

Country	Summary Mitigation Action	Detailed Mitigation action Submitted to the UNFCCC <sup>1</sup>	2005 Estimated GHG Emissions <sup>2</sup>		
			MtCO <sub>2</sub> e	Rank	% of World Total
China	<ul style="list-style-type: none"> <li>• Reduce emissions per unit of GDP of 40-45% below 2005 levels by 2020</li> <li>• Increase energy from non-fossil fuels to supply 15% of China's primary energy consumption by 2020</li> <li>• Increase forest cover by 40 million hectares by 2020 and increase forest stock volume 1.3 billion cubic meters above 2005 levels by 2020.</li> </ul>	<a href="#">Endeavor to lower its carbon dioxide emissions per unit of GDP by 40-45% by 2020 compared to the 2005 level, increase the share of non-fossil fuels in primary energy consumption to around 15% by 2020 and increase forest coverage by 40 million hectares and forest stock volume by 1.3 billion cubic meters by 2020 from the 2005 levels.</a>	7,187	1	16.6%
USA	In the range of 17%, in conformity w/ energy & climate legislation	<a href="#">In the range of 17%, in conformity with anticipated U.S. energy and climate legislation</a> , recognizing that the final target will be reported to the Secretariat in light of enacted legislation. The pathway set forth in pending legislation would entail a 30% reduction in 2025 and a 42% reduction in 2030, in line with the goal to reduce emissions 83% by 2050.	6,814	2	15.8%
EU	20-30% economy-wide cut below 1990 levels in 2020	<a href="#">20/30% economy-wide cut below 1990 levels in 2020.</a> As part of a global and comprehensive agreement for the period beyond 2012, the EU reiterates its conditional offer to move to a 30% reduction by 2020 compared to 1990 levels, provided that other developed countries commit themselves to comparable emission reductions and that developing countries contribute adequately according to their responsibilities and respective capabilities.	5,049	3	11.7%

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Brazil	<p>36-39% reduction below business as usual levels (reducing emissions to ~1994 levels)</p> <ul style="list-style-type: none"> <li>• 80% cut in deforestation rates from historic levels by 2020</li> <li>• Increase alternative energy sources, energy efficiency, improved farming practices, and other measures</li> </ul>	<p><a href="#">Anticipated that these actions will lead to an expected reduction of 36.1-38.9% regarding the projected emissions of Brazil by 2020.</a></p> <ul style="list-style-type: none"> <li>• Reduction of Amazon deforestation (range of estimated reduction: 564 MMTCO<sub>2</sub>e in 2020)</li> <li>• Reduction in “Cerrado” deforestation (range of estimated reduction: 104 MMTCO<sub>2</sub>e in 2020)</li> <li>• Restoration of grazing land (range of estimated reduction: 83-104 MMTCO<sub>2</sub>e in 2020)</li> <li>• No-till farming (range of estimated reduction: 16-20 MMTCO<sub>2</sub>e in 2020)</li> <li>• Biological N<sub>2</sub> fixation (range of estimated reduction: 16-20 MMTCO<sub>2</sub>e in 2020)</li> <li>• Energy efficiency (range of estimated reduction: 12-15 MMTCO<sub>2</sub>e in 2020)</li> <li>• Increase the use of biofuels (range of estimated reduction: 48-60 MMTCO<sub>2</sub>e in 2020)</li> <li>• Increase in energy supply by hydroelectric power plants (range of estimated reduction: 79-99 MMTCO<sub>2</sub>e in 2020)</li> <li>• Alternative energy sources (range of estimated reduction: 26-33 MMTCO<sub>2</sub>e in 2020)</li> <li>• Iron &amp; steel – replace coal from deforestation with coal from planted forests (range of estimated reduction: 8-10 MMTCO<sub>2</sub>e in 2020)</li> </ul>	2,842	4	6.6%

