspecified emissions targets
- Specific targets per sector
- Carbon-neutral/net-zero target year
- Unquantifiable mitigation plans
- Transition to sustainable economy
- New/updated NDC with more ambitious targets
- Plan to use voluntary cooperation (Art. 6)
 - Market mechanisms
 - Non-market mechanisms
 - Qualitative limits on Article 6 use

Other

- Measurement, Reporting, and Verification (MRV) system
- Public NDC Tracking/Reporting System
- Stakeholder consultation arrangements
 - Formal system for future consultations
- NDC expresses financial intent
- Mitigation co-benefits from other actions
- SDG co-benefits
- Community engagement mitigation initiatives



Indicators: Scope

Scope

- Covered all 2006 IPCC Guidelines sectors?
- Covered all 6 Kyoto Protocol GHGs?
- Discussed mitigation finance?
 - General budget/cost
 - Budget/cost for specific actions

IPCC Guidelines Sectors

- Power/Energy
- Industrial Processes and Product Use (IPPU)
- Agriculture
- Forestry and Other Land Use
- Waste

Greenhouse Gases

- CO₂ (carbon dioxide)
- CH₄ (methane)
- N₂O (nitrous oxide)
- HFC (hydrofluorocarbons)
- PFC (perfluorocarbons)
- SF₆ (sulfur hexafluoride)
- NF₃ (nitrogen trifluoride - not in Kyoto Protocol)



Indicators: Energy/Forestry

Energy

- Discussed renewable energy?
 - Hydropower
 - Wind
 - Solar
 - Biomass
 - Other biofuel
 - Geothermal
 - Nuclear
 - Natural gas
- Quantifiable renewable energy targets
- Renewable energy budget
- Quantifiable energy efficiency targets
 - Specific actions

Forestry

- Quantifiable forestry targets
 - Specific forestry actions?
 - Forest cover target (% or ha)
 - Reduction of deforestation
 - Afforestation/reforestation
- Change of FOLU policies



Indicators: Level of Ambition

Mitigation Actions Aligned with IPCC SR1.5 Pathway

- Halting investment in unabated coal by 2030
 - Specific measures to enforce
- Phase-out of fossil fuel passenger vehicle sales
 - Specific measures to enforce
- Requiring new buildings to be near zero-energy by 2020
 - Specific measures to enforce
- Expanding forest cover by 2030
 - Quantitative forestry targets
- Reducing food waste and loss
 - Specific measures to support
 - Quantifiable target(s)

- Target renewable energy share within 47-65%
 - RE target is lower than 47% or unspecified %
 - No RE share target specified

Phase-Out

- Quantifiable phase-out period for fossil fuels
 - Coal
 - Gas
 - Oil



Term Clarification: LULUCF vs. FOLU / AFOLU

- The term LULUCF (“Land Use, Land Use Change, and Forestry”) is interchangeable with FOLU (“Forestry and Other Land Use”).
- LULUCF includes emissions and removals from cropland, but does not include non-CO2 emissions (mostly methane and nitrous oxide) from agricultural practices, which are categorized under “Agriculture,” not LULUCF, in the Revised 1996 IPCC Guidelines for National GHG Inventories and IPCC Good Practice Guidance.
- In the IPCC 2006 Guidelines, LULUCF and Agriculture are merged in a two-part volume known as AFOLU (“Agriculture, Forestry and Other Land Use”).



Term Clarification: Language to Describe Trends

Language for identifying trends is modelled on the usage in the UNFCCC Synthesis Report as follows:

- “A few”: less than 10 per cent;
- “Some”: 10-40 per cent;
- “Many”: 41-70 per cent;
- “Most”: 71-90 per cent;
- “Almost all”: more than 90 per cent.

SECTION II

Mitigation NDC Comparison

Mitigation NDC Comparison: Overview

Mitigation NDCs: General Overview		Cambodia	Indonesia	Myanmar	Philippines	Thailand	Viet Nam	Bangladesh	India	Nepal	Pakistan	Sri Lanka	Japan	S. Korea
Emissions	Quantifiable base/target year indicators	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Unconditional Emissions Targets		Y	Y	Y	Y	Y			Y	Y	Y	Y	Y
	Conditional/Unspecified Emissions Targets	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			
	Specific Targets Per Sector	Y	Y	Y			Y	Y		Y	Y	Y		
	Carbon-Neutral/Net Zero Target Year			Y								Y	Y	Y
	Unquantifiable Mitigation Plans	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Transition to Sustainable Economy	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	New/Updated NDC with More Ambitious Targets	Y		Y			Y		Y	Y			Y	Y
	Plan to Use Voluntary Cooperation (Article 6)	Y	Y	Y	Y	Y	Y		Y	Y			Y	Y
	Market mechanisms	Y		Y	Y	Y	Y		Y	Y			Y	
	Non-market mechanisms				Y		Y	Y		Y			Y	
	Qualitative Limits on Article 6 Use?													
Other	MRV System	Y	Y	Y	Y	Y	Y		Y	Y	Y			
	Public NDC Tracking/Reporting System	Y		Y					Y		Y			Y
	Stakeholder Consultation Arrangements	Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y
	Formal System for Future Consult.	Y		Y	Y		Y	Y	Y	Y				Y
	NDC Expresses Financial Intent	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Mitigation Co-Benefits from Other Actions	Y	Y	Y	Y		Y	Y		Y	Y			
	SDG Co-Benefits	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Community Engagement Mitigation Initiatives	Y	Y	Y		Y	Y		Y	Y	Y	Y	Y	Y

Key

- Included in NDC
- Partial/Under Development/Implied

Mitigation NDC Comparison: Sector and GHG Scope

Mitigation NDCs: Sector and GHG Scope		Cambodia	Indonesia	Myanmar	Philippines	Thailand	Viet Nam	Bangladesh	India	Nepal	Pakistan	Sri Lanka	Japan	S. Korea
Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	Y
	Covered All 6 Kyoto Protocol GHGs				Y		Y					Y	Y	
	Discussed Mitigation Finance	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y	Y
	General Budget/Cost	Y	Y	Y		Y	Y	Y		Y				
Budget/Cost for Specific Actions	Y		Y			Y								
Sectors	Power/Energy	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Industrial Processes and Product Use (IPPU)	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Agriculture	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Forestry and Other Land Use	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
	Waste	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	All 2006 IPCC Guidelines Sectors?	Y	Y			Y	Y	Y	Y	Y	Y	Y	Y	Y
Greenhouse Gasses	CO2 (carbon dioxide)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	CH4 (methane)	Y	Y		Y	Y	Y		Y			Y	Y	Y
	N2O (nitrous oxide)	Y	Y		Y	Y	Y		Y	Y		Y	Y	Y
	HFC (hydrofluorocarbons)				Y	Y	Y					Y	Y	Y
	PFC (perfluorocarbons)				Y	Y						Y	Y	Y
	SF6 (sulfur hexafluoride)				Y							Y	Y	Y
	NF3 (nitrogen trifluoride - not in Kyoto Protocol)											Y		
	All Kyoto Protocol GHGs?				Y							Y	Y	Y

Key

- Included in NDC
- Partial/Under Development/Implied

Mitigation NDC Comparison: Energy/Forestry

Mitigation NDCs: Energy/Forestry		Cambodia	Indonesia	Myanmar	Philippines	Thailand	Viet Nam	Bangladesh	India	Nepal	Pakistan	Sri Lanka	Japan	S. Korea
Energy	Discussed Renewable Energy	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y
	Hydro	Y	Y	Y			Y	Y	Y	Y	Y	Y		Y
	Wind	Y	Y	Y			Y	Y	Y	Y	Y			Y
	Solar	Y	Y	Y			Y	Y	Y	Y	Y	Y		Y
	Biomass	Y	Y				Y	Y	Y		Y	Y		
	Other Biofuel		Y				Y		Y					
	Geothermal		Y											Y
	Nuclear								Y					
	Natural Gas			Y										Y
	Quantifiable Renewable Energy Targets	Y	Y	Y				Y	Y	Y	Y	Y		
Renewable Energy Budget	Y		Y			Y	Y							
Quantifiable Energy Efficiency Targets	Y	Y	Y				Y	Y	Y	Y	Y			
Specific Actions	Y		Y			Y	Y	Y	Y	Y	Y		Y	
Forestry	Quantifiable Forestry Targets	Y	Y	Y				Y	Y	Y	Y			
	Specific Forestry Actions?	Y	Y	Y			Y		Y	Y	Y		Y	
	Forest Cover Target (% or ha)	Y		Y			Y	Y	Y	Y	Y	Y	Y	
	Reduction of Deforestation	Y	Y	Y	Y		Y	Y		Y	Y	Y	Y	
	Afforestation/Reforestation	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	
	Change of FOLU Policies	Y	Y	Y			Y	Y		Y	Y	Y		Y

Key

- Included in NDC
- Partial/Under Development/Implied

Mitigation NDC Comparison: Level of Ambition to Align with IPCC 1.5°C Pathway

Mitigation NDCs: Level of Ambition		Cambodia	Indonesia	Myanmar	Philippines	Thailand	Viet Nam	Bangladesh	India	Nepal	Pakistan	Sri Lanka	Japan	S. Korea
Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030									Y	Y		Y	
	Specific measures to enforce									Y	Y		Y	
	Phase-out of fossil-fuel passenger vehicle sales		Y						Y					
	Specific measures to enforce									Y	Y		Y	
	Requiring new buildings to be near zero-energy by 2020	Y	Y					Y					Y	
	Specific measures to enforce	Y						Y	Y	Y	Y	Y	Y	
	Expanding forest cover by 2030	Y		Y	Y		Y	Y	Y	Y	Y			Y
	Quantitative forestry targets	Y		Y			Y	Y	Y	Y	Y			
	Reducing food waste and loss		Y									Y		
	Specific measures to support													
Quantifiable target(s)														
Target Renewable Energy Share Within 47-65%			Y							Y	Y			
RE target is lower than 47% or unspecified %	Y	Y					Y	Y	Y			Y	Y	
No RE share target specified				Y	Y	Y								
Phase-Out	Quantifiable Phase-Out Period for Fossil Fuels		Y	Y						Y	Y			
	Coal		Y	Y						Y	Y		Y	
	Gas		Y											
	Oil		Y											

Key

- Included in NDC
- Partial/Under Development/Implied
- Negative indicator

Note: Some countries' NDCs are very broad. Policies may contain some of the features identified in this chart even if they are not described in NDCs.

Notes: (1) "Mitigation Actions Aligned with IPCC SR1.5 Pathway" are taken from the [UNFCCC Synthesis Report](#) published on Sept. 17, 2021. A new [Synthesis Report for 2022](#) has been published on Oct. 26, 2022. (2) Indicators marked with "Y" include conditional targets. (3) RE target of "unspecified %" includes targets of specific amounts of GW installed capacity, because it is unknown how much the capacity of other types of energy supply will increase in the future. (4) "Partial" measures to enforce phase-out of fossil fuel passenger vehicle sales and zero-energy building requirements include incentives for electric vehicles and building codes for energy efficiency respectively.



Positive Observable Trends in NDCs

- All countries contain quantifiable emissions targets and unquantifiable mitigation actions.
- All countries' NDCs express financial intent.
- Most countries have unconditional emissions targets.
- Many countries set specific targets per sector.
- All countries' NDCs included unquantifiable mitigation plans and discussed transitioning to a sustainable or low-carbon economy.
- Most countries expressed interest or intent to use voluntary cooperation under Article 6.
- Most countries discussed Monitoring, Reporting, and Verification (MRV) systems, although in most cases the systems were still under development upon release of the NDC.



Neutral Observable Trends in NDCs

- Most countries have conditional emissions targets or do not specify whether targets are conditional or unconditional.
- Many countries have quantifiable renewable energy targets, but only 8 out of 13.
- Many countries have quantifiable energy efficiency targets, but only 8 out of 13.
- Of the countries that expressed intent to use voluntary cooperation under Article 6, none mentioned qualitative limits on the use of such voluntary cooperation. This was identified as an important element by the UNFCCC Synthesis Report.



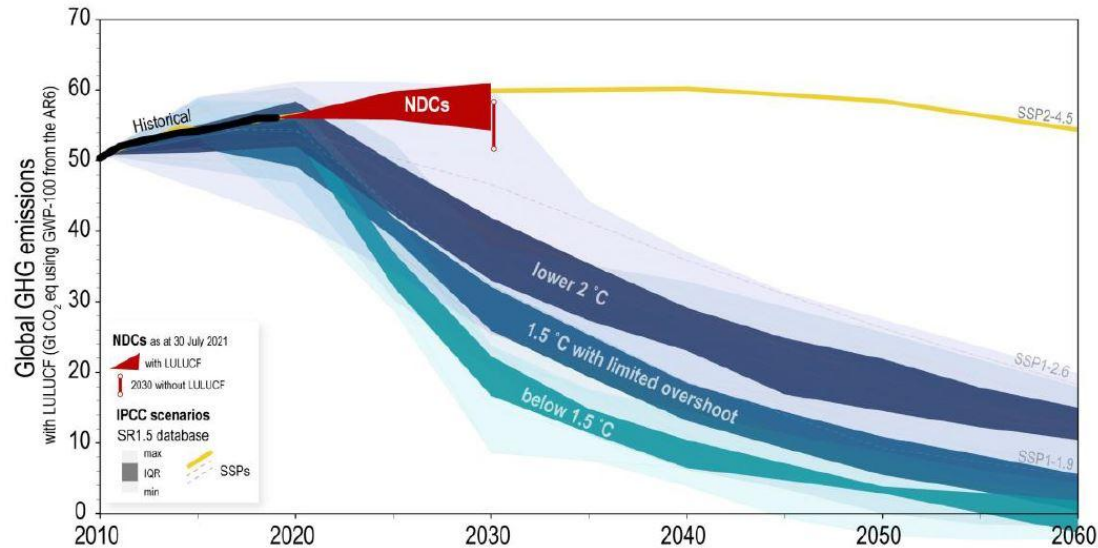
Negative Observable Trends in NDCs

- Only some countries specified a target net-zero or carbon-neutral year.
- Only some (23%) of the countries have stated budgets for renewable energy.
- Only about half of the countries submitted an updated NDC that reflects stronger commitments to curbing emissions. Many of those that did submit a new NDC restated the same targets as the previous NDC or targets that were only marginally higher.
- Only some countries discussed tracking NDC progress in a way that is accessible to the public.

NDCs vs. IPCC Scenarios

Figure 9

Comparison of global emissions under scenarios assessed in the Intergovernmental Panel on Climate Change Special Report on Global Warming of 1.5 °C with total global emissions according to nationally determined contributions



The chart to the left, from the 2021 UNFCCC Synthesis Report, demonstrates that all NDCs' targets indicate results significantly higher than IPCC target scenarios.

Note: This graph represents all countries, not just the Asian countries examined in this presentation.

SECTION III

Mitigation NDC + Policy Comparison



Note About This Section

Because many of the factors reported on the checklist are stated most clearly in the NDCs, such as the scope of GHG and sectors covered, the charts show the information present in NDCs *in addition* to what can be found in the country's policies.

