



2022 G20 Bali Summit Final Compliance Report

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From 17 November 2022 to 21 August 2023

6 September 2023

Feedback, as always, is welcome and is kept anonymous.
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15. Climate: Paris Agreement

“[Mindful of our leadership role], we reaffirm our steadfast commitments, in pursuit of the objective of UNFCCC [United Nations Framework Convention of Climate Change], to tackle climate change by strengthening the full and effective implementation of the Paris Agreement and its temperature goal [reflecting equity and the principle of common but differentiated responsibilities and respective capabilities in light of different national circumstances].”

G20 Leaders’ Bali Declaration

Assessment

	No Compliance	Partial Compliance	Full Compliance
Argentina			+1
Australia			+1
Brazil			+1
Canada			+1
China			+1
France		0	
Germany			+1
India			+1
Indonesia		0	
Italy			+1
Japan			+1
Korea			+1
Mexico		0	
Russia			+1
Saudi Arabia		0	
South Africa		0	
Türkiye		0	
United Kingdom			+1
United States			+1
European Union			+1
Average		+0.70 (85%)	

Background

The G20 first addressed the issue of climate change at its inaugural summit in Washington DC in 2008.²⁸⁹⁰ It is recognized that, “climate change represents an urgent and potentially irreversible threat to human societies and the planet, and thus requires to be urgently addressed by all [countries].”

The Paris Agreement was adopted by the participants of the 21st session of the Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC) on 12 December 2015. The provisions agreed upon by the parties are aimed at keeping the global average temperature below 2°C above pre-industrial levels. In addition, the parties pledged to “pursue efforts” to limit the temperature increase to 1.5°C. COP participants also agreed to provide national inventory reports on anthropogenic greenhouse gas emissions and provide other information necessary for assessing the implementation progress. The Agreement entered into force on 4 November 2016 after the threshold of 55 ratifying parties responsible for at least 55 per cent of the world’s greenhouse gas emissions had been met.

Many commitments made at past G20 summits have either dealt directly with climate change, or have had climate change as an underlying theme. These include commitments relating to clean energy, food and agriculture, among others. G20 leaders addressed the issue of climate change and Paris agreement implementation at every summit.

²⁸⁹⁰ Declaration of the Summit on Financial Markets and the World Economy, G20 Information Centre (Toronto) 15 November 2008. Access Date: 7 February 2023. <http://www.g20.utoronto.ca/2008/2008declaration1115.html>

In 2023 in Bali G20 leaders reaffirmed their steadfast commitments, in pursuit of the objective of UNFCCC, to tackle climate change by strengthening the full and effective implementation of the Paris Agreement and its temperature goal, reflecting equity and the principle of common but differentiated responsibilities and respective capabilities in light of different national circumstances.

Commitment Features

Paris Agreement stipulates three major goals:

1. Holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C above pre-industrial levels, recognizing that this would significantly reduce the risks and impacts of climate change;
2. Increasing the ability to adapt to the adverse impacts of climate change and foster climate resilience and low greenhouse gas emissions development, in a manner that does not threaten food production;
3. Making finance flows consistent with a pathway towards low greenhouse gas emissions and climate-resilient development.²⁸⁹¹

Thus, to fully comply with the commitment the G20 members must take action on all the three main issue areas of the Paris Agreement, that is to take action aimed at greenhouse gases emissions reduction; to support climate adaptation and resilience; to mobilize climate finance from a wide variety of sources.

Scoring Guidelines

-1	G20 member does not take action on any of the three main issue areas of the Paris Agreement: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization
0	G20 member takes action to address one or two of the three main issue areas of the Paris Agreement: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization
+1	G20 member takes action to implement the Paris Agreement addressing all three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization

*Compliance Director: Alexander Ignatov
Lead Analyst: Irina Popova*

Argentina: +1

Argentina has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 23 November 2022, the second meeting of the board of the REDD+ Argentina Results-Based Payments project was held.²⁸⁹² The project manages the financing of USD82 million provided by the Green Climate Fund. At the meeting, the board presented the state of progress in the implementation of the project; discussed the adjustments made to the 2022 annual operating plan and presented the operation plans for 2023.

On 23 January 2023, the Ministry of Environment and Sustainable Development, together with the Ministry of Environment and Climate Action of Portugal, organized the seminar “Environmental and Climate Action Luso-Argentina.”²⁸⁹³ It was part of the international cooperation work carried out by both

²⁸⁹¹ Paris Agreement, United Nations (New York City) 12 December 2015. Access Date: 7 February 2023.

https://unfccc.int/sites/default/files/english_paris_agreement.pdf

²⁸⁹² The second meeting of the board of the REDD+ Argentina Results-Based Payments project was held, Government of Argentina (Buenos Aires) 23 November 2022. Translation provided by the analyst. Access Date: 10 April 2023.

<https://www.argentina.gob.ar/noticias/se-realizo-la-segunda-reunion-de-la-junta-del-proyecto-de-pagos-basados-en-resultados-redd>.

²⁸⁹³ Argentina and Portugal strengthen bilateral cooperation in environmental matters, Government of Argentina (Buenos Aires) 23 January 2023. Translation provided by the analyst. Access Date: 10 April 2023.

<https://www.argentina.gob.ar/noticias/argentina-y-portugal-fortalecen-la-cooperacion-bilateral-en-materia-ambiental>.

institutions. The conference was a space for the exchange of experiences and actions promoted by both countries in terms of climate policies, management of urban solid waste, energy efficiency, renewable energy, conservation and sustainable use of ecosystems, as well as water and sanitation.

On 23 January 2023, the Government issued Decree 31/2023, which establishes the principles of sustainability applied to the buildings of the National Public Sector.²⁸⁹⁴ The execution of the initiative will be progressive and a guide for its implementation will be offered. It is expected that in a period of two years the buildings will comply with the first basic sustainability actions, such as the installation of bicycle racks, the separation of waste at source and the purchase of efficient household appliances, among other measures. Meanwhile, within six years, more comprehensive practices will be carried out, such as the installation of panels and green roofs and the acquisition of hybrid vehicles.

On 31 January 2023, the Secretary of Energy and the Argentine Development Bank signed the agreement that allows the launching of a soft credit line within the framework of Law No. 27,424 which created the Fund for the Distributed Generation of Renewable Energies. The law formalized the granting of credits at a preferential rate for the purchase of equipment, installation and commissioning of renewable energy distributed generation projects.²⁸⁹⁵

On 14 February 2023, Governor of San Juan Sergio Uñac and Secretary of Industry and Productive Development José Ignacio de Mendiguren held a working meeting in which they discussed the different productive projects underway in the province and advanced the final details of a provincial project for the construction of a new solar energy park.²⁸⁹⁶ With a capacity of 50 MW, this project will allow the San Juan company Energía Provincial Sociedad del Estado to become a power generator and strengthen the provincial productive network. Due to its scale, the new Ullum Alfa solar energy park in San Juan, which will be built by IMPSA, will also guarantee access to financing for the construction of new 350 MW solar parks that are projected for 2024 in the province.

On 28 February 2023, the Ministry of Environment and Sustainable Development participated in an event with the R+D+i Agency, within the framework of the “Agreement for the Climate Action,” which sought to create a space for dialogue with technology-based companies involved in the issue of climate change.²⁸⁹⁷ The meeting was held at the Faculty of Exact and Natural Sciences of the University of Buenos Aires, within the framework of the public-private platform for resilience and carbon neutrality by 2050, called the “Agreement for Climate Action.” This space makes it possible to consolidate a roadmap based on a shared vision to advance in compliance with the Paris Agreement. The proposal was designed to recognize the work carried out by the private sector in climate matters, as well as its role as a key partner for the fulfillment of national goals, strategies and measures established in the National Plan for Adaptation and Mitigation to Climate Change. It consists of five lines of work: the strengthening of capacities for climate action; the voluntary reporting of initiatives and climate plans in the National Information System on Climate Change; climate action in corporate social responsibility strategies; the dialogue for the articulation of climate priorities in value chains; and the dialogues on carbon markets.

On 2 March 2023, the Ministry of Environment and Sustainable Development issued the first two licenses within the framework of Resolution 14/2023, which provides for the environmental requirements to be

²⁸⁹⁴ The national government established that public buildings are sustainable, Government of Argentina (Buenos Aires) 23 January 2023. Translation provided by the analyst. Access Date: 10 April 2023. <https://www.argentina.gob.ar/noticias/el-gobierno-nacional-establecio-que-los-edificios-publicos-sean-sostenibles>.

²⁸⁹⁵ Energy and BICE launch soft credit line for the installation of solar panels, Government of Argentina (Buenos Aires) 31 January 2023. Translation provided by the analyst. Access Date: 10 April 2023. <https://www.argentina.gob.ar/noticias/energia-y-el-bice-lanzan-linea-de-creditos-blandos-para-la-instalacion-de-paneles-solares>.