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Indonesia	26% emission reduction by 2020 below BAU	<a href="#">26% emission reduction by 2020 below business as usual levels</a> , achieved through the following actions: <ul style="list-style-type: none"> <li>• Sustainable peat land management</li> <li>• Reduction in the rate of deforestation and land degradation</li> <li>• Development of carbon sequestration</li> <li>• Promotion of energy efficiency</li> <li>• Development of alternative and renewable energy sources</li> <li>• Reduction in solid and liquid waste</li> <li>• Shifting to low-emission transportation mode</li> </ul>	2,042	5	4.7%
Russian Federation	15-25% economy-wide cut below 1990 levels in 2020	<a href="#">15-25% economy-wide cut below 1990 levels in 2020</a>	2,005	6	4.6%
India	Reduce emissions per unit of GDP of 20-25% below 2005 levels by 2020	<a href="#">India will endeavour to reduce the emissions intensity of its GDP by 20-25% by 2020 in comparison to the 2005 level.</a> The emissions from agriculture sector will not form part of the assessment of emissions intensity.	1,866	7	4.3%
Japan	25% economy-wide cut below 1990 levels in 2020 with a “fair and effective” international framework	<a href="#">25% economy-wide reduction below 1990 levels in 2020</a> , which is premised on the establishment of a fair and effective international framework in which all major economies participate and on agreement by those economies on ambitious targets.	1,356	8	3.1%
Canada	17% economy-wide cut below 2005 levels in 2020, to be aligned with the final US legislation	<a href="#">17% economy-wide emissions cut compared to 2005 levels</a> , to be aligned with the final economy-wide emissions target of the United States in enacted legislation.	804	9	1.9%
Mexico	Aims at reducing its GHG emissions up to 30% with respect to the BAU scenario by 2020, provided the provision of adequate financial and technological	<ul style="list-style-type: none"> <li>• <a href="#">Achieve a reduction in total annual emissions of 51 MMTCO<sub>2</sub>e by 2012.</a></li> <li>• Aims at reducing its GHG emissions up to 30% with respect to the BAU scenario by 2020, provided the provision of adequate financial and technological support from developed countries as part of a global</li> </ul>	683	10	1.6%

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	support.	agreement.			
Republic of Korea	Cut national emissions 30% below BAU in 2020	<a href="#">To reduce national greenhouse gas emissions by 30% from the business-as-usual emissions by 2020</a> (~%4 below 2005 levels)	569	11	1.3%
Australia	5-25% economy-wide cut below 2000 levels in 2020	<a href="#">Australia will reduce its greenhouse gas emissions by 25% on 2000 levels by 2020 if the world agrees to an ambitious global deal capable of stabilising levels of greenhouse gases in the atmosphere at 450 ppm CO2-eq or lower.</a> Australia will unconditionally reduce our emissions by 5% below 2000 levels by 2020, and by up to 15% by 2020 if there is a global agreement which falls short of securing atmospheric stabilisation at 450 ppm CO2-eq and under which major developing economies commit to substantially restrain emissions and advanced economies take on commitments comparable to Australia's.	559	12	1.3%
South Africa	34% cut below BAU by 2020 and 42% below BAU by 2025	<a href="#">34% deviation below the BAU emissions growth trajectory by 2020 and a 42% deviation below the BAU emissions trajectory by 2025</a>	423	18	1.0%
Kazakhstan	15% economy-wide reduction in emission below 1992 levels in 2020	<a href="#">15% economy-wide reduction in emission below 1992 levels in 2020</a>	206	29	0.5%
Israel	20% reduction of GHG emissions by 2020 below BAU.	<a href="#">Strive for target of 20% reduction of GHG emissions by 2020 below BAU.</a> Main actions for achieving reduction target include: <ul style="list-style-type: none"> <li>• 10% renewable energy for electricity generation by 2020</li> <li>• 20% reduction of electricity consumption by 2020</li> </ul>	82	52	0.2%