Mitigation NDC + Policy Comparison: Overview

Mitigation NDCs + Policies: General Overview		Cambodia	Indonesia	Myanmar	Philippines	Thailand	Viet Nam	Bangladesh	India	Nepal	Pakistan	Sri Lanka	Japan	S. Korea
Emissions	Quantifiable base/target year indicators	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Unconditional Emissions Targets		Y	Y	Y	Y	Y	Y			Y	Y	Y	Y
	Conditional/Unspecified Emissions Targets	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		
	Specific Targets Per Sector	Y	Y	Y			Y	Y	Y	Y	Y	Y		
	Carbon-Neutral/Net Zero Target Year	Y	Y	Y		Y	Y		Y	Y		Y	Y	Y
	Unquantifiable Mitigation Plans	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Transition to Sustainable Economy	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	New/Updated NDC with More Ambitious Targets	Y		Y			Y		Y	Y			Y	Y
	Plan to Use Voluntary Cooperation (Article 6)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y
	Market mechanisms	Y		Y	Y	Y	Y	Y	Y	Y	Y		Y	
	Non-market mechanisms				Y		Y	Y			Y		Y	
	Qualitative Limits on Article 6 Use?													
Other	MRV System	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y			
	Public NDC Tracking/Reporting System	Y		Y	Y			Y	Y		Y		Y	
	Stakeholder Consultation Arrangements	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Formal System for Future Consult.	Y		Y	Y		Y	Y	Y	Y			Y	
	NDC Expresses Financial Intent	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Mitigation Co-Benefits from Other Actions	Y	Y	Y	Y		Y	Y	Y		Y	Y		
	SDG Co-Benefits	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Community Engagement Mitigation Initiatives	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		

Key

- Included in NDC + Policies
- Partial/Under Development/Implied

Mitigation NDC + Policy Comparison: Sector and GHG Scope

Mitigation NDCs + Policies: Sector and GHG Scope		Cambodia	Indonesia	Myanmar	Philippines	Thailand	Viet Nam	Bangladesh	India	Nepal	Pakistan	Sri Lanka	Japan	S. Korea
Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y
	Covered All 6 Kyoto Protocol GHGs				Y		Y					Y	Y	
	Discussed Mitigation Finance	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
	General Budget/Cost	Y	Y	Y	Y		Y	Y	Y		Y	Y		
Budget/Cost for Specific Actions	Y		Y	Y		Y				Y				
Sectors	Power/Energy	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Industrial Processes and Product Use (IPPU)	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Agriculture	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Forestry and Other Land Use	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
	Waste	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	All 2006 IPCC Guidelines Sectors?	Y	Y		Y		Y	Y	Y	Y	Y	Y	Y	Y
Greenhouse Gasses	CO2 (carbon dioxide)	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	CH4 (methane)	Y	Y		Y	Y	Y	Y		Y			Y	Y
	N2O (nitrous oxide)	Y	Y		Y	Y	Y	Y		Y	Y		Y	Y
	HFC (hydrofluorocarbons)				Y	Y	Y	Y					Y	Y
	PFC (perfluorocarbons)				Y	Y							Y	Y
	SF6 (sulfur hexafluoride)					Y							Y	Y
	NF3 (nitrogen trifluoride - not in Kyoto Protocol)												Y	
	All Kyoto Protocol GHGs?				Y								Y	Y

Key

- Included in NDC + Policies
- Partial/Under Development/Implied

Mitigation NDC + Policy Comparison: Energy/Forestry

Mitigation NDCs + Policies: Energy/Forestry		Cambodia	Indonesia	Myanmar	Philippines	Thailand	Viet Nam	Bangladesh	India	Nepal	Pakistan	Sri Lanka	Japan	S. Korea
Energy	Discussed Renewable Energy	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Hydro	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Wind	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Solar	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Biomass	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
	Other Biofuel		Y	Y	Y	Y	Y	Y	Y	Y				
	Geothermal		Y	Y	Y	Y	Y	Y		Y		Y	Y	
	Nuclear			Y	Y	Y	Y	Y		Y	Y	Y	Y	Y
	Natural Gas		Y	Y	Y	Y	Y	Y		Y	Y	Y	Y	Y
	Quantifiable Renewable Energy Targets	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
Renewable Energy Budget	Y		Y	Y		Y	Y	Y			Y	Y	Y	
Quantifiable Energy Efficiency Targets	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Specific Actions	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	
Forestry	Quantifiable Forestry Targets	Y	Y	Y	Y		Y	Y	Y	Y	Y		Y	
	Specific Forestry Actions?	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	
	Forest Cover Target (% or ha)	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y	Y	Y
	Reduction of Deforestation	Y	Y	Y	Y	Y	Y		Y	Y	Y		Y	Y
	Afforestation/Reforestation	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y	Y
	Change of FOLU Policies	Y	Y	Y	Y		Y	Y		Y	Y	Y		Y

Key

- Included in NDC + Policies
- Partial/Under Development/Implied

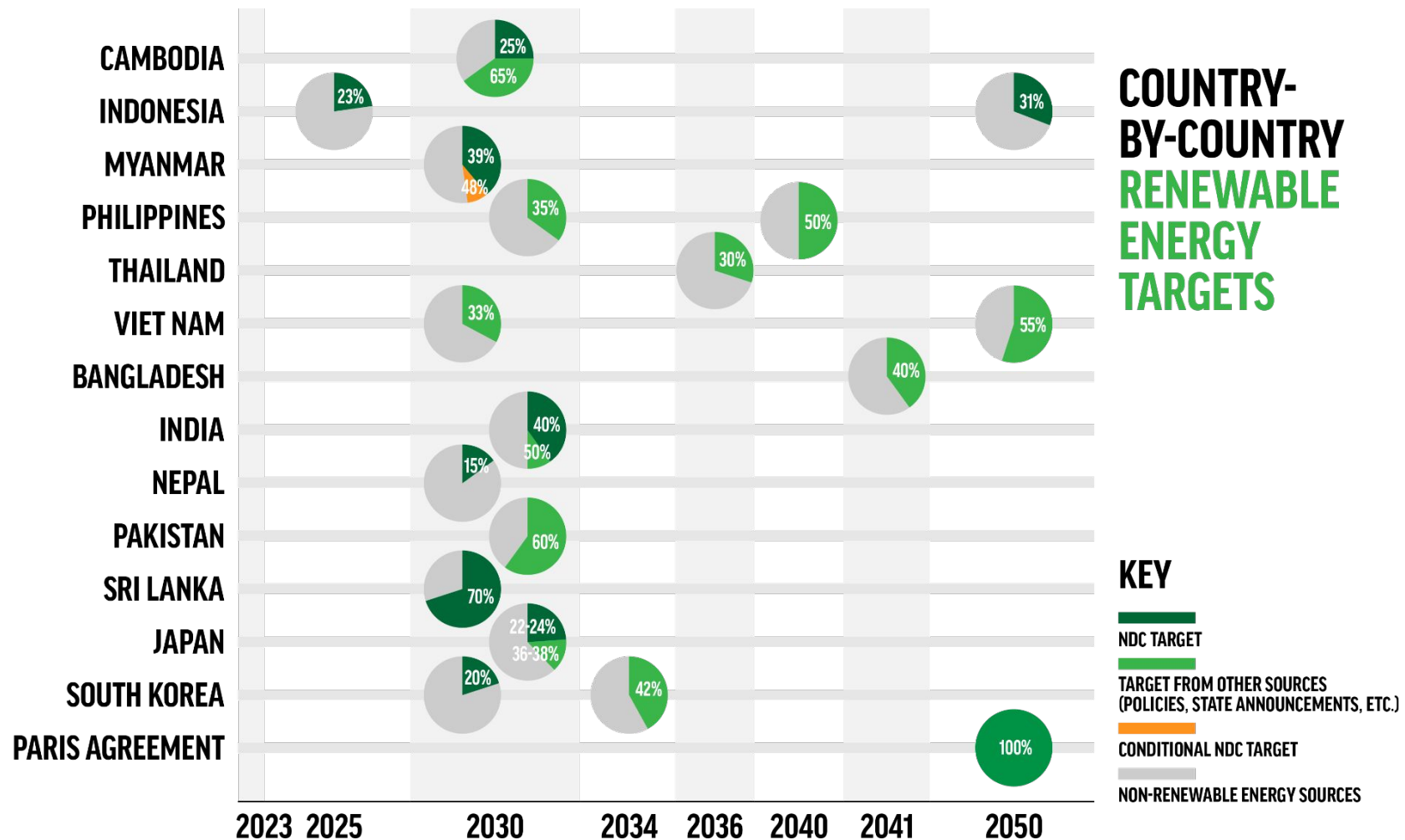
Mitigation NDC + Policy Comparison: Level of Ambition to Align with IPCC 1.5°C Pathway

Mitigation NDCs + Policies: Level of Ambition		Cambodia	Indonesia	Myanmar	Philippines	Thailand	Viet Nam	Bangladesh	India	Nepal	Pakistan	Sri Lanka	Japan	S. Korea
Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030		Y		Y			Y			Y	Y		Y
	Specific measures to enforce		Y		Y			Y			Y	Y		Y
	Phase-out of fossil-fuel passenger vehicle sales			Y	Y			Y		Y	Y	Y		Y
	Specific measures to enforce				Y			Y		Y	Y	Y		Y
	Requiring new buildings to be near zero-energy by 2020	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y
	Specific measures to enforce	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
	Expanding forest cover by 2030	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y		Y
	Quantitative forestry targets	Y	Y	Y	Y		Y	Y	Y	Y	Y	Y		Y
	Reducing food waste and loss		Y								Y	Y	Y	Y
	Specific measures to support										Y	Y		Y
	Quantifiable target(s)										Y	Y		
	Target Renewable Energy Share Within 47-65% by 2030	Y		Y					Y		Y	Y		
	RE target is lower than 47% or unspecified %	Y	Y		Y	Y	Y	Y	Y	Y			Y	Y
	No RE share target specified											Y		
Phase-Out	Quantifiable Phase-Out Period for Fossil Fuels		Y		Y	Y	Y			Y	Y	Y		
	Coal		Y				Y	Y		Y	Y	Y	Y	
	Gas		Y		Y	Y	Y					Y		
	Oil		Y		Y							Y		

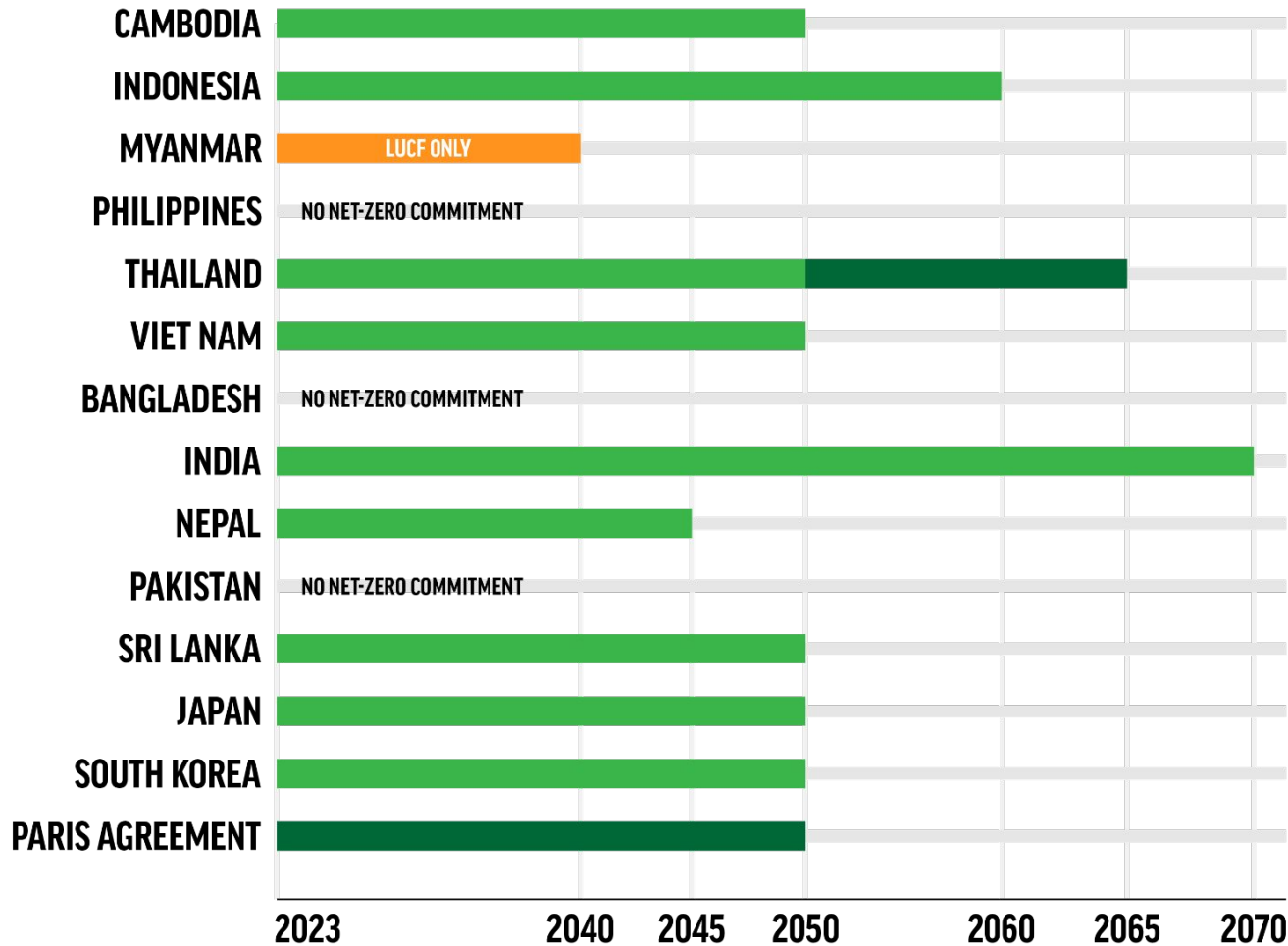
Key

- Included in NDC + Policies
- Partial/Under Development/Implied
- Negative indicator

COUNTRY-BY-COUNTRY RENEWABLE ENERGY TARGETS



COUNTRY-BY-COUNTRY NET-ZERO TARGETS



KEY

- NET-ZERO FOR ALL GHG
- CARBON NEUTRAL / NET-ZERO FOR CARBON EMISSIONS / UNSPECIFIED
- NET-ZERO IN SPECIFIC SECTOR ONLY



Positive Observable Trends in Policies

- All countries' policies have quantifiable energy efficiency targets and describe specific actions.
- All countries' policies discuss detailed renewable energy goals, most with budgets or discussion of sources of finance.
- Most countries' policies set quantitative forestry targets.
- Most countries set a target year for carbon neutrality and/or net zero.



Neutral Observable Trends in Policies

- Most countries' policies describe building codes or standards to promote energy efficiency in newly constructed buildings, but few set that standard at net zero by 2020 as specified in the 2021 UNFCCC Synthesis Report.
- While many countries' policies discuss reducing consumption of fossil fuels, only some set quantitative phase-out targets.



Negative Observable Trends in Policies

- Only some countries' policies address reducing food waste.
- Only some countries have set renewable energy share targets in line with the IPCC 1.5°C pathway.
- While national policies contain more detail than NDCs about actions in line with the IPCC 1.5°C pathway identified in the 2021 UNFCCC Synthesis Report, commitments still largely fall short of what is needed.

SECTION IV

South East Asia Country Profiles

A NOTE ON COUNTRY PROFILES

Each country profile contains:

- An overview containing quantifiable mitigation targets, including:
 - Emissions targets,
 - Forest cover target,
 - Renewable energy share target, and
 - Net Zero target.
- Checklist charts displaying:
 - Overview of what is covered by NDC;
 - Expanded chart including what is covered by national policies in addition to the NDC.
- Links to:
 - Listing of targets cited in NDCs and policy documents,
 - Asia Pacific Energy Policy profile,
 - NDC, and
 - Mitigation policies and related documents.
- Climate Action Tracker Rating
 - general evaluation on how on-track each country is to meet the 1.5°C goal.

[\(View NDC\)](#)

Cambodia



[Asia Pacific Energy Policy Profile](#)

Forest Cover Target by 2030: 60%

Renewable Energy Share Target: 25% (NDC) or 65% (incl. policies) by 2030

Net Zero Target Year: 2050 ([source](#))

Mitigation Finance Needed: 5.8 billion USD¹

Climate Action Tracker Rating: Not Available

¹ Not specified how much of this finance needs to come from international support.

Emissions Targets

TARGET REFERENCE

		INDC (2017)	NDC (2020)
Implementation Period		2020-2030	2020-2030
Total		3,100 Gg CO ₂ -eq (27%) below BAU in 2030 (not including LULUCF/FOLU)	64.5 MtCO ₂ e (42%) below BAU in 2030
	Unconditional	-	-
	Conditional	-	-
Energy Sector		1800 Gg CO ₂ -eq (16%) below BAU in 2030	13.7 MtCO ₂ e (40%) below BAU in 2030
	Unconditional	-	-
	Conditional	-	-
Agriculture Sector		-	6.2 MtCO ₂ e (23%) below BAU in 2030
	Unconditional	-	-
	Conditional	-	-
AFOLU Sector		4.7 tCO ₂ eq/ha/year reduction	38.1 MtCO ₂ e (50%) below BAU in 2030 (FOLU only)
	Unconditional	-	-
	Conditional	4.7 tCO ₂ eq/ha/year reduction	-
Industrial Sector		727 Gg CO ₂ -eq (7%) below BAU in 2030	5.9 MtCO ₂ e (42%) below BAU in 2030
	Unconditional	-	-
	Conditional	-	-
Waste Sector		-	0.6 MtCO ₂ e (18%) below BAU in 2030
	Unconditional	-	-
	Conditional	-	-

Cambodia: Mitigation NDCs

[\(View NDC\)](#)


General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets			Covered All 6 Kyoto Protocol GHGs			Hydro	Y		Specific measures to enforce	
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector	Y		General Budget/Cost	Y		Solar	Y		Specific measures to enforce	
	Carbon-Neutral/Net Zero Target Year		Budget/Cost for Specific Actions	Y	Biomass		Y	Req. new buildings to be near 0-energy by 2020		Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel			Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal			Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets	Y		Agriculture	Y		Nuclear			Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas			Reducing food waste and loss	
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets	Y		Specific measures to support	
Non-market mechanisms		All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget	Y	Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		Greenhouse Gasses	CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%				
MRV System	Y		CH4 (methane)	Y	Specific Actions	Y	RE target is < 47% / unspecified %	Y			
Public NDC Tracking/Reporting System	Y		N2O (nitrous oxide)	Y	Quantifiable Forestry Targets	Y	No RE share target specified				
Stakeholder Consultation Arrangements	Y		HFC (hydrofluorocarbons)		Specific Forestry Actions?	Y	Quantifiable Phase-Out Period for Fossil Fuels				
Formal System for Future Consult.	Y		PFC (perfluorocarbons)		Forest Cover Target (% or ha)	Y	Coal				
NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)		Reduction of Deforestation	Y	Gas				
Mitigation Co-Benefits from Other Actions	Y	NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation	Y	Oil					
SDG Co-Benefits	Y	All Kyoto Protocol GHGs?		Change of FOLU Policies	Y						
Community Engagement Mitigation Actions	Y										