²⁸⁹⁶ Uñac and Mendiguren analyze the progress of a strategic renewable energy project in San Juan, Government of Argentina (Buenos Aires) 14 February 2023. Translation provided by the analyst. Access Date: 10 April 2023. <https://www.argentina.gob.ar/noticias/unac-y-mendiguren-analizan-el-avance-de-un-proyecto-estrategico-de-energia-renovable-en-san>.

²⁸⁹⁷ Environment advances in the "Agreement for Climate Action", Government of Argentina (Buenos Aires) 28 February 2023. Translation provided by the analyst. Access Date: 10 April 2023. <https://www.argentina.gob.ar/noticias/ambiente-avanza-en-el-acuerdo-para-la-accion-climatica>.

met by companies that produce and market motorcycles.²⁸⁹⁸ The purpose of the standard is to regulate the emissions generated by these vehicles and, in this way, reduce the environmental damage caused.

On 13 March 2023, the Ministry of Environment and Sustainable Development delivered solar cookers to the province of Jujuy, which will be allocated to native communities and educational establishments in the region.²⁸⁹⁹ The initiative seeks to generate capacities in the local population in the use of alternative energies, with an emphasis on solar thermal energy and biodiversity conservation, and contribute to responding to the needs of the communities in terms of energy efficiency.

On 23 March 2023, the workshop “Argentina: sustainable finance and carbon markets” led by World Bank consultant Aleandra Scafati was held at the National Securities Commission (CNV), aimed at its staff and members of the Sustainable Finance Table led by the Ministry of Economy.²⁹⁰⁰ This workshop was delivered within the framework of compliance with the CNV’s Sustainability Strategy and had the collaboration of the World Bank. The objective of the organization is to be able to disseminate knowledge about a completely new market such as carbon in its different variants, and, as a regulator, to be prepared to generate domestic regulations that allow it to be channeled through stock market activity in the future.

On 28 March 2023, the National Secretariat of Energy and the National Institute of Agricultural Technology began the third stage of delivery of solar ovens within the framework of PERMER.²⁹⁰¹ On this occasion, 2,633 pieces of equipment will be distributed among small rural producers in the provinces of Chubut, La Pampa, La Rioja, Jujuy, Mendoza, Neuquén, Río Negro, Salta, San Juan, Santa Cruz, and Tucumán.

On 28 March 2023, the CNV participated in a panel on green finance in Paraguay.²⁹⁰² It provided a synthesis of green, social and environmental bonds in Argentina, from the beginning in 2018, to the approval of specific guidelines, responsible investment strategies and the development of the ByMA special panel. The director of the CNV highlighted the evolution of the issuance of green bonds, which in the country have already exceeded USD1,000 million in nominal amounts. So far, 28 green bonds, 12 social bonds, five sustainable and five sustainability-linked bonds have been issued, and 76 per cent of them are related to renewable energy.

On 30 March 2023, Minister of Environment and Sustainable Development Juan Cabandié together with Ambassador of France to Argentina Claudia Scherer-Effosse and Director of the French Development Agency Lorena Chara signed a cooperation agreement for the implementation of the National Plan for Adaptation and Mitigation to Climate Change.²⁹⁰³ The agreement contemplates the financing of technical for USD300,000. The amount will be allocated to the analysis and design of tools for the economic valuation of the costs of implementing climate actions and impacts of climate change between 2030 and 2050; the construction of long-term decarbonization scenarios; the assembly of methodological strategies for compensation for biodiversity loss and the design of the national biodiversity strategy and action plan.

²⁸⁹⁸ Ambiente granted the first Environmental Configuration licenses for Motorcycle Vehicles, Government of Argentina (Buenos Aires) 3 March 2023. Translation provided by the analyst. Access Date: 10 April 2023. <https://www.argentina.gob.ar/noticias/ambiente-otorgo-las-primeras-licencias-de-configuracion-ambiental-de-motovehiculos>.

²⁸⁹⁹ Ambiente delivered solar cookers to native communities and educational establishments in Jujuy, Government of Argentina (Buenos Aires) 13 March 2023. Translation provided by the analyst. Access Date: 10 April 2023. <https://www.argentina.gob.ar/noticias/ambiente-entrego-cocinas-solares-comunidades-originarias-y-establecimientos-educativos-en>.

²⁹⁰⁰ Carbon market: opportunities and advantages in Argentina, Government of Argentina (Buenos Aires) 23 March 2023. Translation provided by the analyst. Access Date: 10 April 2023. <https://www.argentina.gob.ar/noticias/mercado-de-carbono-opportunidades-y-ventajas-en-argentina>.

²⁹⁰¹ The Ministry of Energy completes the delivery of solar ovens in 11 provinces, Government of Argentina (Buenos Aires) 28 March 2023. Translation provided by the analyst. Access Date: 10 April 2023. <https://www.argentina.gob.ar/noticias/la-secretaria-de-energia-completa-la-entrega-de-boyeros-solares-en-11-provincias-0>.

²⁹⁰² The CNV participated in a panel on green finance in Paraguay, Government of Argentina (Buenos Aires) 28 March 2023. Translation provided by the analyst. Access Date: 10 April 2023. <https://www.argentina.gob.ar/noticias/la-cnv-participo-en-un-panel-de-finanzas-verdes-de-paraguay>.

²⁹⁰³ Cabandié sealed an agreement with the French Development Agency, Government of Argentina (Buenos Aires) 30 March 2023. Translation provided by the analyst. Access Date: 10 April 2023. <https://www.argentina.gob.ar/noticias/cabandie-sello-un-convenio-con-la-agencia-francesa-de-desarrollo>.

On 4 April 2023, Minister of Economy Sergio Massa signed agreements with the Netherlands, Germany, Canada, Israel, Finland, Denmark and Austria, within the framework of the refinancing of the debt that Argentina maintains with the Paris Club.²⁹⁰⁴ Minister Massa highlighted that Argentina aspires to finalize payments in 2028, and affirmed “these agreements, which are aimed at guaranteeing and sustaining the recovery of economic stability, are key to promoting exports and that projects of infrastructure that we are carrying out can access international financing.”

On 12 April 2023, Argentina and Chile announced a new programme for high school students designed to attract adolescents’ attention to ecological degradation and nurture a generation that would be more focused and committed to tackling climate change.²⁹⁰⁵ Additionally, the programme promotes a cross-country research and cooperation of Argentina and Chile.

Throughout May and June 2023, Argentina submitted and participated in the preparation of 17 reports, including daily reports from 2023 Conference of the Parties to the Basel, Rotterdam, and Stockholm Conventions (BRS COPs), 2nd Session of the Intergovernmental Negotiating Committee to Develop an International Legally Binding Instrument on Plastic Pollution, Including in the Marine Environment (INC-2), 2nd Session of the United Nations Habitat Assembly, Bonn Climate Change Conference - June 2023, Further resumed 5th Session of the Intergovernmental Conference (IGC) on BBNJ, 18th Session of the UNFF, which not only contributed to the worldwide database concerning climate change and related topics.²⁹⁰⁶

On 20 June 2023, Argentina contributed a ministerial declaration for the Assembly “Effective, inclusive and sustainable multilateral actions to tackle climate change, biodiversity loss and pollution” to the United Nations Environment Programme (UNEP), in which it emphasised the importance of the joint fight against aforementioned climate-related problems and pledged to adopt a Pact for the Future at the Future Summit in New York in September 2024.²⁹⁰⁷

On 7 and 9 June, Delegate to the Bonn Climate Change conference María del Pilar Bueno participated in informal consultation during the Nairobi work programme on impacts, vulnerability, and adaptation to climate change.²⁹⁰⁸ Ultimate results of the meeting were recognition of the role played by the promotion of knowledge across members of the UNEP and by the collaboration. Additionally, Delegate del Pilar Bueno participated in informal consultation with the UK delegate, which concern numerous questions, but especially highlighted the need for balanced representation of the Global South and the need for resources to accomplish the agenda.

On 6, 7, 9 and 13 June, Delegate Lucas di Pietro participated in the meeting on the matters related to the Santiago Network under the Warsaw International Mechanism for Loss and Damage associated with Climate Change impacts.²⁹⁰⁹

²⁹⁰⁴ Argentina signed agreements with seven countries within the framework of the agreement with the Paris Club, Government of Argentina (Buenos Aires) 4 April 2023. Translation provided by the analyst. Access Date: 10 April 2023.

<https://www.argentina.gob.ar/noticias/argentina-firmo-convenios-con-siete-paises-en-el-marco-del-acuerdo-con-el-club-de-paris>.