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New Zealand	10-20% economy-wide cut below 1990 levels in 2020, as a part of global agreement	<p><a href="#">New Zealand is prepared to take on a responsibility target for greenhouse gas emissions reductions of between 10 per cent and 20 per cent below 1990 levels by 2020</a>, if there is a comprehensive global agreement. This means:</p> <ul style="list-style-type: none"> <li>• the global agreement sets the world on a pathway to limit temperature rise to not more than 2° C;</li> <li>• developed countries make comparable efforts to those of New Zealand;</li> <li>• advanced and major emitting developing countries take action fully commensurate with their respective capabilities;</li> <li>• there is an effective set of rules for land use, land-use change and forestry (LULUCF); and</li> <li>• there is full recourse to a broad and efficient international carbon market</li> </ul>	79	53	0.2%
Ethiopia	Listed a variety of national actions	<p><a href="#">Listed a variety of national actions</a>, including:</p> <ul style="list-style-type: none"> <li>• Hydro, wind, geothermal, off-grid renewables, and biofuels</li> <li>• Reforestation, reduced deforestation, and reduced forest degradation</li> <li>• Waste management</li> </ul>	74	54	0.2%
Morocco	Listed a variety of national actions	<p><a href="#">Listed a variety of national actions</a>, including:</p> <ul style="list-style-type: none"> <li>• Install new renewable energy capacity: 300MW of micro-hydro power by 2030; 40 MW of hydro by 2013; 2,000 MW of solar power between 2015-2020; and 5,000 MW wind power by 2030</li> <li>• Install 870 MW of combined cycle generation plants</li> <li>• Promote improved energy efficiency through efficient lighting and efficiency labeling</li> <li>• Strengthen vehicle technical standards, modernize vehicle fleets through subsidies, promote train and urban transport systems</li> </ul>	61	61	0.1%

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		<ul style="list-style-type: none"> <li>• Develop wind energy and energy efficiency by industrial sector partners</li> <li>• Recovery of methane and other greenhouse gas emissions</li> <li>• Treatment of 80%-90% of waste water by 2020-2030</li> <li>• Improve agricultural yield</li> <li>• Reforest 1 million hectares by 2030</li> </ul>			
Norway	30-40% economy-wide cut below 1990 levels in 2020	<u>30-40% economy-wide cut below 1990 levels in 2020.</u> As part of a global and comprehensive agreement for the period beyond 2012 where major emitting Parties agree on emissions reductions in line with the 2 degrees Celsius target, Norway will move to a level of 40% reduction for 2020.	52	64	0.12%
Singapore	Reduction in GHG emissions by 16%, below BAU	<u>Reduction of GHG emissions 16% below BAU levels in 2020, contingent on a legally binding global agreement in which all countries implement their commitments in good faith.</u>	48	65	0.11%
Madagascar	Listed a variety of national actions	<u>Listed a variety of national actions</u> , including: <ul style="list-style-type: none"> <li>• Developing renewable energy including hydropower, solar, wind, and biomass</li> <li>• Improving and reducing fuel wood use and increasing use of efficient lighting</li> <li>• Implementing reforestation, restoration and biodiversity protection activities</li> <li>• Increasing use of biofuels and sustainable transport.</li> </ul>	31	75	0.07%
Croatia	5% economy-wide cut below 1990 levels in 2020	<u>Cut economy-wide emissions to 5% below 1990 levels.</u> Temporary target for Croatia. Upon the accession of Croatia to the European Union, the Croatian target shall be replaced by arrangement in line with and part of the European Union mitigation effort.	31	77	0.07%