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator



Cambodia: Mitigation NDCs + Policies

General Overview		Scope		Energy/Forestry		Level of Ambition				
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y			Hydro		Y
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y	Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector	Y	General Budget/Cost	Y	Solar		Y	Specific measures to enforce		
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions	Y	Biomass		Y	Req. new buildings to be near 0-energy by 2020	Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel		Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal		Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets	Y		Agriculture	Y		Nuclear		Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas		Reducing food waste and loss	
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets	Y	Specific measures to support	
Non-market mechanisms		All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget	Y	Quantifiable target(s)			
Qualitative Limits on Article 6 Use?		Greenhouse Gasses		CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%		
Other	MRV System		Y	CH4 (methane)	Y	Specific Actions	Y	RE target is < 47% / unspecified %	Y	
	Public NDC Tracking/Reporting System		Y	N2O (nitrous oxide)	Y	Quantifiable Forestry Targets	Y	No RE share target specified		
	Stakeholder Consultation Arrangements	Y	Other	HFC (hydrofluorocarbons)		Specific Forestry Actions?	Y	Quantifiable Phase-Out Period for Fossil Fuels		
	Formal System for Future Consult.	Y		PFC (perfluorocarbons)		Forest Cover Target (% or ha)	Y	Coal		
	NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)		Reduction of Deforestation	Y	Gas		
	Mitigation Co-Benefits from Other Actions	Y		NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation	Y	Oil		
	SDG Co-Benefits	Y		All Kyoto Protocol GHGs?		Change of FOLU Policies	Y			
	Community Engagement Mitigation Actions	Y								

Key

Included

Partial/Under Development/Implied

Negative indicator

CAMBODIA



Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Long-Term Strategy for Carbon Neutrality (2021): [View PDF](#)
- Cambodia Basic Energy Plan (2019): [View](#) / [View PDF](#)
- Circular Economy Strategy and Action Plan: [View](#) / [View PDF](#)
- Rectangular Strategy (RS) IV (2018): [View PDF](#)
- National Environmental Strategy and Action Plan 2016-2023 (2018): [View](#)
- National REDD+ Strategy 2017-2026 (2017): [View PDF](#)
- Climate Change Financing Framework (2015): [View](#)
- Cambodia Climate Change Strategic Plan 2014-2023 (2013): [View](#)
- National Forest Programme 2010-2029 (2010): [View](#)
- Prakas N.470 on the Establishment of General Requirement of Electric Power Technical Standards (2004): [View](#)

CAMBODIA



Outdated Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Climate Change Action Plan for Mines and Energy 2015-2018 (2015¹): [View](#)
- Gender and Climate Change Action Plan 2014-2018 (2016): [View](#)
- Climate Action Plan of Ministry of Environment 2016-2018 (2016): [View](#)
- National Policy on Green Growth 2013 (2013): [View](#)
- Climate Change Strategic Plan for Manufacturing Industry and Energy (2013): [View](#)
- Sub-Decree No. 35 on creation of a National Committee for Managing Climate Change (2006): [View](#)

¹ Website says the policy was approved 2019 and passed 2020, but the year on the document is 2015.

CAMBODIA



Outdated Mitigation Policies: Sector Specific

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Climate Change Action Plan for Industry and Handicraft Sectors 2015-2018 (2015): [View](#)
- Climate Change Action Plan for Ministry of Land Management, Urban Planning and Construction 2015-2018 (2015): [View](#)
- Climate Change Action Plan for Tourism Sector 2015-2018 (2015): [View](#)
- Climate Change Action Plan for Rural Development Sector 2014-2018 (2014): [View](#)
- Climate Change Action Plan for Transport Sector 2014-2018 (2014): [View](#)
- Climate Change Action Plan for the Education 2014-2018 (2014): [View](#)

CAMBODIA



Policies Containing Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Long-Term Strategy for Carbon Neutrality (2021): [View PDF](#)
- Cambodia Basic Energy Plan (2019): [View](#) / [View PDF](#)
- National Forest Programme 2010-2029: [View](#)

[\(View NDC\)](#)

Indonesia



[Asia Pacific Energy Policy Profile](#)

Forest Cover Target by 2030: N/A

RE Share Target: 23% by 2025, 31% by 2050

Net Zero Target Year: 2060 (NDC)

Mitigation Finance Needed: 322.86 billion USD¹

Climate Action Tracker Rating: **Highly Insufficient**

¹ Not specified how much of this finance needs to come from international support.

Emissions Targets

TARGET REFERENCE
Incl. Other Sectors

		Previous NDC (2021)	Latest NDC (2022)
Implementation Period		2020-2030	2020-2030
Total		see below, diff. scenarios	see below, diff. scenarios
	Unconditional	29% of BAU	31.89% of BAU
	Conditional	41% of BAU	43.20% of BAU
Energy Sector		see below, diff. scenarios	see below, diff. scenarios
	Unconditional	314 MtCO _{2e} (11%) below BAU in 2030	358 MtCO _{2e} (12.5%) below BAU in 2030
	Conditional	446 MtCO _{2e} (15.5%) below BAU in 2030	446 MtCO _{2e} (15.5%) below BAU in 2030
Agriculture Sector		see below, diff. scenarios	see below, diff. scenarios
	Unconditional	9 MtCO _{2e} (0.32%) below BAU in 2030	10 MtCO _{2e} (0.3%) below BAU in 2030
	Conditional	4 MtCO _{2e} (0.13%) below BAU in 2030	12 MtCO _{2e} (0.4%) below BAU in 2030
AFOLU Sector		see below, diff. scenarios	see below, diff. scenarios
	Unconditional	497 MtCO _{2e} (17.2%) below BAU in 2030 (FOLU only)	500 MtCO _{2e} (17.4%) below BAU in 2030 (FOLU only)
	Conditional	692 MtCO _{2e} (24.1%) below BAU in 2030 (FOLU only)	729 MtCO _{2e} (25.4%) below BAU in 2030 (FOLU only)
Industrial Sector		see below, diff. scenarios	see below, diff. scenarios
	Unconditional	3 MtCO _{2e} (0.1%) below BAU in 2030	7 MtCO _{2e} (0.2%) below BAU in 2030
	Conditional	3.25 MtCO _{2e} (0.11%) below BAU in 2030	9 MtCO _{2e} (0.3%) below BAU in 2030
Waste Sector		see below, diff. scenarios	see below, diff. scenarios
	Unconditional	11 MtCO _{2e} (0.38%) below BAU in 2030	40 MtCO _{2e} (1.4%) below BAU in 2030
	Conditional	40 MtCO _{2e} (0.1%) below BAU in 2030	43.5 MtCO _{2e} (1.5%) below BAU in 2030

Note: Indonesia's conditional targets represent an alternative scenario, not an addition to unconditional targets. CM2 (conditional scenario) involves making Indonesia a rice-exporting country by 2030.

Indonesia: Mitigation NDCs

[\(View NDC\)](#)



General Overview		Scope		Energy/Forestry		Level of Ambition					
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Halting investment in unabated coal by 2030		
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs				Hydro		Y	Specific measures to enforce
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y			Wind	Y	Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector	Y		General Budget/Cost	Y			Solar	Y		Specific measures to enforce
	Carbon-Neutral/Net Zero Target Year		Budget/Cost for Specific Actions		Biomass			Y	Req. new buildings to be near 0-energy by 2020		
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y			Other Biofuel		Y	Specific measures to enforce
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y			Geothermal	Y	Expanding forest cover by 2030	
	Updated NDC with More Ambitious Targets			Agriculture	Y			Nuclear			Quantitative forestry targets
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y			Natural Gas		Reducing food waste and loss	Y
	Market mechanisms			Waste	Y			Quantifiable Renewable Energy Targets	Y		Specific measures to support
Non-market mechanisms		All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget		Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		Greenhouse Gasses	CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%				
Other	MRV System		Y	CH4 (methane)	Y	Specific Actions			RE target is < 47% / unspecified %	Y	
	Public NDC Tracking/Reporting System			N2O (nitrous oxide)	Y	Quantifiable Forestry Targets	Y	No RE share target specified			
	Stakeholder Consultation Arrangements		Y	HFC (hydrofluorocarbons)			Specific Forestry Actions?	Y	Quantifiable Phase-Out Period for Fossil Fuels	Y	
	Formal System for Future Consult.		PFC (perfluorocarbons)		Forest Cover Target (% or ha)		Coal	Y			
	NDC Expresses Financial Intent	Y	SF6 (sulfur hexafluoride)		Reduction of Deforestation	Y	Gas	Y			
	Mitigation Co-Benefits from Other Actions	Y	NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation	Y	Oil	Y			
	SDG Co-Benefits	Y	All Kyoto Protocol GHGs?		Change of FOLU Policies	Y					
	Community Engagement Mitigation Actions	Y									

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator



Indonesia: Mitigation NDCs + Policies

General Overview		Scope		Energy/Forestry		Level of Ambition								
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Halting investment in unabated coal by 2030	Y				
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs				Hydro		Y	Specific measures to enforce	Y		
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	General Budget/Cost		Y	Wind	Y	Phase-out of fossil-fuel passenger vehicle sales				
	Specific Targets Per Sector	Y					Budget/Cost for Specific Actions	Y	Solar		Y	Specific measures to enforce		
	Carbon-Neutral/Net Zero Target Year	Y	Sectors	Power/Energy	Y		Biomass	Y	Req. new buildings to be near 0-energy by 2020	Y				
	Unquantifiable Mitigation Plans	Y		Industrial Processes and Product Use	Y		Other Biofuel	Y		Specific measures to enforce	Y			
	Transition to Sustainable Economy	Y		Agriculture	Y		Geothermal	Y	Expanding forest cover by 2030	Y				
	Updated NDC with More Ambitious Targets			Forestry and Other Land Use	Y		Nuclear			Quantitative forestry targets	Y			
	Plan to Use Art. 6 Voluntary Cooperation	Market mechanisms		Non-market mechanisms	Qualitative Limits on Article 6 Use?		Waste	Y	Natural Gas	Y	Quantifiable Renewable Energy Targets	Y	Reducing food waste and loss	Y
Target Renewable Energy Share Within 47-65%			RE target is < 47% / unspecified %			Y								
														No RE share target specified
Other	MRV System	Y	Greenhouse Gases	CO2 (carbon dioxide)	Y	Other	Quantifiable Forestry Targets	Y	Phase-Out	Quantifiable Phase-Out Period for Fossil Fuels	Y			
	Public NDC Tracking/Reporting System			CH4 (methane)	Y			Specific Forestry Actions?			Y	Coal	Y	
	Stakeholder Consultation Arrangements	Y		N2O (nitrous oxide)	Y			Forest Cover Target (% or ha)			Y	Gas	Y	
	Formal System for Future Consult.			HFC (hydrofluorocarbons)				Reduction of Deforestation		Y	Oil	Y		
				NDC Expresses Financial Intent	Y			PFC (perfluorocarbons)			Afforestation/Reforestation	Y		
	Mitigation Co-Benefits from Other Actions	Y		SF6 (sulfur hexafluoride)				All Kyoto Protocol GHGs?		Y	Change of FOLU Policies	Y		
	SDG Co-Benefits	Y		NF3 (nitrogen trifluoride - not in K. Protocol)										
	Community Engagement Mitigation Actions	Y												

Key

- Included
- Partial/Under Development/Implied
- Negative indicator

Note on Phase-Outs: Targets for gas usage are increasing. Targets for coal usage are decreasing but ambiguously worded “at least” and coal is identified as a targeted “reliable National energy supply.” Source: [Regulation 79 on National Energy Policy](#).

INDONESIA



New Mitigation Policies

- Presidential Regulation 11/2023: [View](#) (Bahasa only)
- Presidential Regulations no. 112/2022: [View](#) (Bahasa only)
- Green RUPTL 2021-2030: [View PDF](#) (Bahasa only)

INDONESIA



Mitigation Policies Cont'd

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Regulations 12/2017, 50/2017, 35/2018, 4/2020 on the utilisation of Renewable Energy for the Provision of Power (2017, last changed 2020): [View](#)
- National Medium Term Development Plan 2020-2024 (RPJMN 2020-2024) (2015, last changed 2020): [View](#)
- Regulation 1/2012 amending reg. 15/2010 - Priority Development Renewable Energy Projects (2020): [View](#) (Indonesian only)
- VISI Indonesia 2045 (2019): [View](#) (Indonesian only)
- Presidential Regulation 55/2019 on electric vehicles (2019): [View](#)
- Presidential Instruction 5/2019 on extension of the forest moratorium (2011, last change 2019): [View](#)

INDONESIA



Mitigation Policies Cont'd

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Regulation No. 70/2017 Implementing REDD+ and Sustainable Management of Forests (2017): [View](#) (Indonesian only)
- Government Regulation 57/2016, amending regulation 71/2014 concerning protection and management of peat ecosystems (2016): [View](#) (Indonesian only)
- Regulation No.79 on National Energy Policy (2014): [View](#)
- Regulation No.17/2014 on Electricity Purchase from Geothermal (2014): [View](#)
- Regulation No.11/2013 and No.36/2009 about procedures for Licensing Activities for Absorbing and Restoring Carbon in Forests (2009): [View](#) (Indonesian only)
- Regulation No.20/2012 about Forest Carbon Management (2012): [View](#) (Indonesian only)
- President Regulation 71/2011 on the Implementation of a National Greenhouse Gases Inventory: [View](#) (Indonesian only)

INDONESIA



Mitigation Policies Cont'd

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- P. 30/Menhut-II/2009 On the implementation of REDD activities (2009): [View](#)
- Presidential regulation 70/2009 concerning Energy Conservation (2009): [View](#) (Indonesian only)
- Minister of Forestry Regulation P.68/Menhut-II/2008 on Implementation of Demonstration Activities Reducing Carbon Emissions from Deforestation and Forest Degradation (2008): [View](#) (Indonesian only)
- Presidential Instruction 2/2008 - Regulation on Energy and Water Efficiency (2008): [View](#) (Indonesian only)
- Presidential Instruction 1/2006 on Biofuel Development (2006): [View](#) (Indonesian only)
- Regulation 206/2005 Establishing National Committee for Clean Development Mechanism (2005): [View](#) (Indonesian only)

INDONESIA



Outdated Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Decree 62/2013 Regarding a Managing Agency for the Reduction of Emission from Deforestation and Degradation of Forest and Peat lands (2013): [View Info](#) / [View Decree](#)
- Ministerial Regulation 216/2012 Accelerating Development of Geothermal Energy Supply (revised Ministerial Regulation 15/2010) (2012): [View](#)
- Presidential Decree 61/2011, National Action Plan to reduce GHG emissions (RAN-GRK): [View](#) (Indonesian only)
- Ministerial Regulation 15/2010 Re. 10,000 MW Crash Programme (2010): [View](#) (Indonesian only)
- National Action Plan Addressing Climate Change (2007): [View](#)
- Presidential Regulation 5/2006 concerning National Energy Policy (2006): [View](#) (Indonesian only)

INDONESIA



Mitigation Policies: Sector Specific

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Strategic Plan Sustainable Tourism and Green Jobs for Indonesia (2012): [View](#)

INDONESIA



Policies Containing Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Medium Term Development Plan 2020-2024 (RPJMN 2020-2024) (2015, last changed 2020): [View](#)
- Decree 62/2013 Regarding a Managing Agency for the Reduction of Emission from Deforestation and Degradation of Forest and Peat lands (2013): [View Info](#) / [View Decree](#)

[\(View NDC\)](#) Note: The NDC in the UNFCCC's registry was submitted by the Junta. The National Unity Government also submitted an NDC but it is not officially recognized by the UNFCCC.

Myanmar



Asia Pacific Energy Policy Profile

Forest Cover Target by 2030: Maintain 40%
Renewable Energy Share Target by 2030: 39%
Net Zero Target Year: 2040 (from LUCF only)
International Finance Needed: At least 1.209 billion USD and USD 20 million USD per year¹
Climate Action Tracker Rating: Not Available

¹ For Energy and Urban Development sectors. NDC discussed financial support needs for other sectors but did not state specific amounts.

Emissions Targets

TARGET REFERENCE

		First NDC (2017)	Latest NDC (2021)
Implementation Period		by 2030	2021-2030
Total		not included (gathered data not reliable enough)	414.75 MtCO _{2e} reduced/avoided
	Unconditional	-	244.52 MtCO _{2e} reduced/avoided
	Conditional	-	414.75 MtCO _{2e} reduced/avoided
Energy Sector		-	144.04 MtCO _{2e} reduced/avoided
	Unconditional	-	105.24 MtCO _{2e} reduced/avoided
	Conditional	-	144.04 MtCO _{2e} reduced/avoided
Agriculture Sector		-	10.40 MtCO _{2e} reduced/avoided
	Unconditional	-	-
	Conditional	-	10.40 MtCO _{2e} from 2021-2030
AFOLU Sector		-	256.57 MtCO _{2e} from 2021-2030
	Unconditional	-	123.62 MtCO _{2e} from 2021-2030
	Conditional	-	256.57 MtCO _{2e} from 2021-2030
Industrial Sector		-	-
	Unconditional	-	-
	Conditional	-	-
Waste Sector		-	-
	Unconditional	-	-
	Conditional	-	-

Note: No total emissions BAU calculated; only for Energy and AFOLU sectors, which is why targets are not stated in relation to BAU. Conditional values are cumulative (including unconditional portion).