²⁹⁰⁵ New Program for High School Students Will Explore Climate Complexity in Chile and Argentina, the Columbia Climate School 12 April 2023. Access Date: 20 June 2023 <https://news.climate.columbia.edu/2023/04/12/new-program-for-high-school-students-will-explore-climate-complexity-in-chile-and-argentina/>

²⁹⁰⁶ Summary report, 5–15 June 2023, UN Framework Convention on Climate Change – UNFCCC, 19 June 2023. Access Date: 23 June 2023 <https://enb.iisd.org/bonn-climate-change-conference-sbi58-sbsta58-summary>

²⁹⁰⁷ [Argentina Contribution] Zero Draft, April 2023 Ministerial Declaration for the Sixth Session of the United Nations Environment Assembly “Effective, Inclusive, and Sustainable Multilateral Actions to Tackle Climate Change, Biodiversity Loss and Pollution, United Nations Environmental Programme 20 June 2023. Translation provided by the analyst Access date: 23 June 2023 <https://wedocs.unep.org/handle/20.500.11822/42833>

²⁹⁰⁸ Summary report, 5–15 June 2023, UN Framework Convention on Climate Change – UNFCCC, 19 June 2023. Access Date: 23 June 2023 <https://enb.iisd.org/bonn-climate-change-conference-sbi58-sbsta58-summary>

²⁹⁰⁹ Summary report, 5–15 June 2023, UN Framework Convention on Climate Change – UNFCCC, 19 June 2023. Access Date: 23 June 2023 <https://enb.iisd.org/bonn-climate-change-conference-sbi58-sbsta58-summary>

On 26 July 2023, Argentina hosted the workshop on transparency in climate action with the aim to develop effective policies to reduce emissions and achieve sustainable development objectives on the basis of the Initiative for Climate Action Transparency (ICAT). The workshop resulted in a report on the changes occurred from its launch in 2023, as well as set the ground for future ICAT projects.²⁹¹⁰

On 7 July 2023, the Government approved the National Energy Transition Plan to 2030, which includes 6 objectives and targets which, in case of achieving, would lead to a transition to clean energy and improvement of climate.²⁹¹¹ Along with targets, standards were established to ensure the implementation, such as not exceeding a net emission of 349 million tons of carbon dioxide, reducing energy demand, etc.

During the compliance period Argentina has taken actions on all three aspects of the Paris Agreement implementation.

Thus, Argentina receives a score of +1.

Analyst: Irina Popova

Australia: +1

Australia has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 18 November 2022, Australia joined the world first Net Zero Government Initiative launched at the 27th United Nations Climate Change Conference.²⁹¹² The initiative commits governments around the world to lead by example and achieve net zero emissions across their operations.

On 19 December 2022, the Government launched the new grant program worth AUD200 million as to enable the local households to store affordable solar energy and share excess power with neighbors.²⁹¹³ The program is designed as to lower electricity bills, fulfill the 2050 Net Zero ambition, and also reduce pressure on the electricity grid. The program is aimed to cover at least 100,000 households across the country.

On 27 January 2023, Australia and Germany entered a new partnership as to facilitate development of hydrogen technologies.²⁹¹⁴ The parties claimed to invest AUD50 million and EUR50 million respectively in new projects including construction of methanol production plants, implementation of new types of electrolyzers, etc. as well as establishment of supply chains between the two countries.

On 31 January 2023, Australia and the Netherlands signed a Memorandum of Understanding (MoU) on cooperation in renewable hydrogen supply.²⁹¹⁵ Australia committed to advance shared clean energy interests and support emerging renewable energy industries. The MoU covers standards and certification schemes in hydrogen trade, infrastructure development, innovations in the targeted sphere, safety and social regulations for hydrogen.

²⁹¹⁰ Argentina closing workshop focuses on transparency for mitigation and sustainable development. Initiative for Climate Action Transparency 31 July 2023. Access date: 7 August 2023 <https://climateactiontransparency.org/argentina-closing-workshop/>

²⁹¹¹ The government of Argentina has approved the National Energy Transition Plan to 2030. Global Factor 12 July 2023. Access date: 15 August 2023 <https://www.globalfactor.com/en/the-government-of-argentina-has-approved-the-national-energy-transition-plan-to-2030/>

²⁹¹² Australia joins international Net Zero Government Initiative, Australian Government Department of Climate Change, Energy, the Environment and Water (Canberra) 18 November 2022. Access Date: 11 April 2023. <https://www.dcceew.gov.au/about/news/australia-joins-international-net-zero-government-initiative>

²⁹¹³ Community battery grant guidelines now available, Australian Government Department of Climate Change, Energy, the Environment and Water (Canberra) 19 December 2022. Access Date: 11 April 2023. <https://www.dcceew.gov.au/about/news/community-battery-grant-guidelines-now-available>

²⁹¹⁴ Australia and Germany strengthen hydrogen partnership, Australian Government Department of Climate Change, Energy, the Environment and Water (Canberra) 27 January 2023. Access Date: 10 April 2023. <https://www.dcceew.gov.au/about/news/australia-and-germany-strengthen-hydrogen-partnership>

²⁹¹⁵ Australia and the Netherlands sign milestone renewable hydrogen agreement, Australian Government Department of Climate Change, Energy, the Environment and Water (Canberra) 31 January 2023. Access Date: 11 April 2023. <https://www.dcceew.gov.au/about/news/australia-netherlands-sign-milestone-renewable-hydrogen-agreement>

On 21 February 2023, the Government announced its intention to launch new grant programs to facilitate small and medium business conversion to energy efficient models of operation.²⁹¹⁶ The government plans to invest AUD16 million in the first round of grant competition. Each grant values between AUD10,000 and AUD25,000. The government said to finance installation of heat pumps, lighting upgrades, space and water heating improvements, energy monitoring systems, etc.

On 16 March 2023, the Government allocated AUD6 million in grants to help local farmers reduce methane emissions from livestock.²⁹¹⁷ The funded measures include but not limited to implementation of low-emission feed supplements such as seaweed; conducting a long-lasting investigation on effects of seaweed-based feeding on methane emissions; and evaluation of commercially available methane-reducing supplements to sheep.

Australia takes action to implement the Paris Agreement addressing all three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization.

Thus, Australia receives a score of +1.

Analyst: Alexander Ignatov

Brazil: +1

Brazil has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 4 January 2023, Minister of Environment and Climate Change Marina Silva announced the creation of the National Authority for Climate Security within the Ministry.²⁹¹⁸ She said that the creation of the National Authority for Climate Security would be formalized by March 2023. Additionally, the National Council on Climate Change is to be created and headed by the President of the Republic, with the participation of all ministries, states and municipalities. The purpose of the National Climate Security Authority is to produce funding for the execution and implementation of the National Policy on Climate Change, as well as to regulate and monitor the implementation of actions related to sectoral policies and targets for mitigation, adaptation and promotion of resilience to climate change.

On 13 February 2023, the integration of data on food security into the AdaptaBrasil platform was announced.²⁹¹⁹ The AdaptaBrasil platform consists of an information system on climate change risks in Brazil that offers subsidies for decision-making in the planning of adaptation actions. The Ministry of Science, Technology and Innovation (MCTI), the National Institute for Space Research and Embrapa Agricultura Digital committed to work together to improve climate risk analysis on the topic of food security, and include it in the AdaptaBrasil MCTI platform.

On 29 March 2023, President Luiz Inácio Lula da Silva signed a Decree №11456, updating and expanding the Program in Support of Technological Development of the Semiconductor Industry, by including the photovoltaic segment, focused on solar energy production.²⁹²⁰ The program offers various benefits, such

²⁹¹⁶ Opening soon: energy efficiency grants to support small and medium businesses, Australian Government Department of Climate Change, Energy, the Environment and Water (Canberra) 21 February 2023. Access Date: 10 April 2023.

<https://www.dcceew.gov.au/about/news/opening-soon-energy-efficiency-grants-support-small-medium-businesses>

²⁹¹⁷ MERIL program awards \$6 million to support reduced emissions from livestock, Australian Government Department of Climate Change, Energy, the Environment and Water (Canberra) 16 March 2023. Access Date: 10 April 2023.

<https://www.dcceew.gov.au/about/news/meril-program-awards-6-million-support-reduced-emissions-livestock>

²⁹¹⁸ Marina Silva announces the creation of the National Climate Security Authority, Brazilian Government (Brasilia) 5 January 2023. Access Date: 11 April 2023. <https://www.gov.br/pt-br/noticias/meio-ambiente-e-clima/2023/01/marina-silva-anuncia-a-criacao-da-autoridade-nacional-de-seguranca-climatica>.