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Mongolia	Listed a variety of national actions	<a href="#">Listed a variety of national actions</a> , including: <ul style="list-style-type: none"> <li>• Increasing PV, solar, and wind utilization</li> <li>• Improving energy efficiency</li> </ul>	30	78	0.07%
Jordan	Listed a variety of national actions	<a href="#">Listed a variety of national actions</a> , including: <ul style="list-style-type: none"> <li>• Railway, light rail, and freight modernization</li> <li>• Removed customs and taxes on energy saving technologies</li> <li>• Energy efficiency programs</li> <li>• Adoption of renewable energy law</li> <li>• Solid waste management</li> <li>• Improved farming practices</li> </ul>	23	84	0.05%
Republic of Congo	Listed a variety of national actions	<a href="#">Listed a variety of national actions</a> , including: <ul style="list-style-type: none"> <li>• Increasing energy efficiency, boosting hydroelectric potential and improving electric distribution infrastructure</li> <li>• Developing REDD activities, sustainable forestry management, forest certification and cogeneration from value added forest concessions.</li> <li>• Developing municipal waste management plans.</li> <li>• Adopting agricultural production better suited to climate variability and increasing use of nitrogen fixing species.</li> </ul>	17	95	0.04%
Moldova	Listed a variety of national actions	<a href="#">A reduction of no less than 25% of the base year (1990) level total national GHG emissions have to be achieved by 2020 year through implementation of global economical mechanisms focused on the climate change mitigation, in accordance with the Convention's principles and provisions.</a>	13	99	0.03%

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Macedonia	Listed a variety of national actions	<a href="#">Listed a variety of national actions</a> , including: <ul style="list-style-type: none"> <li>• Increasing the share of renewables in the energy sector</li> <li>• Improvement of energy efficiency</li> <li>• Industrial energy transformation</li> <li>• Improvements of public and urban transport</li> </ul>	11	104	0.03%
Costa Rica	Carbon neutral by 2021 (with int'l assistance)	<a href="#">Long term economy-wide transformational effort to enable carbon-neutrality that will help the country to significantly deviate from business as usual GHG emissions projected scenarios from now on up to 2021 and beyond</a>	10	108	0.02%
Armenia	Listed a variety of national actions	<a href="#">Listed a variety of national actions</a> , including: <ul style="list-style-type: none"> <li>• Increasing renewable energy use</li> <li>• Improving energy efficiency</li> <li>• Expansion of electrical transport</li> </ul>	7.4	115	0.02%
Togo		<a href="#">Listed a variety of national actions</a> , including: <ul style="list-style-type: none"> <li>• Increase forest cover from 7% of land surface in 2005 to 30% by 2050</li> <li>• Boost urban and rural energy efficiency</li> <li>• Improve use of traditional energy sources like biomass and carbon</li> <li>• Promote solar, wind, biogas and biofuel energy</li> </ul>	6	119	0.01%
Sierra Leone	Listed a variety of national actions	<a href="#">Listed a variety of national actions</a> , including: <ul style="list-style-type: none"> <li>• Establishment of protected area reserves and improve forest governance</li> <li>• Expanding clean energy utilization</li> </ul>	4	125	0.01%
Maldives	Achieve carbon neutrality by 2020	<a href="#">Achieve carbon neutrality as a country by 2020</a>	0.7	140	>0.01%
Marshall Islands	40% CO <sub>2</sub> reduction from 2009 levels by 2020, subject to assistance	<a href="#">40% reduction of CO<sub>2</sub> emissions below 2009 levels by 2020, pursuant to the 2009 National Energy Policy and Energy Action Plan, and with subject to the provision of adequate international support</a>	n/a	n/a	n/a



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Bhutan	Remain carbon neutral	<a href="#">Ensure that emissions don't exceed their sequestration capacity.</a>	n/a	n/a	n/a

(1) Click on the blue hyperlink for the official country letter. All country submissions of actions are available at: <http://unfccc.int/home/items/5265.php>  
(2) Source: World Resources Institute, Climate Analysis Indicator Tool (CAIT), available at: <http://cait.wri.org/>. All values are from 2005 emissions data. Values include all six greenhouse gases and emissions and sequestration from land-use, land-use change, and forestry.