Myanmar: Mitigation NDCs

[\(View NDC\)](#)


General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors		Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs			Hydro	Y		Specific measures to enforce	
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	Y
	Specific Targets Per Sector	Y		General Budget/Cost	Y		Solar	Y		Specific measures to enforce	
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions	Y	Biomass			Req. new buildings to be near 0-energy by 2020		Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel			Specific measures to enforce	
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use			Geothermal			Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets	Y		Agriculture	Y		Nuclear			Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas	Y		Reducing food waste and loss	
	Market mechanisms	Y		Waste			Quantifiable Renewable Energy Targets	Y		Specific measures to support	
Non-market mechanisms		All 2006 IPCC Guidelines Sectors?			Renewable Energy Budget	Y	Quantifiable target(s)				
Other	Qualitative Limits on Article 6 Use?		Greenhouse Gasses	CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%	Y		
	MRV System	Y		CH4 (methane)		Specific Actions	Y	RE target is < 47% / unspecified %			
	Public NDC Tracking/Reporting System	Y		N2O (nitrous oxide)		Quantifiable Forestry Targets	Y	No RE share target specified			
	Stakeholder Consultation Arrangements	Y		HFC (hydrofluorocarbons)		Specific Forestry Actions?	Y	Quantifiable Phase-Out Period for Fossil Fuels	Y		
	Formal System for Future Consult.	Y		PFC (perfluorocarbons)		Forest Cover Target (% or ha)	Y	Coal	Y		
	NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)		Reduction of Deforestation	Y	Gas			
	Mitigation Co-Benefits from Other Actions	Y		NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation	Y	Oil			
	SDG Co-Benefits	Y		All Kyoto Protocol GHGs?		Change of FOLU Policies	Y				
	Community Engagement Mitigation Actions	Y									

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator

Note: Unconditional renewable energy targets reflect an increase in gas usage and decrease of coal, hydro and overall renewable energy. It seems Myanmar intends to transition to greater reliance on gas. Overall renewable energy usage would only increase under the conditional scenario.



Myanmar: Mitigation NDCs + Policies

General Overview		Scope		Energy/Forestry		Level of Ambition			
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Energy	Discussed Renewable Energy	Y	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs		Hydro	Y		Specific measures to enforce
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance		Wind	Y	Phase-out of fossil-fuel passenger vehicle sales	Y
	Specific Targets Per Sector	Y		General Budget/Cost		Solar	Y		Specific measures to enforce
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions	Biomass		Y	Req. new buildings to be near 0-energy by 2020	Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy		Other Biofuel		Y	Specific measures to enforce
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use		Geothermal	Y	Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets	Y		Agriculture		Nuclear	Y		Quantitative forestry targets
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use		Natural Gas	Y	Reducing food waste and loss	
				Waste		Quantifiable Renewable Energy Targets	Y		Specific measures to support
Market mechanisms				Y	All 2006 IPCC Guidelines Sectors?		Renewable Energy Budget	Y	Quantifiable target(s)
Non-market mechanisms				CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%	Y
Qualitative Limits on Article 6 Use?		Greenhouse Gasses	CH4 (methane)	Specific Actions	Y	RE target is < 47% / unspecified %			
Other	Y		N2O (nitrous oxide)	Other	Quantifiable Forestry Targets	Y	Quantifiable Phase-Out Period for Fossil Fuels	Coal	
			HFC (hydrofluorocarbons)			Specific Forestry Actions?		Y	Gas
			PFC (perfluorocarbons)		Forest Cover Target (% or ha)	Y	Oil		
		SF6 (sulfur hexafluoride)	Reduction of Deforestation		Y				
		NF3 (nitrogen trifluoride - not in K. Protocol)	Afforestation/Reforestation		Y				
		All Kyoto Protocol GHGs?			Y				
		MRV System	Y			Change of FOLU Policies	Y		
		Public NDC Tracking/Reporting System	Y						
Stakeholder Consultation Arrangements	Y								
		Formal System for Future Consult.	Y						
NDC Expresses Financial Intent	Y								
Mitigation Co-Benefits from Other Actions	Y								
SDG Co-Benefits	Y								
Community Engagement Mitigation Actions	Y								

Key

Included

Partial/Under Development/Implied

Negative indicator



Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Myanmar National Environmental Policy (2020): [View](#) / [View PDF](#)
- Myanmar Climate Change Master Plan 2018-2030 (2019): [View](#) / [View PDF](#)
- Myanmar National Climate Change Policy (2019): [View](#)
- Climate Change Strategy 2018-2030 (2019): [View](#) / [View PDF](#)
- Myanmar Sustainable Development Plan 2018-2030 (2018): [View](#)
- Climate Change Strategy and Action Plan (MCCSAP) 2016-2030 (2017): [View](#)
- Myanmar Energy Master Plan 2015 (2015): [View](#)

MYANMAR



Policies Containing Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

LULUCF Targets:

- National Biodiversity Strategy and Action Plan (2012) (outdated target year of 2020): [View](#)
- National Sustainable Development Strategy (2009): [View](#)

[\(View NDC\)](#)

Philippines



[Asia Pacific Energy Policy Profile](#)

Forest Cover Target by 2030: N/A

Renewable Energy Share Target: 35% by 2030, 50% by 2040 (NREP)

Net Zero Target Year: N/A

International Support Needed: Not Stated

Climate Action Tracker Rating: Not Available

Emissions Targets

TARGET REFERENCE

		First NDC (2021)
Implementation Period		2020-2030
Total		75% below BAU from 2020-2030
	Unconditional	2.71%
	Conditional	72.29%
Energy Sector		-
	Unconditional	-
	Conditional	-
Agriculture Sector		-
	Unconditional	-
	Conditional	-
AFOLU Sector		-
	Unconditional	-
	Conditional	-
Industrial Sector		-
	Unconditional	-
	Conditional	-
Waste Sector		-
	Unconditional	-
	Conditional	-

Philippines: Mitigation NDCs

[\(View NDC\)](#)



General Overview		Scope		Energy/Forestry		Level of Ambition			
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Energy	Discussed Renewable Energy	Halting investment in unabated coal by 2030		
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs				Hydro	Specific measures to enforce
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance				Wind	Phase-out of fossil-fuel passenger vehicle sales
	Specific Targets Per Sector		General Budget/Cost	Solar		Specific measures to enforce			
	Carbon-Neutral/Net Zero Target Year		Budget/Cost for Specific Actions	Biomass		Req. new buildings to be near 0-energy by 2020			
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy		Other Biofuel	Specific measures to enforce		
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use		Geothermal	Expanding forest cover by 2030		
	Updated NDC with More Ambitious Targets			Agriculture		Nuclear	Quantitative forestry targets		
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use		Natural Gas	Reducing food waste and loss		
	Market mechanisms	Y		Waste		Quantifiable Renewable Energy Targets	Specific measures to support		
Non-market mechanisms	Y	All 2006 IPCC Guidelines Sectors?		Quantifiable Energy Efficiency Targets	Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		CO2 (carbon dioxide)		Specific Actions	Target Renewable Energy Share Within 47-65%				
Other	MRV System	Y	Greenhouse Gasses	CH4 (methane)	Other	Quantifiable Forestry Targets	RE target is < 47% / unspecified %		
	Public NDC Tracking/Reporting System			N2O (nitrous oxide)			Specific Forestry Actions?	No RE share target specified	
	Stakeholder Consultation Arrangements	Y		HFC (hydrofluorocarbons)			Forest Cover Target (% or ha)	Quantifiable Phase-Out Period for Fossil Fuels	
	Formal System for Future Consult.	Y		PFC (perfluorocarbons)		Reduction of Deforestation	Coal		
	NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)		Afforestation/Reforestation	Gas		
	Mitigation Co-Benefits from Other Actions	Y		NF3 (nitrogen trifluoride - not in K. Protocol)		Change of FOLU Policies	Oil		
	SDG Co-Benefits	Y		All Kyoto Protocol GHGs?					
Community Engagement Mitigation Actions									

Key

- Included in NDC
- Partial/Under Development/Implied
- Negative indicator



Philippines: Mitigation NDCs + Policies

General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	Y
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs			Hydro	Y		Specific measures to enforce	Y
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	Y
	Specific Targets Per Sector		General Budget/Cost	Y	Solar		Y	Specific measures to enforce		Y	
	Carbon-Neutral/Net Zero Target Year		Budget/Cost for Specific Actions	Y	Biomass		Y	Req. new buildings to be near 0-energy by 2020		Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel	Y		Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal	Y		Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets			Agriculture	Y		Nuclear	Y		Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas	Y		Reducing food waste and loss	
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets	Y		Specific measures to support	
Non-market mechanisms	Y	All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget	Y	Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		Greenhouse Gases		CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%			
Other	MRV System		Y	CH4 (methane)	Y	Specific Actions	Y	RE target is < 47% / unspecified %			
	Public NDC Tracking/Reporting System		Y	N2O (nitrous oxide)	Y	Quantifiable Forestry Targets	Y	No RE share target specified	Y		
	Stakeholder Consultation Arrangements	Y	HFC (hydrofluorocarbons)	Y	Specific Forestry Actions?	Y	Phase-Out	Quantifiable Phase-Out Period for Fossil Fuels			
		Formal System for Future Consult.	Y	PFC (perfluorocarbons)	Y	Forest Cover Target (% or ha)		Y	Coal		
	NDC Expresses Financial Intent	Y	SF6 (sulfur hexafluoride)		Reduction of Deforestation	Y		Gas			
	Mitigation Co-Benefits from Other Actions	Y	NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation	Y	Oil				
	SDG Co-Benefits	Y	All Kyoto Protocol GHGs?		Change of FOLU Policies	Y					
	Community Engagement Mitigation Actions	Y									

Key

Included

Partial/Under Development/Implied

Negative indicator

Note: Energy mix targets, discussion, and investment needs available in [Philippine Energy Plan](#).



Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Sustainable Finance Policy Framework of 2020 (2020): [View](#) / [View PDF](#)
- Energy Efficiency & Conservation Act (2019): [View](#) / [More Info](#) / [PDF](#)
- Executive Orders no. 43 and no. 24 on the Cabinet Cluster on Climate Change Adaptation and Mitigation (2017): [View](#)
- Philippine Energy Plan 2018-2040 (2016): [View](#) / [View PDF](#)
- Philippine Green Building Code (P.D. 1096): [View](#)
- Executive Order No. 174, Institutionalizing Philippine Greenhouse Gas Inventory Management and Reporting System (2014): [View](#)
- Energy Efficiency Roadmap 2014-2030 (2013): [View](#)
- National Climate Change Action Plan (2011): [View](#) / [View PDF](#)
- Framework Strategy on Climate Change (2010): [View](#)

PHILIPPINES



Mitigation Policies Cont'd

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Executive Order No. 881, Authorizing the Climate Change Commission to Coordinate Existing Climate Change Initiatives, REDD+, and Other Similar Mechanisms (2010): [View](#)
- Executive Orders 774/2008 and 785/2009 on the Presidential Task Force on Climate Change (2008): [View](#)
- Administrative Order No. 220 Creating an Inter-Agency Committee on Climate Change (1991): [View](#)



Mitigation Policies: Sector Specific

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Renewable Energy Programme 2020-2040: [View](#) / [PDF](#)
- Moratorium on endorsements for greenfield coal power plants (2020): [View](#)
- Enhanced National Greening Program (Executive Order 26 of 2011 and Executive Order 193 of 2015) (2019): [View](#) / [E.O. No. 26 PDF](#) / [E.O. No. 193 PDF](#)
- Master Plan for Climate Resilient Forestry Development (2016): [View](#)
- Executive Order 472, institutionalising the Committee on Fuel Conservation and Efficiency in Road Transport (1998): [View](#)
- Executive Order 123, institutionalising the Committee on Power Conservation and Demand Management (1993): [View](#)

PHILIPPINES



Outdated Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Security Policy 2017-2022 and National Security Strategy (2018): [View](#) / [Strategy PDF](#) / [Policy PDF](#)
- Philippine Development Plan 2017-2022 (2017): [View](#)

PHILIPPINES



Outdated Mitigation Policies: Sector Specific

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Administrative Order 110, directing the Institutionalization of the Government Energy Management Program (2006): [View](#)

PHILIPPINES



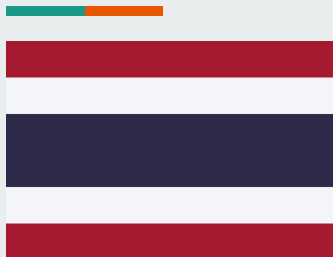
Policies Containing Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Administrative Order 110, directing the Institutionalization of the Government Energy Management Program (2006): [View](#)

[\(View NDC\)](#)

Thailand



[Asia Pacific Energy Policy Profile](#)

Forest Cover Target by 2030: N/A

Renewable Energy Share Target: 30% by 2036 (AEDP); the proportion of renewable energy in the final energy consumption increases by no less than 24% by 2027 (13th National Economic and Social Development Plan)

Net Zero Target Year: carbon neutral by 2050; net zero GHG by 2065 (2022 NDC)

International Support Needed: Not Stated

Climate Action Tracker Rating: **Critically Insufficient**

Emissions Targets

TARGET REFERENCE

		First NDC (2016)	Latest NDC (2022)
Implementation Period		2021-2030	2022-2030
Total		20% below BAU by 2030	40% below BAU by 2030
	Unconditional	20%	30%
	Conditional	5% (additional contribution)	10% (additional contribution)
Energy Sector		-	-
	Unconditional	-	-
	Conditional	-	-
Agriculture Sector		-	-
	Unconditional	-	-
	Conditional	-	-
AFOLU Sector		-	-
	Unconditional	-	-
	Conditional	-	-
Industrial Sector		-	-
	Unconditional	-	-
	Conditional	-	-
Waste Sector		-	-
	Unconditional	-	-
	Conditional	-	-

Thailand: Mitigation NDCs

[\(View NDC\)](#)



General Overview			Scope		Energy/Forestry		Level of Ambition				
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors		Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SRI.5 Pathway	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y		Hydro			Specific measures to enforce	
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance			Wind			Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector		General Budget/Cost		Solar			Specific measures to enforce			
	Carbon-Neutral/Net Zero Target Year		Budget/Cost for Specific Actions		Biomass		Y	Req. new buildings to be near 0-energy by 2020			
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel			Specific measures to enforce	
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal			Expanding forest cover by 2030	
	Updated NDC with More Ambitious Targets			Agriculture	Y		Nuclear			Quantitative forestry targets	
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use			Natural Gas			Reducing food waste and loss	
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets			Specific measures to support	
Non-market mechanisms		All 2006 IPCC Guidelines Sectors?			Renewable Energy Budget		Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		Greenhouse Gasses		CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets		Target Renewable Energy Share Within 47-65%			
Other	MRV System		Y	CH4 (methane)	Y	Specific Actions		RE target is < 47% / unspecified %			
	Public NDC Tracking/Reporting System			N2O (nitrous oxide)	Y	Quantifiable Forestry Targets		No RE share target specified			
	Stakeholder Consultation Arrangements	Y	HFC (hydrofluorocarbons)	Y	Specific Forestry Actions?		Quantifiable Phase-Out Period for Fossil Fuels				
	Formal System for Future Consult.		PFC (perfluorocarbons)	Y	Forest Cover Target (% or ha)		Coal				
	NDC Expresses Financial Intent	Y	SF6 (sulfur hexafluoride)	Y	Reduction of Deforestation		Gas				
	Mitigation Co-Benefits from Other Actions		NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation		Oil				
	SDG Co-Benefits	Y	All Kyoto Protocol GHGs?	Y	Change of FOLU Policies						
	Community Engagement Mitigation Actions	Y									

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator



Thailand: Mitigation NDCs + Policies

General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors		Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y		Hydro	Y		Specific measures to enforce	
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance			Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector			General Budget/Cost			Solar	Y		Specific measures to enforce	
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions		Biomass		Y	Req. new buildings to be near 0-energy by 2020		Y	
	Unquantifiable Mitigation Plans	Y	Power/Energy	Y	Other Biofuel		Y	Specific measures to enforce		Y	
	Transition to Sustainable Economy	Y	Industrial Processes and Product Use	Y	Geothermal		Y	Expanding forest cover by 2030		Y	
	Updated NDC with More Ambitious Targets		Agriculture	Y	Nuclear		Y	Quantitative forestry targets			
	Plan to Use Art. 6 Voluntary Cooperation	Y	Forestry and Other Land Use		Natural Gas		Y	Reducing food waste and loss			
	Market mechanisms	Y	Waste	Y	Quantifiable Renewable Energy Targets		Y	Specific measures to support			
Non-market mechanisms		All 2006 IPCC Guidelines Sectors?		Renewable Energy Budget		Quantifiable target(s)					
Qualitative Limits on Article 6 Use?		Greenhouse Gasses	CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%				
MRV System	Y		CH4 (methane)	Y	Specific Actions	Y	RE target is < 47% / unspecified %	Y			
Public NDC Tracking/Reporting System			N2O (nitrous oxide)	Y	Quantifiable Forestry Targets		No RE share target specified				
Stakeholder Consultation Arrangements	Y		HFC (hydrofluorocarbons)	Y	Specific Forestry Actions?	Y	Quantifiable Phase-Out Period for Fossil Fuels	Y			
Formal System for Future Consult.			PFC (perfluorocarbons)	Y	Forest Cover Target (% or ha)		Coal				
NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)	Y	Reduction of Deforestation	Y	Gas	Y			
Mitigation Co-Benefits from Other Actions			NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation	Y	Oil	Y			
SDG Co-Benefits	Y	All Kyoto Protocol GHGs?	Y	Change of FOLU Policies							
Community Engagement Mitigation Actions	Y										

Key

Included

Partial/Under Development/Implied

Negative indicator

Note: The Climate Change Master Plan is only in Thai and difficult to keyword-search. It's possible some information has been missed in the review, but the author of this document did their best.