²⁹¹⁹ MCTI, INPE and Embrapa will integrate data on food security in the AdaptaBrasil platform Information should enhance climate risk analysis in relation to climate change adaptation, Brazilian Government (Brasilia) 13 February 2023. Access Date: 11 April 2023. <https://www.gov.br/mcti/pt-br/acompanhe-o-mcti/noticias/2023/02/mcti-inpe-e-embrapa-integrarao-dados-sobre-seguranca-alimentar-na-plataforma-adaptabrasil>.

²⁹²⁰ Government guarantees tax exemption for semiconductors and includes solar energy in benefit, Brazilian Government (Brasilia) 30 March 2023. Access Date: 11 April 2023. <https://www.gov.br/pt-br/noticias/energia-minerais-e-combustiveis/2023/03/decreto-do-governo-garante-isencao-fiscal-para-semicondutores-e-inclui-energia-solar-em-beneficio>.

as tax cuts, to the producers of semiconductors and other electronics, with estimated BRL600 million in incentives allocated for 2023.

On 29 March 2023, the Resolution №16 of the National Energy Policy Council was published, containing the Federal Government's new guidelines on the expansion of biodiesel mixture in diesel fuel sold in Brazil.²⁹²¹ The measure increased the share of biodiesel in diesel fuel from 10 per cent to 12 per cent. It is also expected to go up to 15 per cent by 2026.

On 11 April 2023, the Government relaunched the work of the National Council of Traditional Peoples under the Ministry of Environment and Climate Change.²⁹²² The Council's objectives include "promoting the sustainable development of traditional peoples and communities" and "promoting and carrying out actions to combat all forms of prejudice, religious intolerance, sexism and environmental racism." According to National Secretary of Traditional Peoples and Communities and Sustainable Rural Development Edel Moraes, "it is necessary to recognize the outstanding role played by traditional peoples in environmental conservation and in the consolidation of policies to combat deforestation and to mitigate and adapt to climate change."

On 24 May 2023, a new Partnership for Green and Inclusive Growth was launched by Brazil and the United Kingdom. Brazil and the United Kingdom declared their commitment and willingness to address the global climate crisis, promote sustainable development and foster a fair and inclusive ecological transition.²⁹²³ Both also reiterated the importance of fulfilling the 2030 Agenda and its Sustainable Development Goals (SDGs). The Partnership is envisaged to have 5 pillars: Climate (Implementation of Nationally Determined Contributions and adaptation strategies - including for the protection of oceans and coastal zones, as well as Net Zero Goals and Targets), Forests (Furthering biodiversity objectives, combating deforestation and illegal gold supply chains, promoting "socio-bioeconomics" and non-timber products, with a view to promoting the rights and engagement of Indigenous Peoples and Local Communities), Agriculture, Energy, and Finance.

On 5 June 2023, President Luiz Inácio Lula da Silva and Minister of Environment Marina Silva announced a package of measures to expand environmental protection policies.²⁹²⁴ The package includes the Action Plan for Prevention and Control of Deforestation in the Legal Amazon, as well as five decrees on combating climate change and two on the creation of Conservation Units. The president also announced vetoes to provisions that weakened the protection of the Atlantic Forest and the correction of acts of the previous government that resulted in the reduction of ambition in the country's climate goal. The president announced that his government was making the necessary corrections in the Brazilian contribution to the Paris Agreement and Nationally Determined Contribution, as well as resuming the commitment made by Brazil in 2015.

On 4 August 2023, Minister of the Environment and Climate Change Marina Silva signed a Technical Cooperation Agreement with the ministries of Agrarian Development and Family Farming and Development and Social Assistance, Family and Fight against Hunger during a meeting of the Council for Economic, Social and Sustainable Development.²⁹²⁵ The Agreement provides for additional technical assistance, socio-environmental rural extension, environmental conservation and socio-productive inclusion activities in the territories served by the Bolsa Verde program. The Bolsa Verde program, launched

²⁹²¹ Government officializes expansion of biodiesel mixture in diesel sold in the country, Brazilian Government (Brasilia) 30 March 2023. Access Date: 11 April 2023. <https://www.gov.br/pt-br/noticias/energia-minerais-e-combustiveis/2023/03/governo-oficializa-ampliacao-da-mistura-de-biodiesel-no-diesel-vendido-no-pais>.

²⁹²² Government resumes National Council of Traditional Peoples and Communities, Brazilian Government (Brasilia) 11 April 2023. Access Date: 11 April 2023. <https://www.gov.br/mma/pt-br/assuntos/noticias/governo-retoma-conselho-nacional-dos-povos-e-comunidades-tradicionais>.

²⁹²³ Brazil-UK Joint Statement on Green and Inclusive Growth, Brazilian Government (Brasilia) 11 April 2023. Access Date: 28 June 2023. <https://www.gov.br/mma/pt-br/declaracao-conjunta-brasil-reino-unido-sobre-crecimento-verde-e-inclusivo>.

²⁹²⁴ Government launches plan to combat deforestation in the Amazon and announces environmental acts, Brazilian Ministry of the Environment (Brasilia) 5 June 2023. Access Date: 28 June 2023. <https://www.gov.br/mma/pt-br/governo-lanca-plano-de-combate-ao-desmatamento-na-amazonia-e-anuncia-atos-ambientais>.

²⁹²⁵ New agreement will bring technical assistance to Bolsa Verde Program communities, Brazilian Ministry of the Environment (Brasilia) 4 August 2023. Access Date: 23 August 2023. <https://www.gov.br/mma/pt-br/novo-acordo-vai-levar-assistencia-tecnica-a-comunidades-do-programa-bolsa-verde>.

in 2011, provides payments of BR600 and is to be accompanied by a series of public policies, such as specialized technical assistance and rural extension for the peoples and communities, most affected by climate change.

On 17 August 2023, the Government issued a Decree establishing, the Amazon Energy Program. The aim of the program is to reduce the use of diesel oil in energy production and greenhouse gas emissions in the Amazon region by replacing the energy generation process with renewable sources.²⁹²⁶ Around BR5 billion in investments are planned to enable the transition. According to Minister of Mines and Energy Alexandre Silveira emissions of around 1.5 million tons of carbon dioxide can be avoided by reducing or replacing diesel oil as the main source for generating electricity in the Amazon region.

During the monitoring period Brazil has taken actions to advance the implementation of the Paris Agreement, addressing all its three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization.

Thus, Brazil receives a score of +1.

Analyst: Andrei Sakharov

Canada: +1

Canada has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 21 November 2022, Minister of Environment and Climate Change Steven Guilbeault announced up to CAD109 million in funding over five years for forty projects across Canada from the Nature Smart Climate Solutions Fund.²⁹²⁷

On 24 November 2022, Minister of Emergency Preparedness Bill Blair and Minister of Official Languages and Minister responsible for the Atlantic Canada Opportunities Agency Ginette Petitpas Taylor on behalf of Minister Guilbeault launched the Strategy while also announcing the federal government's action and investment plan for the immediate future.²⁹²⁸

On 15 December 2022, in Montreal at the 15th Conference of the Parties to the United Nations Convention on Biological Diversity, Minister Guilbeault and Ukraine Minister of Environmental Protection and Natural Resources Ruslan Strilets signed a Memorandum of Understanding to increase bilateral cooperation on climate action, environmental protection and nature conservation.²⁹²⁹

On 24 February 2023, Minister Guilbeault announced a second project type eligible to generate offset credits under Canada's Greenhouse Gas Offset Credit System.²⁹³⁰ The new protocol, Reducing Greenhouse Gas Emissions from Refrigeration Systems, encouraged businesses to upgrade their refrigeration and air-

²⁹²⁶ President Lula signs decree establishing the Amazon Energy Program, Brazilian Government (Brasilia) 17 August 2023. Access Date: 23 August 2023. <https://www.gov.br/mme/pt-br/assuntos/noticias/decreto-que-institui-programa-energias-da-amazonia-e-assinado-pelo-presidente-lula>.

²⁹²⁷ The Government of Canada invests in projects to tackle the twin crises of biodiversity loss and climate change across Canada, Government of Canada (Ottawa) 21 November 2022 Access Date: 30 March 2023 <https://www.canada.ca/en/environment-climate-change/news/2022/11/the-government-of-canada-invests-in-projects-to-tackle-the-twin-crises-of-biodiversity-loss-and-climate-change-across-canada.html>

²⁹²⁸ Canada's National Adaptation Strategy will protect communities and build a strong economy, Government of Canada (Ottawa) 24 November 2022 Access Date: 30 March 2023 <https://www.canada.ca/en/environment-climate-change/news/2022/11/canadas-national-adaptation-strategy-will-protect-communities-and-build-a-strong-economy.html>

²⁹²⁹ At COP15, Canada and Ukraine commit to working together on environmental protection and climate action, Government of Canada (Ottawa) 15 December 2022 Access Date: 30 March 2023 <https://www.canada.ca/en/environment-climate-change/news/2022/12/at-cop15-canada-and-ukraine-commit-to-working-together-on-environmental-protection-and-climate-action.html>

²⁹³⁰ Canada putting a freeze on greenhouse gas emissions from refrigeration systems with launch of new Offset Credit System Protocol, Government of Canada (Ottawa) 24 February 2023 Access Date: 30 March 2023 <https://www.canada.ca/en/environment-climate-change/news/2023/02/canada-putting-a-freeze-on-greenhouse-gas-emissions-from-refrigeration-systems-with-launch-of-new-offset-credit-system-protocol18.html>

conditioning systems to ones that use refrigerants with lower global warming potentials by rewarding them with offset credits that they could sell to generate revenue.

On 28 February 2023, Member of Parliament Joanne Thompson, on behalf of Minister Guilbeault announced an investment of up to CAD1.7 million to support the Corporate Climate Plan of the city of St. John's.²⁹³¹ The provincial government would contribute over CAD1.4 million for this initiative, and the city of St. John's would contribute over CAD1.1 million as part of a broader investment of almost CAD6.7 million to improve energy performance in 17 city-owned facilities.

On 20 March 2023, Minister Guilbeault announced the Government support for a net-zero emissions economy in Quebec while speaking at Americana 2023, one of the largest environmental events in North America.²⁹³² Minister Guilbeault outlined the increasing role businesses are playing to achieve net-zero emissions.

On 17 April 2023, Minister Guilbeault and Minister Wilkinson have concluded this year's G7 Ministers' Meeting on Climate, Energy, and Environment, which took place in Sapporo, Japan, from April 15–16.²⁹³³ The Ministers came to champion increased ambition on climate action, nature protection, and pollution reduction, while at the same time advancing global energy security and seizing economic opportunities for Canadian businesses, workers, communities, and Indigenous peoples.

On 8 August 2023, Parliamentary Secretary to the Minister of Environment Terry Duguid announced an investment of up to CAD8.4 million from the Low Carbon Economy Fund to support climate action, reduce greenhouse gas emissions, and build a strong economy for Yukoners.²⁹³⁴ This investment under the Low Carbon Economy Challenge Fund will help the Government of Yukon construct renewable heating systems in government buildings. These heating systems aim to reduce the use of propane and light fuel oil to reduce reliance on fossil fuels.

During the monitoring period Canada has taken actions to advance the implementation of the Paris Agreement, addressing all its three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization.

Thus, Canada receives a score of +1.

Analyst: Nikita Shilikov

China: +1

China has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 2 December 2022, the Meteorological Administration reported that two new meteorological satellites started their operation.²⁹³⁵ According to the message of the State Council of the People's Republic of China,

²⁹³¹ Canada and Newfoundland and Labrador invest in climate action projects in support of the city of St. John's Corporate Climate Plan, Government of Canada (Ottawa) 28 February 2023. Access Date: 30 March 2023 <https://www.canada.ca/en/environment-climate-change/news/2023/02/canada-and-newfoundland-and-labrador-invest-in-climate-action-projects-in-support-of-the-city-of-st-johns-corporate-climate-plan.html>

²⁹³² Government of Canada confirms support for Quebec's transition to net zero at Americana 2023, Government of Canada (Montréal) 20 March 2023 Access Date: 30 March 2023 <https://www.canada.ca/en/environment-climate-change/news/2023/03/government-of-canada-confirms-support-for-quebecs-transition-to-net-zero-at-americana-2023.html>

²⁹³³ Ministers Guilbeault and Wilkinson wrap up G7 Ministers' Meeting in Japan focused on climate action, clean energy, and nature protection, Government of Canada (Ottawa) 17 April 2023 Access Date: 30 March 2023 <https://www.canada.ca/en/environment-climate-change/news/2023/04/ministers-guilbeault-and-wilkinson-wrap-up-g7-ministers-meeting-in-japan-focused-on-climate-action-clean-energy-and-nature-protection.html>

²⁹³⁴ Cutting pollution and making life more affordable: Government of Canada announces up to \$8.4 million to switch to cleaner energy in the Yukon, The Canadian Government (Ottawa) 8 August 2023 Access Date 24 August 2023 <https://www.canada.ca/en/environment-climate-change/news/2023/08/cutting-pollution-and-making-life-more-affordable-government-of-canada-announces-up-to-84-million-to-switch-to-cleaner-energy-in-the-yukon.html>

²⁹³⁵ China's two meteorological satellites put into operation, State Council of the People's Republic of China (Beijing) 2 December 2022. Access Date: 11 April 2023. http://english.www.gov.cn/news/topnews/202212/02/content_WS6389b7b2c6d0a757729e3f56.html.

the trial operation of the satellites demonstrated the reduced forecast deviation, strengthened interaction between observation and forecast, and enhanced accuracy of path prediction.

On 26 December 2022, the State Forestry and Grassland Administration announced the adoption of the National Desertification Prevention and Control Plan.²⁹³⁶ According to the plan, 6.7 million hectares of land affected by desertification will be reclaimed by 2025, and 12.4 million hectares will be reclaimed by 2030. The document also identified seven areas where spreading deserts need to be pushed back, including the mountains of the Beijing-Tianjin-Hebei region, the areas around the Kubuqi Desert in the Inner Mongolia autonomous region and the Mu Us Desert in Shaanxi province.²⁹³⁷

On 30 December 2022, the State Council announced that the Baihetan-Zhejiang 800-kilovolt ultra-high-voltage direct current power transmission project was completed.²⁹³⁸ According to the message, the new power line transmits the clean electricity generated at the Baihetan hydropower station to eastern Zhejiang Province through a transmission line stretching 2,121 km.

On 3 January 2023, the State Council reported the adoption of a new guideline for water and soil conservation. The guideline, jointly released by the general offices of the Communist Party of China Central Committee and the State Council, details China's targets to strengthen water and soil conservation by 2025 and 2035.²⁹³⁹ By 2025, China aims to improve its institutional mechanism and system for soil and water conservation, enhance management efficiency, and effectively control soil erosion caused by human activities in key regions. By 2035, a new soil conservation system is to be formed, with human-induced soil erosion under control, and soil erosion in key areas comprehensively negated. Areas without soil erosion should account for 75 per cent of the country's territory by that date, according to the document.

On 19 January 2023, the State Council Information Office released the "China's Green Development in the New Era" white paper.²⁹⁴⁰ The document lists seven key areas of China's green transformation – "commitment to green growth, green territorial configuration, adjustment and improvement of the industrial structure, application of green production methods, eco-friendly living, institutions and mechanisms for green development, and efforts to build the earth into a beautiful home."

On 21 March 2023, the State Council announced the expansion of China's renewable energy capacity in the first two months of 2023 by 8.5 per cent year on year.²⁹⁴¹ According to the Council's data, In January-February 2023, the total investment of China's major power companies in solar energy nearly tripled from a year before, reaching to CNY28.3 billion.

On 25 May 2023, the National Energy Administration reported that from January to April 2023 62.51 million kW worth of new wind and photovoltaic power capacity were installed in the country. China's wind

²⁹³⁶ The "National Desertification Prevention and Control Plan (2021-2030)" was officially issued and implemented, Teller Report 26 December 2022. Access Date: 11 April 2023. [https://www.tellerreport.com/news/2022-12-26-the-national-desertification-prevention-and-control-plan-\(2021-2030\)-was-officially-issued-and-implemented.SkQSIM3UYs.html](https://www.tellerreport.com/news/2022-12-26-the-national-desertification-prevention-and-control-plan-(2021-2030)-was-officially-issued-and-implemented.SkQSIM3UYs.html).

²⁹³⁷ National plan aims to push back desertification, State Council of the People's Republic of China (Beijing) 20 January 2023. Access Date: 11 April 2023.

http://english.www.gov.cn/policies/policywatch/202301/20/content_WS63c9fd57c6d0a757729e5ec2.html.

²⁹³⁸ Major Chinese power transmission project now fully operational, State Council of the People's Republic of China (Beijing) 30 December 2022. Access Date: 11 April 2023.

http://english.www.gov.cn/news/topnews/202212/30/content_WS63ae7fa4c6d0a757729e4f04.html.

²⁹³⁹ China issues guideline to strengthen conservation of water, soil, State Council of the People's Republic of China (Beijing) 3 January 2023. Access Date: 11 April 2023.

http://english.www.gov.cn/policies/latestreleases/202301/03/content_WS63b43533c6d0a757729e50d1.html.