Updated Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- 13th National Economic and Social Development Plan 2023-2027: [PDF](#)
- National Energy Plan Framework 2022
- Climate Change Master Plan (CCMP) 2015-2050 (2016): [View](#) (Thai only)
- Power Development Plan B.E. 2561-2580 (2018-2037): [View](#) / [PDF](#)
- Smart Grid Development Master Plan 2015-2036 (2015): [View](#) / [Info](#) / [Policy](#) (TH) / [Pres](#) (EN)
- Energy Efficiency Plan B.E. 2561-2580 (2018-2037): [View](#)
- Alternative Energy Development Plan 2018-2037 (2018): [View](#) / [PDF](#) (Th only) / [IRENA Report](#)



Old Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Strategy 2018-2037 (2018): [View](#) / [PDF](#)
- Thailand Energy Efficiency Development Plan 2015-2036 (2015): [View](#) / [Discussed in PDP](#)
- Alternative Energy Development Plan 2015-2036 (2015): [View](#) / [Discussed in PDP](#)
- Thailand Power Development Plan 2015-2036 (2015): [View](#) / [PDF](#)
- Decree to establish a Greenhouse Gas Management Organization B.E. 2550 (2007): [View](#)

THAILAND



Mitigation Policies: Sector Specific

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Thailand Oil Plan 2015-2036 (2015): [View](#)
- Environmentally Sustainable Transport System Plan 2013-2030 (2013): [View](#) / [Presentation](#)
- National Industrial Development Master Plan 2012-2031 (2012): [View](#) / [View PDF](#) (Thai only)
- Waste Management Roadmap: [View](#) / [PDF](#)



THAILAND

Lapsed Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Strategy for Climate Change in Agriculture 2017-2021 (2017): [View](#) / [Presentation](#)
- The 12th National Economic and Social Development Plan 2017-2021 (2017): [View](#)
- Alternative Energy Development Plan 2012-2021 (2011): [View](#)



THAILAND

Mitigation Policies with Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Energy Conservation Promotion Act B.E. 2535 and B.E. 2550 (2019): [View](#)
- Thailand Power Development Plan 2015-2036 (2015): [View](#) / [View PDF](#)

[\(View NDC\)](#)

Viet Nam



[Asia Pacific Energy Policy Profile](#)

Forest Cover Target by 2030: 45%

Renewable Energy Share Target: 33% by 2030, 55% by 2050 (Decision No. 896/QD-TTg)

Net Zero Target Year: 2050 (NDC)

International Support Needed: Not Stated¹

Climate Action Tracker Rating: **Critically Insufficient**

¹ NDC discusses finance and sources of investment but does not state a specific amount needed from the international community to meet conditional goals.

Emissions Targets

[TARGET REFERENCE](#)

		Previous NDC (2020)	Latest NDC (2022)
Implementation Period		2021-2030	2022-2030
Total		250.8 (27%) below BAU	403.7 (53.5%) below BAU
	Unconditional	83.9 MtCO ₂ e (9%) below BAU	146.3 MtCO ₂ e (15.8%) below BAU
	Conditional	250.8 MtCO ₂ e (27%) below BAU	403.7 MtCO ₂ e (53.5%) below BAU
Energy Sector		see below	see below
	Unconditional	51.5 MtCO ₂ e (5.5%) below BAU by 2030	64.8 MtCO ₂ e (7%) below BAU by 2030
	Conditional	155.8 MtCO ₂ e (16.7%) below BAU	227 MtCO ₂ e (24.4%) below BAU
Agriculture Sector		see below	see below
	Unconditional	6.8 MtCO ₂ e (0.7%) below BAU	12.4 MtCO ₂ e (1.3%) below BAU
	Conditional	32.6 MtCO ₂ e (3.5%) below BAU	50.9 MtCO ₂ e (5.5%) below BAU
AFOLU Sector		see below	see below
	Unconditional	9.3 MtCO ₂ e (1%) below BAU (FOLU only)	32.5 MtCO ₂ e (3.5%) below BAU (LULUCF)
	Conditional	21.2 MtCO ₂ e (2.3%) below BAU (FOLU only)	46.6 MtCO ₂ e (5%) below BAU (LULUCF)
Industrial Sector		see below	see below
	Unconditional	7.2 MtCO ₂ e (0.8%) below BAU	27.9 MtCO ₂ e (3% below BAU)
	Conditional	8 MtCO ₂ e (0.9%) below BAU	49.8 MtCO ₂ e (5.4%) below BAU
Waste Sector		see below	see below
	Unconditional	9.1 MtCO ₂ e (1.0%) below BAU	8.7 MtCO ₂ e (1.0%) below BAU
	Conditional	33.2 MtCO ₂ e (3.6%) below BAU	29.4 MtCO ₂ e (3.2%) below BAU

Note: Many of Viet Nam's laws/policies contain targets, so there is no slide listing the policies with targets. Check the green "TARGET REFERENCE" link at the top right of this page for a listing.

Viet Nam: Mitigation NDCs

[\(View NDC\)](#)



General Overview		Scope		Energy/Forestry		Level of Ambition								
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Halting investment in unabated coal by 2030					
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs				Hydro		Y	Specific measures to enforce			
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	General Budget/Cost			Y	Wind	Y	Phase-out of fossil-fuel passenger vehicle sales	Specific measures to enforce		
	Specific Targets Per Sector	Y						Budget/Cost for Specific Actions		Solar		Y	Req. new buildings to be near 0-energy by 2020	
	Carbon-Neutral/Net Zero Target Year			Sectors	Power/Energy			Y	Biomass	Y	Specific measures to enforce			
	Unquantifiable Mitigation Plans	Y	Industrial Processes and Product Use		Y			Other Biofuel		Geothermal		Expanding forest cover by 2030	Y	
	Transition to Sustainable Economy	Y	Agriculture		Y			Nuclear		Natural Gas		Quantitative forestry targets	Y	
	Updated NDC with More Ambitious Targets		Forestry and Other Land Use		Y			Quantifiable Renewable Energy Targets		Renewable Energy Budget	Y	Reducing food waste and loss	Specific measures to support	
	Plan to Use Art. 6 Voluntary Cooperation	Y	Waste		Y				Quantifiable Energy Efficiency Targets				Specific Actions	Y
	Market mechanisms	Y	All 2006 IPCC Guidelines Sectors?		Y			Quantifiable Forestry Targets		Y	Specific Forestry Actions?	Y		Target Renewable Energy Share Within 47-65%
Non-market mechanisms	Y	CO2 (carbon dioxide)	Y	Other	Forest Cover Target (% or ha)	Y	Reduction of Deforestation		Y	RE target is < 47% / unspecified %				
Qualitative Limits on Article 6 Use?		CH4 (methane)	Y			Change of FOLU Policies		Y	Afforestation/Reforestation	Y	No RE share target specified	Y		
Other	MRV System	Y	Greenhouse Gasses	N2O (nitrous oxide)	Y		Phase-Out	Quantifiable Phase-Out Period for Fossil Fuels		Y	Coal			
	Public NDC Tracking/Reporting System			HFC (hydrofluorocarbons)	Y	Gas								
	Stakeholder Consultation Arrangements	Y		PFC (perfluorocarbons)		Oil								
	Formal System for Future Consult.	Y		SF6 (sulfur hexafluoride)										
	NDC Expresses Financial Intent	Y		NF3 (nitrogen trifluoride - not in K. Protocol)										
	Mitigation Co-Benefits from Other Actions	Y		All Kyoto Protocol GHGs?										
	SDG Co-Benefits	Y												
Community Engagement Mitigation Actions	Y													

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator



Viet Nam: Mitigation NDCs + Policies

General Overview		Scope		Energy/Forestry		Level of Ambition					
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs				Hydro		Y	Specific measures to enforce
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance				Wind	Y	Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector	Y		General Budget/Cost	Y			Solar	Y	Specific measures to enforce	
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions		Biomass			Y	Req. new buildings to be near 0-energy by 2020	Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y			Other Biofuel	Y	Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y			Geothermal	Y	Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets			Agriculture	Y			Nuclear	Y	Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y			Natural Gas	Y	Reducing food waste and loss	
	Market mechanisms	Y		Waste	Y			Quantifiable Renewable Energy Targets	Y	Specific measures to support	
Non-market mechanisms	Y	All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget	Y	Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		Greenhouse Gasses	CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%				
Other	MRV System		Y	CH4 (methane)	Y	Specific Actions	Y	RE target is < 47% / unspecified %	Y		
	Public NDC Tracking/Reporting System			N2O (nitrous oxide)	Y	Quantifiable Forestry Targets	Y	No RE share target specified			
	Stakeholder Consultation Arrangements		Y	HFC (hydrofluorocarbons)	Y	Specific Forestry Actions?	Y	Quantifiable Phase-Out Period for Fossil Fuels	Y		
			Formal System for Future Consult.	Y	PFC (perfluorocarbons)		Forest Cover Target (% or ha)		Y	Coal	
	NDC Expresses Financial Intent		Y	SF6 (sulfur hexafluoride)		Reduction of Deforestation	Y	Gas	Y		
	Mitigation Co-Benefits from Other Actions	Y	NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation	Y	Oil				
	SDG Co-Benefits	Y	All Kyoto Protocol GHGs?		Change of FOLU Policies	Y					
	Community Engagement Mitigation Actions	Y				Y					

Key

Included

Partial/Under Development/Implied

Negative indicator



Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Socio-economic Development Plan for 2021-2025 (2021): [View](#) (links not loading on vietnam.gov site when accessed from U.S.)
- Vietnam's Green Growth Strategy for 2021-2030, vision 2050 and related PM Decisions (2012, last change 2021): [View](#)
- Circular No. 25/2020/TT-BCT on the implementation of plans for economical and efficient use of energy (2020): [View](#)
- Decision 622/QĐ-TTg approving the National Action Plan for the Implementation of the 2030 Agenda for Sustainable Development (2017): [View](#)



Mitigation Strategies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Viet Nam Renewable Energy Development Strategy to 2030 with a vision to 2050 (2015): [View PDF](#)
- Viet Nam Transport Development Strategy to 2020 with a vision to 2050 (2013): [Adjustments 2015](#)
 - World Bank Report on Transport Sector: [View Info](#) / [View PDF](#)
- PM Decision 1775/2012 on GHG Emission and Carbon Credit Management (2012): [View](#)
- The National Climate Change Strategy (2011): [View](#)
- Viet Nam Forestry Development Strategy 2006-2020 (2007): [View PDF](#)
- National Energy Development Strategy to 2020 with a vision to 2050 (2007): [View](#) / [More Info](#)



Mitigation Policies: Renewable Energy

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Decision No. 896/QD-TTg on approving the National Strategy for Climate Change until 2050 (2022): [View](#)
- Decision 11/2017/QD-TTg of the Prime Minister on the mechanism for encouragement of the development of solar power projects and Decision 13/2020/QD-TTg setting out a legal framework for the next generation of solar power projects (2017, last change 2020): [View](#)
- Resolution No 55NQ/TW on the orientation of the National Energy Development Strategy of Vietnam to 2030 (2020): [View](#)
- Decisions No. 37/2011/QD-TTg and 39/2018/QD-TTg on the support for Wind Power Projects (2011): [View](#)



Mitigation Policies: Renewable Energy Cont'd

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Decision 428/QD-TTg approving the Revised National Power Development Master Plan for the 2011-2020 Period with the Vision to 2030 (2016): [View](#)
- Regulation No. 18/2012 Guidelines for Managing Geothermal Energy (2012): [View](#)
- Decision 177/2007/QD-TTg approving the Scheme on Development of Biofuels up to 2015, with a Vision to 2025 (2011): [View](#)
- Decision No. 1855/QD/TTg approving the National Energy Development Strategy of Vietnam for the period up to 2020 with outlook to 2050 (2007): [View](#) / [More Info](#)



Mitigation Policies: Sector Specific

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Urban Development of Vietnam Responding to Climate Change 2020 scheme and Urban Green Growth Development Plan to 2030 (2013, last change 2018): [View](#)
- Decision No. 799/QD-TTg approving the national REDD action programme and Decision 419/QD-TTg (2012): [View](#)



Outdated Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- 2016-2020 Science and Technology Programme for Climate Change Response, Natural Resources and Environmental Management (2016): Mentioned in NDC but documentation not available
- PM Decision 2044/2016 approving the Climate Change Policy Framework (2016): [View](#)
- Decree 119/2016/ND-CP and PM Decision 120/2015 on Sustainable Management, Protection and Development of Coastal Forests (2015): [View](#)
- PM Decision 811/2015 introducing the Climate Change Action Plan for Construction 2016-2020 (2016): [View](#)
- PM Decision No. 1474/2012 Issuing the National Action Plan on Climate Change 2012-2020 (2012): [View](#)
- National Target Program on Efficient Use and Saving Energy (EUSE) (2006): [View](#)



Outdated Mitigation Policies: Sector Specific

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Decree 119/2016/ND-CP and PM Decision 120/2015 on Sustainable Management, Protection and Development of Coastal Forests (2015): [View](#)
- PM Decision 811/2015 introducing the Climate Change Action Plan for Construction 2016-2020 (2016): [View](#)



VIET NAM

Mitigation Laws (Mentioned in NDC)

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Law on Energy Efficiency (2011): [View](#)
- Law on Water Resources (2012): [View](#)
- Law on Environmental Protection (2014): [Climate-Laws](#) / [Ecolex](#)
- Forestry Law (2017): mentioned in NDC but can't locate documentation

SECTION V

South Asia Country Profiles

[\(View NDC\)](#)

Bangladesh



[Asia Pacific Energy Policy Profile](#)

Forest Cover Target by 2030: 24%

RE Target by 2030: 911.8-4114.3 MW of new RE projects (NDC); 40% RE by 2041 ([source](#))

Net Zero Target Year: N/A ([source](#))

Mitigation Finance Needed: ≥ 143,728.48 million USD¹

Climate Action Tracker Rating: Not Available

¹ For Energy, AFOLU, and Waste sectors. Not specified how much of this finance needs to come from international support.

Emissions Targets

TARGET REFERENCE

		First NDC (2016)	Latest NDC (2021)
Implementation Period		2020-2030	1 Jan 2021 - 31 Dec 2030
Total		36 MtCO _{2e} (15%) below BAU in 2030	89.47 MtCO _{2e} (21.85%) below BAU
	Unconditional	12 MtCO _{2e} (5%) below BAU in 2030	27.56 MtCO _{2e} (6.73%) below BAU
	Conditional	24 MtCO _{2e} (10%) below BAU in 2030	61.9 MtCO _{2e} (15.12%) below BAU
Energy Sector		-	85.98 MtCO _{2e} (27.51%) below BAU in 2030
	Unconditional	5 MtCO _{2e} (5%) below BAU in 2030	26.31 MtCO _{2e} (8.41%) below BAU
	Conditional	15 MtCO _{2e} (18%) below BAU in 2030	59.71 MtCO _{2e} (19.10%) below BAU
Agriculture Sector		-	1.04 MtCO _{2e} (1.90%) below BAU (incl. livestock)
	Unconditional	-	0.64 MtCO _{2e} (1.17%) below BAU (incl. livestock)
	Conditional	-	0.4 MtCO _{2e} (0.73%) below BAU (incl. livestock)
AFOLU Sector		-	1.68 MtCO _{2e} (3.05%) below BAU
	Unconditional	-	0.64 MtCO _{2e} (1.16%) below BAU
	Conditional	-	0.4 MtCO _{2e} (0.72%) below BAU
Industrial Sector		-	-
	Unconditional	4 MtCO _{2e} (4%) below BAU In 2030	-
	Conditional	11 MtCO _{2e} (10%) below BAU in 2030	-
Waste Sector		-	2.45 MtCO _{2e} (2.74%) below BAU
	Unconditional	-	0.61 MtCO _{2e} (2.21%) below BAU
	Conditional	-	1.84 MtCO _{2e} (2.97%) below BAU

Note: Conditional targets are in addition to unconditional targets. Unconditional and conditional targets for AFOLU sector don't add up, but the values are taken from the NDC. Unclear which is correct.