²⁹⁴⁰ China issues white paper on green development, State Council of the People's Republic of China (Beijing) 30 September 2022. Access Date: 11 April 2023.

http://english.www.gov.cn/statecouncil/ministries/202301/20/content_WS63c9eef2c6d0a757729e5e80.html.

²⁹⁴¹ China's renewable energy capacity expands in Jan-Feb, State Council of the People's Republic of China (Beijing) 2 December 2022. Access Date: 11 April 2023.

http://english.www.gov.cn/archive/statistics/202303/21/content_WS6419a1acc6d0f528699db768.html.

and photovoltaic power generation reached 482.8 billion kWh during the period, up by 26.8 per cent year on year.²⁹⁴²

On 22 August 2023, the State Council Information Office announced the planned implementation of “a batch of demonstration projects featuring advanced green and low-carbon technologies, which will provide strong support in achieving its carbon peak and neutrality goals.”²⁹⁴³ According to the message, the projects are to focus on promoting the use of non-fossil energy in the fields of industry and construction, new and efficient types of power grids and energy storage, as well as carbon dioxide capture.

During the monitoring period China has taken actions to advance the implementation of the Paris Agreement, addressing all its three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization.

Thus, China receives a score of +1.

Analyst: Andrei Sakharov

France: 0

France has partially complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 8 December 2022, France joined a coalition to step up cooperative efforts on transboundary waters.²⁹⁴⁴

On 21 February 2023, Minister of the Ecological Transition and the Cohesion of the territories Amélie de Montchalin announced that she would chair the first committee of anticipation and hydrological monitoring on 23 February.²⁹⁴⁵ The goal is to inform the representatives of the users on the current hydrological situation and projected potentially significant drought risks.

On 22 May 2023, in line with the work of France Green Nation, coordinated by the General Secretariat for Ecological Planning, an unprecedented steering committee (COFIL) structured around seven themes, was set up for the health sector (health and medico-social) to control its environmental impacts and ensure the ecological transformation of the sector in the long term.²⁹⁴⁶ The commitments made at COFIL will be included in an ecological planning agreement, which will bind stakeholders in autumn 2023. They will be taken around seven aspects: Building and energy management; Sustainable procurement; Eco-responsible care; Waste from the sector; Training and research in ecological transformation; Sustainable mobility; Environmental impact of digital tools.

France takes action to address climate adaptation and resilience, and climate finance mobilization but lacks coordinated work on gas emission reduction.

Thus, France receives a score of 0.

Analyst: Nikita Shilikov

²⁹⁴² China's newly installed capacity of wind, photovoltaic power rises, State Council of the People's Republic of China (Beijing) 25 May 2023. Access Date: 28 June 2023. http://english.www.gov.cn/news/202305/25/content_WS646f1a21c6d03ffcca6ed610.html.

²⁹⁴³ China to implement demonstration projects featuring green, low-carbon technologies, State Council of the People's Republic of China (Beijing) 22 August 2023. Access Date: 23 August 2023. http://english.www.gov.cn/news/202308/22/content_WS64e4aae9c6d0868f4e8dec1d.html.

²⁹⁴⁴ Environment – France joins a coalition to step up cooperative efforts on transboundary waters (8 December 2022), Government of France (Paris) 9 December 2022. Translation provided by the analyst. Access Date: 10 April 2023 <https://www.diplomatie.gouv.fr/en/french-foreign-policy/climate-and-environment/news/article/environment-france-joins-a-coalition-to-step-up-cooperative-efforts-on>

²⁹⁴⁵ The Government mobilized to anticipate the risks of drought, Government of France (Paris) 21 February 2023. Translation provided by the analyst. Access Date: 10 April 2023 <https://www.gouvernement.fr/actualite/le-gouvernement-mobilise-pour-anticiper-les-risques-de-secheresse>

²⁹⁴⁶ Planification écologique du système de santé - Feuille de route, Ministry of Health and Prevention 23 May 2023 Access Date: 27 June 2023 <https://sante.gouv.fr/actualites/actualites-du-ministere/article/planification-ecologique-du-systeme-de-sante-feuille-de-route>

Germany: +1

Germany has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 17 November 2022, Minister of Foreign Affairs Annalena Baerbock and Minister of Environment Steffi Lemke announced at the 27th United Nations Climate Change Conference that Germany would increase its contribution to the Global Adaptation Fund by EUR60 million.²⁹⁴⁷ Germany is thus the largest donor country to this multilateral instrument for climate adaptation financing.

On 30 November 2022, Minister for Economic Affairs and Climate Action Robert Habeck announced Germany would leave the Energy Charter Treaty.²⁹⁴⁸ He called this an important step for more climate action, as the Energy Charter Treaty is “a barrier to the energy transition and is simply incompatible with the goals of the Paris climate agreement.”

On 15 December 2022, Parliamentary State Secretary at the Federal Ministry for Economic Affairs and Climate Action and SME [Small and Medium-Sized Enterprises] Commissioner of the Federal Government Michael Kellner presented the action plan entitled “SMEs, Climate Action and Transformation” at a dialogue event with representatives of the SME sector.²⁹⁴⁹ The action plan contains measures which the Federal Ministry for Economic Affairs and Climate Action will deploy to help SMEs in their transition to more sustainability and climate action. The action plan highlights the following aspects: energy prices, decarbonization and sustainability, skilled workers, funding, sustainability reporting, circular economy, and sector-specific measures.

On 19 December 2022, the European Energy Council endorsed a proposal by the European Commission on the regulation of methane emissions from the energy sector.²⁹⁵⁰ The aim is to reduce methane emissions by a minimum of 58 per cent by 2030 in comparison to 2020 levels. The proposed regulation covers the gas, oil and coal sectors. According to the proposal, operators of fossil energy infrastructure would regularly measure and report methane emissions, repair methane leaks in pipelines and other components, and reduce the routine venting and flaring of gas. Minister Habeck mentioned that methane is one of the most climate-damaging greenhouse gases in the Earth’s atmosphere, and current efforts to reduce emissions are far from sufficient. Germany had been advocating that the rules for the energy sector within the EU should in future also apply to methane emissions from energy imports in view of the fact that around 80 per cent of energy-related methane emissions are produced outside the EU.

On 3 May 2023, German Federal Chancellor Olaf Scholz announced the German government would make EUR2 billion available for the Green Climate Fund (GCF).²⁹⁵¹ This made Germany the first major donor to announce its contribution for the upcoming pledging conference for the Green Climate Fund that will take place in Bonn on 5 October 2023.

²⁹⁴⁷ Germany increases funding for global adaptation fund by 60 million euro, German Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection (Berlin) 17 November 2022. Access Date: 27 April 2023. <https://www.bmu.de/en/pressrelease/germany-increases-funding-for-global-adaptation-fund-by-60-million-euro-the-federal-foreign-office-and-the-federal-ministry-for-the-environment-are-increasing-their-contribution-to-the-international-adaptation-fund-by-30-million-euro-each>.

²⁹⁴⁸ Minister Habeck: “Cabinet takes key decisions for the future”, German Federal Ministry for Economic Affairs and Climate Action (Berlin) 30 November 2022. Access Date: 27 April 2023. <https://www.bmwk.de/Redaktion/EN/Pressemitteilungen/2022/11/20221130-minister-habeck-cabinet-takes-key-decisions-for-the-future.html>.

²⁹⁴⁹ Transition to climate action and sustainability in the SME sector: SME Commissioner Michael Kellner presents comprehensive action plan, German Federal Ministry for Economic Affairs and Climate Action (Berlin) 15 December 2022. Access Date: 27 April 2023. <https://www.bmwk.de/Redaktion/EN/Pressemitteilungen/2022/12/20221215-transition-to-climate-action-and-sustainability-in-the-sme-sector.html>.

²⁹⁵⁰ Adoption of binding rules on methane emissions from the European energy sector, German Federal Ministry for Economic Affairs and Climate Action (Berlin) 19 December 2022. Access Date: 27 April 2023. <https://www.bmwk.de/Redaktion/EN/Pressemitteilungen/2022/12/20221219-adoption-of-binding-rules-on-methane-emissions-from-the-european-energy-sector.html>.

²⁹⁵¹ Germany commits two billion euros for climate action in developing countries, German Federal Ministry for Economic Cooperation and Development (Berlin) 3 May 2023. Access Date: 27 June 2023. <https://www.bmz.de/en/news/press-releases/green-climate-fund-germany-two-billion-euros-climate-change-153570>.

On 10 June 2023, the Government of Germany and the Government of China signed the Memorandum of Understanding on the Establishment of the Dialogue and Cooperation Mechanism on Climate Change and Green Transition.²⁹⁵² According to the document, the two countries will carry out dialogue and enhance cooperation to achieve practical results in the field of green and low-carbon development, with the goal of promoting green and low-carbon transition towards the accelerated implementation of climate action, individually, jointly and within multilateral fora, according to different national circumstances.

Germany has taken action to implement the Paris Agreement addressing all three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization.

Thus, Germany receives a score of +1.

Analyst: Andrey Shelepov

India: +1

India has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 22 November 2022, the National Institution for Transforming India, NTPC Energy Technology Research Alliance and the National Centre of Excellence in Carbon Capture and Utilisation, IIT Bombay launched the assessment of CO₂ Geological Storage Potential in India.²⁹⁵³ As a part of this initiative, an assessment of carbon dioxide storage potential in select Coalbed Methane rich coalfields will be carried out, and the CO₂ Storage Atlas will be produced. The project is envisaged as a part of India's mitigation strategy to facilitate the transition towards a low-carbon energy economy and subsequently to a net-zero emission level.

On 13 December 2022, the Department of Agriculture and Farmers Welfare and Department of Space signed a memorandum of Understanding on the development of the Krishi-Decision Support System (Krishi-DSS) using geospatial technologies and related databases for enhancing evidence-based decision-making capability of all the stakeholders in the agriculture sector.²⁹⁵⁴ On the same day, the data products and services of RISAT-1A satellite (also known as EOS-04, Indian Radar Imaging Satellite, designed to provide high quality images for applications in agriculture, forestry, hydrology, including flood mapping) were formally released for the user community.

On 4 January 2023, the Government approved the National Green Hydrogen Mission, with a goal of producing 5 million metric tonnes of hydrogen fuel annually by 2030.²⁹⁵⁵ The Mission included the following objectives: facilitating demand through exports and domestic utilization; providing incentives for manufacturing of electrolyzers and production of green hydrogen; Pilot Projects for steel, mobility, shipping, decentralized energy applications, hydrogen production from biomass, hydrogen storage, etc.; development of Green Hydrogen Hubs; support for infrastructure development; establishing a robust framework of regulations and standards; research and development programme; skill development programme; and public awareness and outreach programme.

On 23 February 2023, Chair and Managing Director of Indian Renewable Energy Development Agency Shri Pradip Kumar Das announced that Indian Renewable Energy Development Agency was planning to

²⁹⁵² Memorandum of Understanding between The Government of the Federal Republic of Germany and The Government of the People's Republic of China on the Establishment of the Dialogue and Cooperation Mechanism on Climate Change and Green Transition, German Federal Ministry for Economic Affairs and Climate Action (Berlin) 20 June 2023. Access Date: 27 June 2023. <https://www.bmwk.de/Redaktion/DE/Downloads/P-R/paper-ger-chn-climate-and-transformation-dialogue.pdf>

²⁹⁵³ NETRA NTPC, NITI Aayog, and the National Centre of Excellence in Carbon Capture & Utilisation (NCoE-CCU), IIT Bombay launches the assessment of 'CO₂ Geological Storage Potential', Government of India (New Delhi) 22 November 2022. Access Date: 11 April 2023. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1878184>.

²⁹⁵⁴ Memorandum of Understanding signed on developing Krishi-Decision Support System using RISAT and VEDAS, Government of India (New Delhi) 13 December 2022. Access Date: 11 April 2023. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1883182>.

²⁹⁵⁵ National Green Hydrogen Mission targets a production capacity of 5 Million Metric Tonnes (MMT) per annum by 2030, Government of India (New Delhi) 7 February 2023. Access Date: 11 April 2023. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1897043>.

establish an office in Gujarat's GIFT City to finance renewable energy projects in foreign currency, while avoiding foreign exchange hedging costs.²⁹⁵⁶

On 28 March 2023, the Government approved the construction of seven solar parks with a total capacity of 3730 MW.²⁹⁵⁷

On 5 April 2023, the Government announced its intention to add 50 GW of renewable energy capacity annually for a five-year period, in order to achieve the target of 500 GW of renewable power capacity by 2030.²⁹⁵⁸

On 15 May 2023, the Ministry of New and Renewable Energy announced "major reforms" in the Approved List of Models and Manufactures for Solar Photovoltaic Modules.²⁹⁵⁹ The reform includes: an 80 per cent reduction in application fees; up to 70 per cent reduction in inspection fees; certain exemptions from factory inspection; permission for the manufacturers to withdraw their applications prior to factory inspection, with 90 per cent refund of application fee; increase in enlistment validity from 2 years to 4 years; introduction of the following minimum module efficiency thresholds for enlistment: 20 per cent for Utility/grid scale power plants, 19.5 per cent for rooftop and solar pumping, 19 per cent for solar lighting. These changes should, according to the Ministry of New and Renewable Energy Secretary Shri B. S. Bhalla, "enhance the ease of doing business and help in ramping up the domestic production of solar photovoltaic modules."

On 9 June 2023, the Ministry of New and Renewable Energy and Solar Energy Corporation of India Limited (SECI) signed a Power Sale Agreement with GRIDCO Odisha, Government of Odisha under which the latter was to purchase 600 MW of wind power from. The agreement is signed in accordance with the provisions of Inter State Transmission System Connected Wind Power Projects Scheme. The scheme provides for the opportunity to transmit energy from states rich in renewable energy to energy poor states.²⁹⁶⁰

On 1 August 2023, the Ministry of New and Renewable Energy announced that under Green Energy Corridor Phase-II a project had been approved for setting up transmission lines capacity substations, transferring renewable energy power of approx. 4000 MW capacity in the state of Tamil Nadu.²⁹⁶¹

On 9 August 2023, the extension of the "Development of Solar Parks and Ultra Mega Solar Power Projects" scheme was announced by the Ministry of New and Renewable Energy.²⁹⁶² The scheme has been extended up to FY 2025-26 without any additional financial implication. The Ministry informed that the Government had sanctioned 50 Solar Parks with aggregate capacity of 37,990 MW in 12 States, with 11 solar parks with aggregate capacity of 8,521 MW completed and further seven solar parks with aggregate capacity of 3,985 MW partially completed.

²⁹⁵⁶ IREDA plans to finance Renewable Energy projects in foreign currency, Government of India (New Delhi) 23 February 2023. Access Date: 11 April 2023. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1902184>

²⁹⁵⁷ Government have approved 7 Solar Parks with a cumulative capacity of 3730 MW: Union Power & NRE Minister Shri R. K. Singh, Government of India (New Delhi) 28 March 2023. Access Date: 11 April 2023. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1911476>.

²⁹⁵⁸ Government declares plan to add 50 GW of renewable energy capacity annually for next 5 years to achieve the target of 500 GW by 2030, Government of India (New Delhi) 5 April 2023. Access Date: 11 April 2023. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1913789>.

²⁹⁵⁹ MNRE announces major reforms in the Approved List of Models and Manufactures for Solar Photovoltaic Modules, Government of India (New Delhi) 15 May 2023. Access Date: 28 June 2023. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1924175>.

²⁹⁶⁰ Solar Energy Corporation of India to supply 600 MW Wind Power to GRIDCO Odisha under Power Sale Agreement, Government of India (New Delhi) 9 June 2023. Access Date: 28 June 2023. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1931095>.

²⁹⁶¹ 4,000 MW Renewable Energy Power Project being set up in Tamil Nadu, Government of India (New Delhi) 1 August 2023. Access Date: 23 August 2023. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1944687>.

²⁹⁶² Solar Projects of 10.2 GW Developed in Solar Parks: Union Minister for New & Renewable Energy and Power, Government of India (New Delhi) 9 August 2023. Access Date 23 August 2023. <https://www.pib.gov.in/Pressreleaseshare.aspx?PRID=1947131>

²⁹⁶² 4,000 MW Renewable Energy Power Project being set up in Tamil Nadu, Government of India (New Delhi) 1 August 2023. Access Date: 23 August 2023. <https://www.pib.gov.in/PressReleasePage.aspx?PRID=1947131>.

During the monitoring period India has taken actions to advance the implementation of the Paris Agreement, addressing all its three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization.

Thus, India receives a score of +1.

Analyst: Andrei Sakharov

Indonesia: 0

Indonesia has partially complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On December 2022, the Ministry of Energy and Mineral Resources (MEMR) published the Regulation 16/2022 Guidelines for Carbon Economic Value Implementation for the Power Generation Sub-sector, indicating that emission trading for coal-fired power plants (PLTU) may commence very soon.²⁹⁶³ The MEMR Reg 16/2022 offers more clarification on the procedures for implementing carbon trading in the power plant sub-sector, specifically emission trading for PLTU which requires a greenhouse gas emission ceiling. It sets out the timeline for establishing an emission ceiling technical approval for PLTU, the procedure for carrying out emission offset for new and renewable energy power plants, and several reporting obligations that must be carried out by business actors.