Bangladesh: Mitigation NDCs

[\(View NDC\)](#)


General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y		Hydro	Y		Specific measures to enforce	
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector	Y		General Budget/Cost	Y		Solar	Y		Specific measures to enforce	
	Carbon-Neutral/Net Zero Target Year		Budget/Cost for Specific Actions	Y	Biomass		Y	Req. new buildings to be near 0-energy by 2020			
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel	Y		Specific measures to enforce	
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal			Expanding forest cover by 2030	
	Updated NDC with More Ambitious Targets	Y		Agriculture	Y		Nuclear			Quantitative forestry targets	
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas			Reducing food waste and loss	
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets	Y		Specific measures to support	
Non-market mechanisms	Y	All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget	Y	Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		Greenhouse Gases	CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%				
MRV System	Y		CH4 (methane)	Y	Specific Actions	Y	RE target is < 47% / unspecified %				
Public NDC Tracking/Reporting System			N2O (nitrous oxide)	Y	Quantifiable Forestry Targets	Y	No RE share target specified				
Stakeholder Consultation Arrangements	Y		HFC (hydrofluorocarbons)	Y	Specific Forestry Actions?	Y	Quantifiable Phase-Out Period for Fossil Fuels				
Formal System for Future Consult.	Y		PFC (perfluorocarbons)		Forest Cover Target (% or ha)	Y					
NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)		Reduction of Deforestation	Y					
Mitigation Co-Benefits from Other Actions	Y	NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation	Y	Change of FOLU Policies					
SDG Co-Benefits	Y	All Kyoto Protocol GHGs?			Y						
Community Engagement Mitigation Actions					Y						

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator



Bangladesh: Mitigation NDCs + Policies

General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	Y
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y		Hydro	Y		Specific measures to enforce	Y
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	Y
	Specific Targets Per Sector	Y	General Budget/Cost	Y	Solar		Y	Specific measures to enforce		Y	
	Carbon-Neutral/Net Zero Target Year		Budget/Cost for Specific Actions	Y	Biomass		Y	Req. new buildings to be near 0-energy by 2020		Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel	Y		Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal	Y		Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets	Y		Agriculture	Y		Nuclear	Y		Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas	Y		Reducing food waste and loss	
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets	Y		Specific measures to support	
Non-market mechanisms	Y	All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget	Y	Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		Greenhouse Gases		CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%			
Other	MRV System		Y	CH4 (methane)	Y	Specific Actions	Y	RE target is < 47% / unspecified %	Y		
	Public NDC Tracking/Reporting System			N2O (nitrous oxide)	Y	Other	Quantifiable Forestry Targets	Y	No RE share target specified		
	Stakeholder Consultation Arrangements	Y	HFC (hydrofluorocarbons)	Y	Specific Forestry Actions?		Y	Quantifiable Phase-Out Period for Fossil Fuels	Y		
	Formal System for Future Consult.	Y	PFC (perfluorocarbons)		Forest Cover Target (% or ha)		Y	Coal	Y		
	NDC Expresses Financial Intent	Y	SF6 (sulfur hexafluoride)		Reduction of Deforestation		Y	Gas	Y		
	Mitigation Co-Benefits from Other Actions	Y	NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation		Y	Oil	Y		
	SDG Co-Benefits	Y	All Kyoto Protocol GHGs?		Change of FOLU Policies		Y				
	Community Engagement Mitigation Actions	Y									

Key

Included

Partial/Under Development/Implied

Negative indicator

BANGLADESH



Mitigation Policies Under Development

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- The Integrated Energy and Power Master Plan Project in Bangladesh 2021-2024, being developed through cooperation between Japan International Cooperation Agency (JICA) and the Government of Bangladesh: [View Info](#) / [News Highlight](#)



Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Mujib Climate Prosperity Plan up to 2030 (2021): [View](#) / [View PDF](#)
- Bangladesh National Action Plan (NAP) for Reducing Short-Lived Climate Pollutants (2020): [View](#)
- National Action Plan for Clean Cooking, 2020-2030 (2019): [View](#)
- Energy Efficiency and Conservation Master Plan up to 2030 (2015): [View](#)
- Bangladesh Climate Fiscal Framework (CFF) (2014): [View](#) / [View PDF](#)
- Bangladesh Climate Change and Gender Action Plan (2013): [View](#) / [View PDF](#)
- Action Plan for Energy Efficiency and Conservation (2013): [View](#)



Outdated Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Bangladesh Climate Fiscal Framework (CFF) (2014): [View](#) / [View PDF](#)
- National Sustainable Development Strategy (2010-2021): [View](#) / [Official Site](#) / [View PDF](#)
- 500MW Solar Programme 2012-2016 (2013): [View](#)
- 6th Five-Year Plan FY 2011-FY 2015 (2011): [View](#)
- Renewable Energy Policy (2008): [View](#) / [View PDF](#)

BANGLADESH



Mitigation Policies with Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Action Plan for Clean Cooking, 2020-2030 (2019): [View](#)
- Action Plan for Energy Efficiency and Conservation (2013): [View](#)
- 6th Five-Year Plan (FY 2011-FY 2015): [View](#) (Outdated)
- Renewable Energy Policy (2008): [View](#) / [View PDF](#) (Outdated)

[\(View INDC / Updated NDC\)](#)

India



[Asia Pacific Energy Policy Profile](#)

Forest Cover Target: 33% “eventually” (no target date); create additional carbon sink of 2.5-3 billion tonnes of CO2 equivalent through forest cover by 2030

Renewable Energy Share Target: 50% by 2030 (NDC)

Net Zero Target Year: 2070 (NDC)

Mitigation Finance Needed: 834 billion USD¹

Climate Action Tracker Rating: Highly Insufficient

¹ Estimated based on 2011 prices. Not specified how much of this finance needs to come from international support.

Emissions Targets

TARGET REFERENCE

		INDC (2016)	NDC (2022)
Implementation Period		2021-2030	2022-2030
Total		reduction of emissions intensity of GDP by 33-35% by 2020 from 2005 level	reduction of emissions intensity of GDP by 45% by 2030 from 2005 level
	Unconditional	-	-
	Conditional	-	-
Energy Sector		-	-
	Unconditional	-	-
	Conditional	-	-
Agriculture Sector		-	-
	Unconditional	-	-
	Conditional	-	-
AFOLU Sector		2.5-3 billion tonnes CO2-eq carbon sink through forestry by 2030	2.5-3 billion tonnes CO2-eq carbon sink through forestry by 2030
	Unconditional	-	-
	Conditional	-	-
Industrial Sector		-	-
	Unconditional	-	-
	Conditional	-	-
Waste Sector		-	-
	Unconditional	-	-
	Conditional	-	-

India: Mitigation NDCs

[\(View INDC\)](#)



General Overview		Scope		Energy/Forestry		Level of Ambition					
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Halting investment in unabated coal by 2030		
	Unconditional Emissions Targets			Covered All 6 Kyoto Protocol GHGs				Hydro		Y	Specific measures to enforce
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	General Budget/Cost		Y	Wind	Y	Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector						Budget/Cost for Specific Actions		Solar		Y
	Carbon-Neutral/Net Zero Target Year		Sectors	Power/Energy	Y		Biomass	Y	Req. new buildings to be near 0-energy by 2020	Y	
	Unquantifiable Mitigation Plans	Y		Industrial Processes and Product Use	Y		Other Biofuel		Specific measures to enforce	Y	
	Transition to Sustainable Economy	Y		Agriculture	Y		Geothermal		Expanding forest cover by 2030	Y	
	Updated NDC with More Ambitious Targets			Forestry and Other Land Use	Y		Nuclear	Y		Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Market mechanisms			Waste		Y	Natural Gas		Reducing food waste and loss	
		Non-market mechanisms			All 2006 IPCC Guidelines Sectors?		Y	Quantifiable Renewable Energy Targets	Y		Specific measures to support
Qualitative Limits on Article 6 Use?			Greenhouse Gasses	CO2 (carbon dioxide)	Y	Renewable Energy Budget		Quantifiable target(s)			
Other		MRV System			CH4 (methane)		Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%		
	Public NDC Tracking/Reporting System			N2O (nitrous oxide)		Specific Actions	Y	RE target is < 47% / unspecified %		Y	
	Stakeholder Consultation Arrangements	Formal System for Future Consult.			HFC (hydrofluorocarbons)		Quantifiable Forestry Targets	Y	No RE share target specified		
		NDC Expresses Financial Intent	Y	PFC (perfluorocarbons)		Specific Forestry Actions?		Y		Quantifiable Phase-Out Period for Fossil Fuels	
	Mitigation Co-Benefits from Other Actions		Other	SF6 (sulfur hexafluoride)		Forest Cover Target (% or ha)	Y	Coal			
	SDG Co-Benefits	Y		NF3 (nitrogen trifluoride - not in K. Protocol)		Reduction of Deforestation		Gas			
Community Engagement Mitigation Actions	Y	All Kyoto Protocol GHGs?		Afforestation/Reforestation	Y	Oil					
				Change of FOLU Policies							

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator



India: Mitigation NDCs + Policies

General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets			Covered All 6 Kyoto Protocol GHGs			Hydro	Y		Specific measures to enforce	
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector	Y	General Budget/Cost	Y	Solar		Y	Specific measures to enforce			
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions		Biomass		Y	Req. new buildings to be near 0-energy by 2020		Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel	Y		Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal	Y		Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets			Agriculture	Y		Nuclear	Y		Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas	Y		Reducing food waste and loss	
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets	Y		Specific measures to support	
Non-market mechanisms		All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget	Y	Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		CO2 (carbon dioxide)		Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%				
Other	MRV System	Y	Greenhouse Gases	CH4 (methane)		Other	Specific Actions	Y	Phase-Out	RE target is < 47% / unspecified %	Y
	Public NDC Tracking/Reporting System	Y		N2O (nitrous oxide)			Quantifiable Forestry Targets	Y		No RE share target specified	
	Stakeholder Consultation Arrangements	Y		HFC (hydrofluorocarbons)			Specific Forestry Actions?	Y		Quantifiable Phase-Out Period for Fossil Fuels	
	Formal System for Future Consult.	Y		PFC (perfluorocarbons)			Forest Cover Target (% or ha)	Y		Coal	Y
	NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)			Reduction of Deforestation			Gas	
	Mitigation Co-Benefits from Other Actions	Y		NF3 (nitrogen trifluoride - not in K. Protocol)			Afforestation/Reforestation	Y		Oil	
	SDG Co-Benefits	Y		All Kyoto Protocol GHGs?			Change of FOLU Policies				
	Community Engagement Mitigation Actions	Y									

Key

Included

Partial/Under Development/Implied

Negative indicator

INDIA



Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Green Hydrogen / Green Ammonia Policy (2022): [View](#) / [Press Release](#) / [PDF](#)
- Notification S.O. 4259(E) creating the Apex Committee for Implementation of Paris Agreement (2020): [View](#)
- Union Budget 2019-2020 and up to 2023 (2019): [View](#) / [Website](#)
- National Action Plan on Climate Change (2008): [View](#)
- Integrated Energy Policy (2006): [View](#)
- National Electricity Policy (2005): [View](#)



Mitigation Policies: Sector Specific

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Prime Minister's Farmer Energy Security and Upliftment Campaign (2019): [View](#) / [Website](#) / [Implementation Guidelines](#) / [2020 Amendment](#)
- National Auto Fuel Policy and Auto Fuel Vision and Policy 2025 (2014): [View](#)
- National Urban Transport Policy (2014): [View](#)
- National Agroforestry Policy (2014): [View](#)
- Perform, Achieve and Trade (PAT) Scheme (2012): [View](#) / [Website](#) (not loading in NA) / [Screenshot](#)
- National Afforestation Program - Revised Operational Guidelines (2009): [View](#)

INDIA



Outdated Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Pradhan Mantri Sahaj Bijli Har Ghar Yojana (Saubhagya) (2017): [View](#) / [Memorandum](#) / [Press Release](#) / [Guidelines](#)
- Tariff Policy 2006 (2006): [View](#)
- National Electricity Plan (Generation) (2012): [View](#)
- National Mission for Electric Mobility Plan 2020 (2012): [View](#)
- National Policy on Biofuels (2009): [View](#)

INDIA



Mitigation Policies with Current Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Green Hydrogen / Green Ammonia Policy (2022): [View](#) / [Press Release](#) / [PDF](#)
- Notification S.O. 4259(E) creating the Apex Committee for Implementation of Paris Agreement (2020): [View](#)
- Union Budget 2019-2020 and up to 2023 (2019): [View](#) / [Website](#)
- Prime Minister's Farmer Energy Security and Upliftment Campaign (2019): [View](#) / [Website](#) / [Implementation Guidelines](#) / [2020 Amendment](#)

INDIA



Mitigation Policies with Outdated Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Tariff Policy 2006 (2006): [View](#)
- National Electricity Plan (Generation) (2012): [View](#)
- National Policy on Biofuels (2009): [View](#)

[\(View NDC\)](#)

Nepal



Asia Pacific Energy Policy Profile

Forest Cover Target by 2030: 45%

Renewable Energy Share Target: 15% by 2030

Net Zero Target Year: N/A (NDC); 2045 ([COP26](#))

Mitigation Finance Needed: 25 billion USD¹

Climate Action Tracker Rating: **Almost Sufficient**

¹ Not specified how much of this finance needs to come from international support.

Emissions Targets

TARGET REFERENCE

	First NDC (2017)	Latest NDC (2020)
Implementation Period	-	1 Jan 2021 - 31 Dec 2030
Total	no quantifiable emissions targets set	reduce around 723 Gg CO2-eq from BAU (see note)
Unconditional	-	-
Conditional	-	reduce around 723 Gg CO2-eq from BAU (see note in total cell)
Energy Sector	-	1,599 Gg CO2-eq in 2030 (23% below BAU)
Unconditional	-	-
Conditional	-	1,599 Gg CO2-eq in 2030 (23% below BAU)
Agriculture Sector	-	-
Unconditional	-	-
Conditional	-	-
AFOLU Sector	reduce 14 MtCO2e by 2020	no quantitative GHG emissions target - targets stated as forestry goals
Unconditional	-	-
Conditional	-	-
Industrial Sector	-	-
Unconditional	-	-
Conditional	-	-
Waste Sector	-	258 Gg CO2-eq below BAU by 2025
Unconditional	-	-
Conditional	-	258 Gg CO2-eq below BAU by 2025

Note: (1) Nepal did not specify a cumulative emissions target for all sectors. "Total" value calculated by adding Energy and Waste targets together. Does not include mitigation resulting from FOLU goals. (2) Nepal made a blanket statement that all targets are conditional on international support unless otherwise specified.

Nepal: Mitigation NDCs

[\(View NDC\)](#)



General Overview			Scope			Energy/Forestry			Level of Ambition			
Emissions	Quantifiable base/target year indicators	Y	Sectors	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030		
	Unconditional Emissions Targets			Covered All 6 Kyoto Protocol GHGs			Hydro	Y		Specific measures to enforce		
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	Y	
	Specific Targets Per Sector	Y	General Budget/Cost		Solar		Y	Specific measures to enforce				
	Carbon-Neutral/Net Zero Target Year		Budget/Cost for Specific Actions		Biomass			Req. new buildings to be near 0-energy by 2020				
	Unquantifiable Mitigation Plans	Y	Power/Energy	Y	Other Biofuel		Y	Specific measures to enforce		Y		
	Transition to Sustainable Economy	Y	Industrial Processes and Product Use	Y	Geothermal			Expanding forest cover by 2030		Y		
	Updated NDC with More Ambitious Targets	Y	Agriculture	Y	Nuclear			Quantitative forestry targets		Y		
	Plan to Use Art. 6 Voluntary Cooperation		Forestry and Other Land Use	Y	Natural Gas			Reducing food waste and loss				
		Market mechanisms	Y	Waste	Y		Quantifiable Renewable Energy Targets	Y		Specific measures to support		
Non-market mechanisms			All 2006 IPCC Guidelines Sectors?	Y	Renewable Energy Budget		Quantifiable target(s)					
Other	Qualitative Limits on Article 6 Use?		Greenhouse Gases	CO2 (carbon dioxide)	Y	Other	Quantifiable Energy Efficiency Targets	Y	Phase-Out	Target Renewable Energy Share Within 47-65%		
	MRV System	Y		CH4 (methane)	Y		Specific Actions	Y		RE target is < 47% / unspecified %	Y	
	Public NDC Tracking/Reporting System	Y		N2O (nitrous oxide)	Y		Quantifiable Forestry Targets	Y		No RE share target specified		
	Stakeholder Consultation Arrangements			HFC (hydrofluorocarbons)			Specific Forestry Actions?	Y		Quantifiable Phase-Out Period for Fossil Fuels	Coal	
		Formal System for Future Consult.		Y	PFC (perfluorocarbons)			Forest Cover Target (% or ha)			Y	Gas
	NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)			Reduction of Deforestation	Y			Oil	
	Mitigation Co-Benefits from Other Actions			NF3 (nitrogen trifluoride - not in K. Protocol)			Afforestation/Reforestation	Y				
	SDG Co-Benefits	Y		All Kyoto Protocol GHGs?			Change of FOLU Policies	Y				
	Community Engagement Mitigation Actions	Y										

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator

Nepal: Mitigation NDCs + Policies



General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets			Covered All 6 Kyoto Protocol GHGs			Hydro	Y		Specific measures to enforce	
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	Y
	Specific Targets Per Sector	Y	General Budget/Cost		Solar		Y	Specific measures to enforce		Y	
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions		Biomass		Y	Req. new buildings to be near 0-energy by 2020		Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel	Y		Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal			Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets	Y		Agriculture	Y		Nuclear			Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas			Reducing food waste and loss	
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets	Y		Specific measures to support	
Non-market mechanisms		All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget	Y	Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		Greenhouse Gases		CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%			
MRV System	Y		CH4 (methane)	Y	Specific Actions	Y	RE target is < 47% / unspecified %	Y			
Public NDC Tracking/Reporting System	Y		N2O (nitrous oxide)	Y	Quantifiable Forestry Targets	Y	No RE share target specified				
Other	Stakeholder Consultation Arrangements	Y	HFC (hydrofluorocarbons)		Other	Specific Forestry Actions?	Y	Phase-Out	Quantifiable Phase-Out Period for Fossil Fuels		
	Formal System for Future Consult.	Y	PFC (perfluorocarbons)			Forest Cover Target (% or ha)	Y		Coal		
	NDC Expresses Financial Intent	Y	SF6 (sulfur hexafluoride)			Reduction of Deforestation	Y		Gas		
	Mitigation Co-Benefits from Other Actions		NF3 (nitrogen trifluoride - not in K. Protocol)			Afforestation/Reforestation	Y		Oil		
	SDG Co-Benefits	Y	All Kyoto Protocol GHGs?			Change of FOLU Policies	Y				
	Community Engagement Mitigation Actions	Y									

Key

Included

Partial/Under Development/Implied

Negative indicator



Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Nepal's Long-Term Strategy for Net-Zero Emissions (2021): [View PDF](#)
- National Climate Change Policy (2019): [View](#) / PDF: [English](#) / [Nepali](#)
- Biomass Energy Strategy (2017): [View](#)
- National Urban Development Strategy (2017): [View](#)
- Renewable Energy Subsidy Policy (2016): [View](#)
- Forestry Sector Strategy 2016-2025 (2016): [View](#)
- Agriculture Development Strategy 2015-2035 (2015): [View](#)
- Industrial Policy (2011): [View](#)
- Rural Energy Policy (2006): [View](#)
- National Water Plan (2005): [View](#)
- Hydropower Development Policy (2001): [View](#)
- National Transport Policy (2001): [View](#)

NEPAL



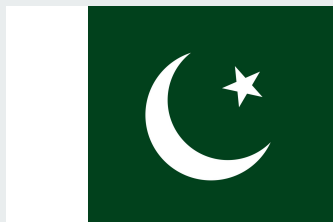
Mitigation Policies with Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Water Plan (2005): [View](#)

[\(View NDC\)](#)

Pakistan



[Asia Pacific Energy Policy Profile](#)

Forest Cover Target by 2030: N/A

Renewable Energy Share Target: N/A (NDC); 60% by 2030 ([other](#))

Net Zero Target Year: N/A ([source](#))

International Support Needed: 101 billion USD¹

Climate Action Tracker Rating: Not Available

¹ For mitigation, just for energy transition.

Emissions Targets

TARGET REFERENCE

		First NDC (2016)	Latest NDC (2021)
Implementation Period		2016-2030	2021-2030
Total		20% below BAU by 2030	50% below BAU by 2030
	Unconditional	-	15%
	Conditional	-	35%
Energy Sector		-	47.7 MtCO ₂ e reduced/avoided
	Unconditional	-	-
	Conditional	-	-
Agriculture Sector		-	-
	Unconditional	-	-
	Conditional	-	-
AFOLU Sector		-	sequestration of 148.76 MtCO ₂ e cumulatively
	Unconditional	-	148.76 MtCO ₂ e (afforestation program planned to be fully funded nationally)
	Conditional	-	-
Industrial Sector		-	-
	Unconditional	-	-
	Conditional	-	-
Waste Sector		-	-
	Unconditional	-	-
	Conditional	-	-

Note: Unclear if Energy Sector target is a cumulative reduction over implementation period or annual reduction by 2030.

Pakistan: Mitigation NDCs

[\(View NDC\)](#)


General Overview		Scope		Energy/Forestry		Level of Ambition					
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Halting investment in unabated coal by 2030	Y	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y			Hydro		Y	Specific measures to enforce
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	General Budget/Cost		Y	Wind	Y	Phase-out of fossil-fuel passenger vehicle sales	Y
	Specific Targets Per Sector	Y					Budget/Cost for Specific Actions	Y	Solar		Y
	Carbon-Neutral/Net Zero Target Year		Sectors	Power/Energy	Y		Biomass	Y	Req. new buildings to be near 0-energy by 2020	Y	
	Unquantifiable Mitigation Plans	Y		Industrial Processes and Product Use	Y		Other Biofuel			Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Agriculture	Y		Geothermal		Expanding forest cover by 2030	Y	
	Updated NDC with More Ambitious Targets	Y		Forestry and Other Land Use	Y		Nuclear			Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Market mechanisms		Y	Waste		Y	Natural Gas		Reducing food waste and loss	
		Non-market mechanisms		Y	All 2006 IPCC Guidelines Sectors?		Y	Quantifiable Renewable Energy Targets	Y		Specific measures to support
Qualitative Limits on Article 6 Use?			Greenhouse Gases	CO2 (carbon dioxide)	Y	Renewable Energy Budget		Quantifiable target(s)			
				CH4 (methane)		Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%	Y		
Other	MRV System	Y	Other	N2O (nitrous oxide)	Y	Specific Actions	Y	RE target is < 47% / unspecified %			
	Public NDC Tracking/Reporting System			HFC (hydrofluorocarbons)			Quantifiable Forestry Targets		Y	No RE share target specified	
	Stakeholder Consultation Arrangements	Formal System for Future Consult.		Y	PFC (perfluorocarbons)		Specific Forestry Actions?	Y	Quantifiable Phase-Out Period for Fossil Fuels	Y	
		NDC Expresses Financial Intent		Y	SF6 (sulfur hexafluoride)		Forest Cover Target (% or ha)	Y		Coal	Y
	Mitigation Co-Benefits from Other Actions	Y		NF3 (nitrogen trifluoride - not in K. Protocol)		Reduction of Deforestation	Y	Gas			
	SDG Co-Benefits	Y		All Kyoto Protocol GHGs?		Afforestation/Reforestation	Y	Oil			
	Community Engagement Mitigation Actions	Y				Change of FOLU Policies	Y				

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator



Pakistan: Mitigation NDCs + Policies

General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	Y
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y		Hydro	Y		Specific measures to enforce	Y
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	Y
	Specific Targets Per Sector	Y	General Budget/Cost	Y	Solar		Y	Specific measures to enforce		Y	
	Carbon-Neutral/Net Zero Target Year		Budget/Cost for Specific Actions		Biomass		Y	Req. new buildings to be near 0-energy by 2020		Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel	Y		Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal	Y		Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets	Y		Agriculture	Y		Nuclear	Y		Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas	Y		Reducing food waste and loss	Y
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets	Y		Specific measures to support	Y
Non-market mechanisms	Y	All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget		Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		CO2 (carbon dioxide)		Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%	Y			
Other	MRV System	Y	Greenhouse Gases	CH4 (methane)		Other	Specific Actions	Y	Phase-Out	RE target is < 47% / unspecified %	
	Public NDC Tracking/Reporting System			N2O (nitrous oxide)	Y		Quantifiable Forestry Targets	Y		No RE share target specified	
	Stakeholder Consultation Arrangements	Y		HFC (hydrofluorocarbons)			Specific Forestry Actions?	Y		Quantifiable Phase-Out Period for Fossil Fuels	Y
	Formal System for Future Consult.	Y		PFC (perfluorocarbons)			Forest Cover Target (% or ha)	Y		Coal	Y
	NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)			Reduction of Deforestation	Y		Gas	
	Mitigation Co-Benefits from Other Actions	Y		NF3 (nitrogen trifluoride - not in K. Protocol)			Afforestation/Reforestation	Y		Oil	
	SDG Co-Benefits	Y		All Kyoto Protocol GHGs?			Change of FOLU Policies	Y			
	Community Engagement Mitigation Actions	Y									

Key

Included

Partial/Under Development/Implied

Negative indicator



Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Electric Vehicle Policy (2020): [View](#) / [View PDF](#)
- Green Stimulus Package (2020): [View](#) / [Article](#) / [UNESCAP Working Paper](#) / [Update Article](#)
- 10 Billion Tree Tsunami Programme (Plant4Pakistan) (2018): [View](#) / [Website](#) / [UNEP News](#)
- Framework for Implementation of Climate Change Policy 2014-2030 (2013): [View](#)
- National Sustainable Development Strategy (NSDS) (2010): [View](#)
- National Water Policy (2018): [View](#) / [View PDF](#)
- National Forest Policy (2010, last change 2015): [View](#)



Mitigation Policies: Energy

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Electricity Policy (2021): [View](#) / [View PDF](#)
- Energy Efficiency & Conservation Strategic Plan 2020-23 by National Energy Efficiency and Conservation Authority NEECA (2020): [View](#) / [View PDF](#)
- Alternative and Renewable Energy Policy (2019): [View](#) / [View PDF](#)
- Pakistan National Action Plan on SDG 12: Sustainable Consumption and Production (2017): [View](#) / [Fact Sheet](#) / [PDF](#)
 - Focused on adaptation but contains renewable energy targets.
- National Power Policy (2013): [View](#)



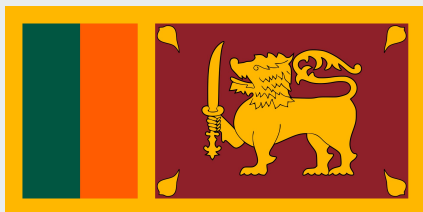
Mitigation Policies with Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Electricity Policy (2021): [View](#) / [View PDF](#)
- 10 Billion Tree Tsunami Programme (Plant4Pakistan): [View](#) / [Website](#) / [UNEP New](#)
- National Water Policy (2018): [View](#) / [View PDF](#)
- Pakistan National Action Plan on SDG 12: Sustainable Consumption and Production (2017): [View](#) / [Fact Sheet](#) / [PDF](#)
 - Focused on adaptation but contains renewable energy targets.
- National Power Policy (2013): [View](#)
- National Sustainable Development Strategy (NSDS) (2010): [View](#)

[\(View NDC\)](#)

Sri Lanka



Asia Pacific Energy Policy Profile

Forest Cover Target by 2030: 32%

Renewable Energy Share Target by 2030: 70%

Carbon Neutrality Target Year: 2050

International Support Needed: Not Stated¹

Climate Action Tracker Rating: Not Available

¹ NDC states that an NDC cost estimate and financial strategy have been commissioned and will be communicated via addendum.

Emissions Targets

TARGET REFERENCE

		First NDC (2016)	Latest NDC (2021)
Implementation Period		2021-2030	2021-2030
Total		reduction of 20% below BAU in energy sector, 10% in other sectors	14.5% below BAU
	Unconditional	4% for energy sector, 3% for other sectors	4% below BAU
	Conditional	16% for energy sector, 7% for other sectors	10.5% below BAU
Energy Sector		20% below BAU	25% below energy sector BAU
	Unconditional	4% below BAU	5% below BAU
	Conditional	16% below BAU	20% below BAU
Agriculture Sector		-	7% below agriculture sector BAU
	Unconditional	-	4% below BAU
	Conditional	-	3% below BAU
AFOLU Sector		10% below BAU (forestry)	-
	Unconditional	3% below BAU	-
	Conditional	7% below BAU	-
Industrial Sector		10% below BAU	7% below BAU
	Unconditional	3% below BAU	4% below BAU
	Conditional	7% below BAU	3% below BAU
Waste Sector		10% below BAU	11% below BAU
	Unconditional	3% below BAU	8.5% below BAU
	Conditional	7% below BAU	2.5% below BAU

Sri Lanka: Mitigation NDCs

[\(View NDC\)](#)


General Overview		Scope		Energy/Forestry		Level of Ambition					
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy/Forestry	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	Y
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs				Hydro		Y	Specific measures to enforce
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y			Wind		Phase-out of fossil-fuel passenger vehicle sales	Y
	Specific Targets Per Sector	Y		General Budget/Cost				Solar	Y	Specific measures to enforce	Y
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions		Biomass			Y	Req. new buildings to be near 0-energy by 2020		Y
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y			Other Biofuel		Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y			Geothermal		Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets			Agriculture	Y			Nuclear		Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation			Forestry and Other Land Use	Y			Natural Gas		Reducing food waste and loss	Y
	Market mechanisms			Waste	Y			Quantifiable Renewable Energy Targets	Y	Specific measures to support	
Non-market mechanisms		All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget		Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		Greenhouse Gasses	CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%	Y			
Other	MRV System		Y	CH4 (methane)		Specific Actions	Y	RE target is < 47% / unspecified %			
	Public NDC Tracking/Reporting System		Y	N2O (nitrous oxide)		Quantifiable Forestry Targets	Y	No RE share target specified			
	Stakeholder Consultation Arrangements		Y	HFC (hydrofluorocarbons)		Specific Forestry Actions?	Y	Phase-Out	Quantifiable Phase-Out Period for Fossil Fuels	Y	
				Formal System for Future Consult.		PFC (perfluorocarbons)				Forest Cover Target (% or ha)	Y
	NDC Expresses Financial Intent		Y	SF6 (sulfur hexafluoride)		Reduction of Deforestation	Y	Gas			
	Mitigation Co-Benefits from Other Actions	Y	NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation	Y	Oil				
	SDG Co-Benefits	Y	All Kyoto Protocol GHGs?		Change of FOLU Policies	Y					
	Community Engagement Mitigation Actions	Y									

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator



Sri Lanka: Mitigation NDCs + Policies

General Overview			Scope			Energy/Forestry			Level of Ambition			
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	Y	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs			Hydro	Y		Specific measures to enforce	Y	
	Conditional/Unspecified Emissions Targets	Y		Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	Y	
	Specific Targets Per Sector	Y	General Budget/Cost	Y	Solar		Y	Specific measures to enforce		Y		
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions	Y	Biomass		Y	Req. new buildings to be near 0-energy by 2020		Y		
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel			Specific measures to enforce	Y	
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal			Expanding forest cover by 2030	Y	
	Updated NDC with More Ambitious Targets			Agriculture	Y		Nuclear	Y		Quantitative forestry targets	Y	
	Plan to Use Art. 6 Voluntary Cooperation			Forestry and Other Land Use	Y		Natural Gas	Y		Reducing food waste and loss	Y	
				Market mechanisms			Quantifiable Renewable Energy Targets	Y		Specific measures to support	Y	
Non-market mechanisms					Renewable Energy Budget	Y	Quantifiable target(s)	Y				
Qualitative Limits on Article 6 Use?					Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%	Y				
Other	MRV System	Y	Greenhouse Gases	All 2006 IPCC Guidelines Sectors?	Y	Other	Specific Actions	Y	RE target is < 47% / unspecified %			
	Public NDC Tracking/Reporting System	Y		CO2 (carbon dioxide)	Y		Quantifiable Forestry Targets	Y	No RE share target specified			
	Stakeholder Consultation Arrangements	Y		CH4 (methane)			Specific Forestry Actions?	Y	Phase-Out	Quantifiable Phase-Out Period for Fossil Fuels	Y	
				Formal System for Future Consult.			PFC (perfluorocarbons)			Forest Cover Target (% or ha)	Y	Coal
	NDC Expresses Financial Intent	Y		N2O (nitrous oxide)			SF6 (sulfur hexafluoride)			Reduction of Deforestation	Y	Gas
	Mitigation Co-Benefits from Other Actions	Y		HFC (hydrofluorocarbons)			NF3 (nitrogen trifluoride - not in K. Protocol)		Afforestation/Reforestation	Y	Oil	
	SDG Co-Benefits	Y		PFC (perfluorocarbons)			All Kyoto Protocol GHGs?		Change of FOLU Policies	Y		
	Community Engagement Mitigation Actions	Y		CO2 (carbon dioxide)	Y							

Key

Included

Partial/Under Development/Implied

Negative indicator

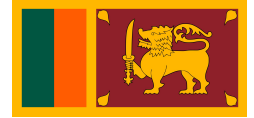


Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Policy on Sustainable Consumption and Production for Sri Lanka (2019): [View](#) / [PDF](#)
- National Action Plan for Haritha Lanka Programme (2019): [View](#)
- National Energy Policy & Strategies of Sri Lanka (2008, last change 2019): [View](#) / [2019 PDF](#)
- Coastal Zone and Coastal Resource Management Plan (2018): [View](#) / [PDF](#)
- Sri Lanka Energy Sector Development Plan for a Knowledge-based Economy 2015-2025 (2015): [View](#)
- Technology Needs Assessment and Technology Action Plans for Climate Change Mitigation (2014): [View](#)
- National Climate Change Policy of Sri Lanka (2012): [View](#)
- National Environmental Policy and Strategies (2003): [View](#)

SRI LANKA



Outdated Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- National Biodiversity Strategic Action Plan 2016-2022 (2016): [View](#) / [PDF](#)
- National Climate Change Adaptation Strategy for Sri Lanka 2011-2016 (2010): [View](#)



Mitigation Policies with Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

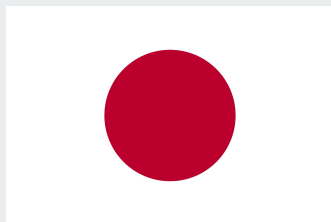
- National Policy on Sustainable Consumption and Production for Sri Lanka (2019): [View](#) / [PDF](#)
- National Action Plan for Haritha Lanka Programme (2019): [View](#)
- National Energy Policy & Strategies of Sri Lanka (2008, last change 2019): [View](#) / [2019 Version](#)
- Sri Lanka Energy Sector Development Plan for a Knowledge-based Economy 2015-2025 (2015): [View](#)

SECTION VI

East Asia Country Profiles

(View [Updated NDC](#) / [Previous NDC](#))

Japan



[Asia Pacific Energy Policy Profile](#)

Forest Cover Target by 2030: N/A

Net Zero Target Year: 2050

Renewable Energy Share Target: 22-24% by 2030 (NDC); 36-38% by 2030 ([Sixth Strategic Energy Plan](#))

Climate Action Tracker Rating: **Insufficient**

Emissions Targets

TARGET REFERENCE

	First NDC (2016)	Latest NDC (2021)
Implementation Period	1 Apr 2021 - 31 Mar 2031 (FY 2021 - FY 2030)	1 Apr 2021 - 31 Mar 2031 (FY 2021 - FY 2030)
Total	1,079.4 MtCO ₂ e emissions (not reduction) in FY 2030	760 MtCO ₂ e emissions (not reduction) in FY 2030
	Unconditional	-
	Conditional	-
Energy Sector	927 MtCO ₂ e emissions (not reduction) in FY 2030 (CO ₂ only)	677 MtCO ₂ e emissions (not reduction) in FY 2030 (CO ₂ only)
	Unconditional	-
	Conditional	-
Agriculture Sector	-	-
	Unconditional	-
	Conditional	-
AFOLU Sector	-	-
	Unconditional	-
	Conditional	-
Industrial Sector	-	-
	Unconditional	-
	Conditional	-
Waste Sector	-	-
	Unconditional	-
	Conditional	-

Note: Japan categorised its emissions targets by GHG, not by sector.

Japan: Mitigation NDCs

Note: Some of Japan's mitigation targets and initiatives are in the previous NDC, not the updated one.



(View [Updated NDC](#) / [Previous NDC](#))

General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y		Hydro			Specific measures to enforce	
	Conditional/Unspecified Emissions Targets			Discussed Mitigation Finance			Wind			Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector		General Budget/Cost		Solar			Specific measures to enforce			
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions		Biomass			Req. new buildings to be near 0-energy by 2020			
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel			Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal			Expanding forest cover by 2030	
	Updated NDC with More Ambitious Targets	Y		Agriculture	Y		Nuclear			Quantitative forestry targets	
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas			Reducing food waste and loss	
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets			Specific measures to support	
Non-market mechanisms	Y	All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget		Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		CO2 (carbon dioxide)		Y	Quantifiable Energy Efficiency Targets		Target Renewable Energy Share Within 47-65%				
Other	MRV System		Greenhouse Gasses	CH4 (methane)	Y	Other	Specific Actions		RE target is < 47% / unspecified %	Y	
	Public NDC Tracking/Reporting System			N2O (nitrous oxide)	Y		Quantifiable Forestry Targets		No RE share target specified		
	Stakeholder Consultation Arrangements	Y		HFC (hydrofluorocarbons)	Y		Specific Forestry Actions?		Phase-Out	Quantifiable Phase-Out Period for Fossil Fuels	
	Formal System for Future Consult.			PFC (perfluorocarbons)	Y		Forest Cover Target (% or ha)			Coal	
	NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)	Y		Reduction of Deforestation			Gas	
	Mitigation Co-Benefits from Other Actions			NF3 (nitrogen trifluoride - not in K. Protocol)	Y		Afforestation/Reforestation		Oil		
	SDG Co-Benefits	Y		All Kyoto Protocol GHGs?	Y		Change of FOLU Policies				
	Community Engagement Mitigation Actions	Y									

Key

Included in NDC

Partial/Under Development/Implied

Negative indicator



Japan: Mitigation NDCs + Policies

General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y		Hydro			Specific measures to enforce	
	Conditional/Unspecified Emissions Targets			Discussed Mitigation Finance			Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	
	Specific Targets Per Sector		General Budget/Cost		Solar		Y	Specific measures to enforce			
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions		Biomass		Y	Req. new buildings to be near 0-energy by 2020			
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel			Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal	Y		Expanding forest cover by 2030	
	Updated NDC with More Ambitious Targets	Y		Agriculture	Y		Nuclear	Y		Quantitative forestry targets	
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas	Y		Reducing food waste and loss	Y
	Market mechanisms	Y		Waste	Y		Quantifiable Renewable Energy Targets	Y		Specific measures to support	
Non-market mechanisms	Y	All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget	Y	Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		Greenhouse Gasses		CO2 (carbon dioxide)	Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%	Y		
Other	MRV System			CH4 (methane)	Y	Specific Actions	Y	RE target is < 47% / unspecified %			
	Public NDC Tracking/Reporting System			N2O (nitrous oxide)	Y	Quantifiable Forestry Targets		No RE share target specified			
	Stakeholder Consultation Arrangements	Y	HFC (hydrofluorocarbons)	Y	Specific Forestry Actions?		Quantifiable Phase-Out Period for Fossil Fuels	Y			
	Formal System for Future Consult.		PFC (perfluorocarbons)	Y	Forest Cover Target (% or ha)		Coal	Y			
	NDC Expresses Financial Intent	Y	SF6 (sulfur hexafluoride)	Y	Reduction of Deforestation		Gas	Y			
	Mitigation Co-Benefits from Other Actions		NF3 (nitrogen trifluoride - not in K. Protocol)	Y	Afforestation/Reforestation		Oil	Y			
	SDG Co-Benefits	Y	All Kyoto Protocol GHGs?	Y	Change of FOLU Policies						
	Community Engagement Mitigation Actions	Y									

Key

Included

Partial/Under Development/Implied

Negative indicator

Note: Several important documents are only in Japanese. Due to lack of time, the author of this reference was unable to review them, so keep in mind that some of the missing elements might be present in those documents.



Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Green Transformation (GX) Basic Policy (2023): [View](#) (JP only) / [Summary Presentation](#) / News [1](#) / [2](#)
- Advanced energy-saving investment promotion support project (2022): [View](#) / [Info PDF](#) (JP only)
- The 6th Strategic Energy Plan (2018, last change 2021): [View](#) / [Documents](#)
- MoEJ Initiative for Decarbonised Infrastructure (Joint crediting mechanism): [View](#) / [PDF](#)
 - Joint Crediting Mechanism (JCM): [View](#) / [View PDF](#)
- Green Growth Strategy Through Achieving Carbon Neutrality in 2050 (2020): [View](#) / [Website](#) / [PDF](#) (Japanese only–English informational materials available on Climate Laws listing and official website)
- Roadmap for Carbon Recycling Technologies (2019): [View](#) / [Summary PDF](#)
- Plan for Global Warming Countermeasures (2016): [View](#) / [Website](#) / [PDF](#)



Mitigation Policies: Sector Specific

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- R&D and Social Implementation Plan for “Next-Generation Solar Cell Development” Projects (2021): [View](#) / [Press Release](#) / [Summary](#)
- R&D and Public Implementation Plan for “Cost Reductions for Offshore Wind Power Generation” Projects (2021): [View](#) / [Press Release](#) / [Summary](#)
- Strategy for Sustainable Food Systems, MeaDRI (2021): [View](#) / [Website](#)
- Fuel Economy Standards for Passenger and Heavy Duty Vehicles (2019, last change 2020): [View](#)
- 2019 Strategic Roadmap for Hydrogen and Fuel Cells and 2017 Basic Hydrogen Strategy (2017, amended 2019): [View](#) / [2017 Policy](#) (Eng Translation) / [2019 Policy](#) (Japanese only)
- Programme on direct payments for environmentally friendly agriculture: [View](#) / [Website](#)



Mitigation Policies: Transition Finance

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Sectoral Roadmaps for Promoting Transition Finance (2022): [View](#) / [Website](#)
 - Iron and Steel ([English](#) / [Japanese](#))
 - Chemical ([English](#) / [Japanese](#))
 - Power ([English](#) / [Japanese](#))
 - Gas ([English](#) / [Japanese](#))
 - Oil ([English](#) / [Japanese](#))
 - Pulp and Paper ([English](#) / [Japanese](#))
 - Cement ([English](#) / [Japanese](#))

This list of PDFs is on the METI website linked above. Additional references also available at the link.
- Basic Guidelines on Climate Transition Finance (2021): [View](#) / [PDF](#)



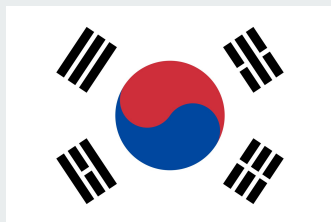
Mitigation Laws/Policies with Targets

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Green Growth Strategy Through Achieving Carbon Neutrality in 2050 (2020): [View](#) / [Website](#) / [PDF](#) (Japanese only–English informational materials available on Climate Laws listing and official website)
- 2019 Strategic Roadmap for Hydrogen and Fuel Cells and 2017 Basic Hydrogen Strategy (2017, amended 2019): [View](#) / [2017 Policy](#) (Eng Translation) / [2019 Policy](#) (Japanese only)
- The 6th Strategic Energy Plan (2018, last change 2021): [View](#) / [Documents](#)
- Act on Promotion of Global Warming Countermeasures (Law No. 117 of 1998) (2016): [View](#)
- Plan for Global Warming Countermeasures (2016): [View](#) / [Website](#) / [PDF](#)
- Strategy for Sustainable Food Systems, MeaDRI (2021): [View](#) / [Website](#)

(View [Updated NDC](#) / [Previous NDC](#))

South Korea



[Asia Pacific Energy Policy Profile](#)

Forest Cover Target by 2030: N/A

Net Zero Target Year: 2050 (carbon neutral)

Renewable Energy Share Target: 20% by 2030 (NDC);
42% by 2034 ([policy](#))

Climate Action Tracker Rating: **Not Available**

Emissions Targets

TARGET REFERENCE

		First NDC (2016)	Latest NDC (2021)
Implementation Period		by 2030	1 Jan 2021 - 31 Dec 2030
Total		37% below BAU in 2030	40% below base year
	Unconditional	-	-
	Conditional	-	-
Energy Sector		-	-
	Unconditional	-	-
	Conditional	-	-
Agriculture Sector		-	-
	Unconditional	-	-
	Conditional	-	-
AFOLU Sector		-	-
	Unconditional	-	-
	Conditional	-	-
Industrial Sector		-	-
	Unconditional	-	-
	Conditional	-	-
Waste Sector		-	-
	Unconditional	-	-
	Conditional	-	-

South Korea: Mitigation NDCs

Note: Some of South Korea's mitigation targets and Initiatives are in the previous NDC, not the updated one.

(View [Updated NDC](#) / [Previous NDC](#))



General Overview		Scope		Energy/Forestry		Level of Ambition												
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Halting investment in unabated coal by 2030	Y								
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y			Hydro		Y	Specific measures to enforce	Y						
	Conditional/Unspecified Emissions Targets			Discussed Mitigation Finance	General Budget/Cost			Wind	Y	Phase-out of fossil-fuel passenger vehicle sales	Specific measures to enforce	Y						
	Specific Targets Per Sector						Budget/Cost for Specific Actions		Solar			Y						
	Carbon-Neutral/Net Zero Target Year	Y	Sectors	Power/Energy	Y		Other	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Biomass		Req. new buildings to be near 0-energy by 2020	Y						
	Unquantifiable Mitigation Plans	Y		Industrial Processes and Product Use	Y				Other Biofuel		Specific measures to enforce	Y						
	Transition to Sustainable Economy	Y		Agriculture	Y				Geothermal	Y	Expanding forest cover by 2030	Quantitative forestry targets	Y					
	Updated NDC with More Ambitious Targets	Y		Forestry and Other Land Use	Y				Nuclear									
	Plan to Use Art. 6 Voluntary Cooperation	Market mechanisms			Waste				Y	Natural Gas	Y	Reducing food waste and loss	Specific measures to support					
				Non-market mechanisms					All 2006 IPCC Guidelines Sectors?		Y			Quantifiable Renewable Energy Targets	Renewable Energy Budget	Quantifiable Energy Efficiency Targets	Specific Actions	Y
Qualitative Limits on Article 6 Use?					CO2 (carbon dioxide)	Y			Quantifiable Forestry Targets		Specific Forestry Actions?							Y
					CH4 (methane)	Y												Forest Cover Target (% or ha)
Other	MRV System			Greenhouse Gasses	N2O (nitrous oxide)	Y				Other		Phase-Out	Quantifiable Phase-Out Period for Fossil Fuels					
	Public NDC Tracking/Reporting System	Y			HFC (hydrofluorocarbons)	Y								Reduction of Deforestation	Y	Gas		
	Stakeholder Consultation Arrangements	Formal System for Future Consult.	Y		PFC (perfluorocarbons)	Y	Afforestation/Reforestation	Y	Oil									
			Y		SF6 (sulfur hexafluoride)	Y	Change of FOLU Policies	Y										
	NDC Expresses Financial Intent	Y	NF3 (nitrogen trifluoride - not in K. Protocol)															
	Mitigation Co-Benefits from Other Actions		All Kyoto Protocol GHGs?		Y													
SDG Co-Benefits																		
Community Engagement Mitigation Actions	Y																	

Key

- Included in NDC
- Partial/Under Development/Implied
- Negative indicator



South Korea: Mitigation NDCs + Policies

General Overview			Scope			Energy/Forestry			Level of Ambition		
Emissions	Quantifiable base/target year indicators	Y	Scope	Covered All 2006 IPCC Guidelines Sectors	Y	Energy	Discussed Renewable Energy	Y	Mitigation Actions Aligned with IPCC SR1.5 Pathway	Halting investment in unabated coal by 2030	Y
	Unconditional Emissions Targets	Y		Covered All 6 Kyoto Protocol GHGs	Y		Hydro	Y		Specific measures to enforce	Y
	Conditional/Unspecified Emissions Targets			Discussed Mitigation Finance	Y		Wind	Y		Phase-out of fossil-fuel passenger vehicle sales	Y
	Specific Targets Per Sector		General Budget/Cost		Solar		Y	Specific measures to enforce		Y	
	Carbon-Neutral/Net Zero Target Year	Y	Budget/Cost for Specific Actions		Biomass			Req. new buildings to be near 0-energy by 2020		Y	
	Unquantifiable Mitigation Plans	Y	Sectors	Power/Energy	Y		Other Biofuel			Specific measures to enforce	Y
	Transition to Sustainable Economy	Y		Industrial Processes and Product Use	Y		Geothermal	Y		Expanding forest cover by 2030	Y
	Updated NDC with More Ambitious Targets	Y		Agriculture	Y		Nuclear	Y		Quantitative forestry targets	Y
	Plan to Use Art. 6 Voluntary Cooperation	Y		Forestry and Other Land Use	Y		Natural Gas	Y		Reducing food waste and loss	Y
	Market mechanisms			Waste	Y		Quantifiable Renewable Energy Targets	Y		Specific measures to support	Y
Non-market mechanisms		All 2006 IPCC Guidelines Sectors?		Y	Renewable Energy Budget	Y	Quantifiable target(s)				
Qualitative Limits on Article 6 Use?		CO2 (carbon dioxide)		Y	Quantifiable Energy Efficiency Targets	Y	Target Renewable Energy Share Within 47-65%				
Other	MRV System		Greenhouse Gasses	CH4 (methane)	Y	Other	Specific Actions	Y	Phase-Out	RE target is < 47% / unspecified %	Y
	Public NDC Tracking/Reporting System	Y		N2O (nitrous oxide)	Y		Quantifiable Forestry Targets	Y		No RE share target specified	
	Stakeholder Consultation Arrangements	Y		HFC (hydrofluorocarbons)	Y		Specific Forestry Actions?	Y		Quantifiable Phase-Out Period for Fossil Fuels	
	Formal System for Future Consult.	Y		PFC (perfluorocarbons)	Y		Forest Cover Target (% or ha)	Y		Coal	Y
	NDC Expresses Financial Intent	Y		SF6 (sulfur hexafluoride)	Y		Reduction of Deforestation	Y		Gas	
	Mitigation Co-Benefits from Other Actions			NF3 (nitrogen trifluoride - not in K. Protocol)			Afforestation/Reforestation	Y		Oil	
	SDG Co-Benefits			All Kyoto Protocol GHGs?	Y		Change of FOLU Policies	Y			
	Community Engagement Mitigation Actions	Y									

Key

Included

Partial/Under Development/Implied

Negative indicator

SOUTH KOREA



Mitigation Policies

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- 2050 Carbon Neutral Scenario Roadmaps (2021): [View](#)
- Regulations on the establishment and operation of the 2050 Carbon Neutrality Committee (Presidential Decree No. 31669) (2021): [View](#)
- 2050 Carbon Neutral Strategy (2020): [View](#) / [PDF](#)
- Korean New Deal (2020): [View](#) / [Website](#)
- Energy Master Plan (2008, last change 2019): [View](#) / [2nd MP](#) / [3rd MP](#)
- 3rd Basic Plan for the K-ETS (2019): [View](#) / [MoE Statement](#) / [Factsheet](#) / [PDF](#)
- 2nd Basic Plan for Climate Change Response (2019): [View Info](#) (document not available)
- National Roadmap for Greenhouse Gas Reductions by 2030 (2016, last change 2018): [View](#) / [Website](#) (Korean) / [PDF](#) (Korean)

SOUTH KOREA



Mitigation Policies: Sector Specific

Date ranges outside parentheses indicate implementation periods; dates in parentheses indicate the year a policy was passed.

- Korea Hydrogen Economy Roadmap 2040 (2019): [Targets](#) / [Press Release](#) (Korean only; PDF format downloadable) / [Overview](#) (third party) / [PDF](#)
- Eighth Long-term Plan for Electricity Supply and Demand and Implementation Plan for Renewable 20% by 2030 (2017): [View](#)

SECTION VII

References

Resources



- Asia Pacific Energy ([link](#))
 - Contains Policy Search, Timelines, and Matrix for energy-related policies
 - Energy policy profiles for Asia-Pacific countries
- ECOLEX ([link](#))
 - Database for environmental law
- Climate Laws ([link](#))
 - Database for climate legislation, policies, and litigation
- UNFCCC NDC Synthesis Reports
 - [2021 Synthesis Reports](#) (published Feb., Sept., and Oct. 2021)
 - [2022 Synthesis Report](#) (published Oct. 26, 2022)
- Climate Action Tracker ([link](#))
 - Evaluation of Updated NDC Target Ambitions: [Link](#)
 - List of Non-Updating Countries: [Link](#)
- 1.5C National Pathway Explorer ([link](#))

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