On 22 February 2023, the MEMR announced the launch of a mandatory, intensity-based emissions trading system (ETS) for the power generation sector. The new system will cover facilities with a production capacity of more than 100 MW, though smaller coal and fossil fuel plants may also be included at a later point. It is estimated that allowances worth a total of 20 million ton of carbon dioxide equivalent will be allocated. The ETS will be implemented in three phases. The first phase will run from 2023 to 2024 and only cover coal-fired power plants. In the second (2025-2027) and third (2028-2030) phases, the government plans to expand the coverage of the ETS to oil and gas-fired power plants and other coal-fired power plants not connected to the grid.²⁹⁶⁴

On 3 March 2023, Minister of Energy and Mineral Resources Afrin Tasrif promulgated Regulation No. 2 of 2023 on the Implementation of CCS [Carbon Capture and Storage] and CCUS [Carbon Capture, Utilization and Storage] in Upstream Oil and Natural Gas Business Activities. The promulgation of the Regulation reflects the Indonesian Government recognition of CCS and CCUS technology as a promising means of reducing carbon emissions to achieve net-zero emissions by 2060 while concurrently boosting Indonesia's oil and gas output to 1 billion barrels of oil and 12 billion cubic feet of gas per day. The Regulation is intended cover the entire process of setting up a CCS/CCUS activity, "starting from the design to the implementation stage." The Regulation includes regulation of: 1) the rights, obligations and liabilities of contractors to implement CCS/CCUS technology in their oil and gas working areas; 2) the mechanisms for approval of plans and implementation of CCS/CCUS projects; 3) health, safety, environmental and social aspects of the CCS/CCUS project; 4) the ongoing monitoring, measurement, reporting and verification requirements; 5) monetization of the CCS/CCUS projects; and etc.²⁹⁶⁵

On 13 April 2023, Minister of Environment and Forestry Siti Nurbaya Bakar underlined Indonesia's strong commitment to handling climate change by strengthening the Nationally Determined Contributions (NDCs) during a meeting with a United States Congressional delegation.²⁹⁶⁶ The NDC target increase is based on the latest national policy progress related to climate change, including Forestry and Other Land

²⁹⁶³ Client Alert – MEMR Reg 16/2022, Umbra (Jakarta), 16 January 2023. Access Date: 30 April 2023.

<https://umbra.law/2023/01/16/client-alert-for-memr-reg-16-2022/>

²⁹⁶⁴ Indonesia launches emissions trading system for power generation sector, International Carbon Action Partnership (Berlin), 22 February 2023. Access Date: 30 April 2023. <https://icapcarbonaction.com/en/news/indonesia-launches-emissions-trading-system-power-generation-sector>

²⁹⁶⁵ Indonesia Introduces CCUS/CCS Regulation to Capture CCUS/CCS Development, JD SUPRA (New York), 3 March 2023. Access Date: 30 April 2023. <https://www.jdsupra.com/legalnews/indonesia-introduces-ccus-ccs-1590107/>

²⁹⁶⁶ Govt conveys Indonesia's strong commitment to handling climate change, Antara News (Jakarta), 13 April 2023. Access Date: 15 June 2023. <https://en.antaranews.com/news/278646/govt-conveys-indonesias-strong-commitment-to-handling-climate-change>

Uses Net Sink 2030, accelerating the use of electric vehicles, B40 policies, increasing action in the waste management sector, and increasing targets for the industrial and agricultural sectors.

On 1 June 2023, the Government allocated millions of dollars in green financing to facilitate reduction of carbon emissions.²⁹⁶⁷ The allocated sums have been invested in a project that is destroying rainforest in Papua. The money has been used to help an Indonesian conglomerate, Medco Group construct a biomass power plant that makes electricity from burning wood. As a result of the financing, it plans to expand its plantations by at least 2,500 hectares – seven times the size of New York’s Central Park – and cut down more rainforest.

Indonesia has made considerable progress in developing policies and providing funds for climate change mitigation and adaptation, while still taking some actions that may cause harm to climate and environment.

Thus, Indonesia receives a score of 0.

Analyst: Pavel Doronin

Italy: +1

Italy has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement and its temperature goal.

On 17 November 2022, the Ministry of Environment and Energy Security published the 2022 Guidebook on Fuel Saving and CO₂ Emissions.²⁹⁶⁸ The Guidebook, developed jointly with the Ministry of Business and Made in Italy and the Ministry of Infrastructure and Transport, contains information about the harmful effects of greenhouse gas emissions on climate and defines a number of recommendations for car users to raise awareness on the conscious purchase of cars that have a lower greenhouse gases emission rate. The Guidebook is aimed at enhancing public contribution to the fight against climate change and to achieving the goal of carbon neutrality provided for by the Paris Agreement and the European Green Deal.

On 2 December 2022, Minister of Environment and Energy Security Gilberto Pichetto and Minister of Energy Transition and Sustainable Development of Morocco Leila Benali signed a Memorandum of Understanding (MoU) on environmental issues.²⁹⁶⁹ The MoU amplifies the areas of bilateral cooperation to the objectives of the three Rio Conventions (United Nations Framework Convention on Climate Change, Convention on Biological Diversity and Convention to Combat Desertification) and the 2030 Agenda on Sustainable Development, with a special focus on mitigation and adaptation measures relevant for the protection of biodiversity, fight against desertification and restoration of the territory, and for the process of reducing greenhouse gas emissions through the energy transition to green and renewable sources in the Mediterranean region.

On 22 December 2022, the Ministry of Environment and Energy Security signed an agreement with the World Bank on the disbursement of EUR10 million to the Adaptation Fund of the Kyoto Protocol and the Paris Agreement to finance concrete projects and programs of adaptation to climate change in particularly vulnerable developing countries.²⁹⁷⁰ The Italian contribution follows the commitment made at the 26th UN Climate Change Conference along with other donor countries to double the financial support for climate change adaptation by 2025. The priority areas for financing are as follows: agriculture, coastal area

²⁹⁶⁷ “Green” finance bankrolls forest destruction in Indonesia, Climate Change News (Broadstairs), 1 June 2023. Access Date: 15 June 2023. <https://www.climatechangenews.com/2023/06/01/deforestation-indonesia-biomass-green-finance-papua-medco-indigenous/>

²⁹⁶⁸ Guidebook on Fuel Saving and CO₂ emissions – 2022 Edition, Ministry of Environment and Energy Security (Rome) 17 November 2022. Translation provided by the analyst. Access Date: 15 March 2023. <https://www.mase.gov.it/notizie/guida-sul-risparmio-di-carburante-e-sulle-emissioni-di-co2-delle-autovetture-edizione-2022>

²⁹⁶⁹ Energy: Italy and Morocco relaunch the MoU on environment, Ministry of Environment and Energy Security (Rome) 2 December 2022. Translation provided by the analyst. Access Date: 15 March 2023. <https://www.mase.gov.it/notizie/energia-italia-e-marocco-rinnovano-intesa-ambientale>

²⁹⁷⁰ Ministry disburses EUR10 million to finance climate change adaptation projects in developing countries, Ministry of Environment and Energy Security (Amman) 29 November 2022. Translation provided by the analyst. Access Date: 4 February 2023. <https://www.mase.gov.it/comunicati/dal-mase-10-milioni-progetti-di-adattamento-ai-cambiamenti-climatici-nei-paesi-di>

management, rural development, disaster risk reduction, food security, multi-sector projects and water sector management.

On 23 December 2022, the Ministry of Environment and Energy Security adopted a decree on allocating EUR200 million to finance 29 projects in nine Italian regions aimed at the construction of efficient district heating networks that use heat produced from renewable sources at high-efficiency plants.²⁹⁷¹ The investment will help create new networks or expand existing ones for 253 km, which will help reduce emissions equivalent to 70,000 tons of oil. Minister Pichetto explained that in order to achieve Italy's climate objectives, large-scale action is required, including the support for efficient district heating to replace the use of fossil fuels and thus reduce polluting emissions, especially in urban areas. He highlighted that the Ministry takes an important step forward to improving energy efficiency and towards the reduction of consumption related to air conditioning in buildings, in line with the commitments undertaken both at the European and international level.

On 30 December 2022, the Ministry of Environment and Energy Security adopted a decree that supports the creation of hydrogen valleys with an allocation of EUR450 million.²⁹⁷² This investment comes as part of the National Plan for Recovery and Resilience and aims to support the production of green hydrogen in abandoned industrial areas, especially in Southern Italy, with the objective of stimulating the reduction of greenhouse gas emissions in industries, small and medium-sized enterprises (SMEs) and local transport. The measure promotes local economic growth with a view to decarbonization and greater sustainability and allows to proceed with the contracts by the first quarter of 2023. In the same timeframe, the Ministry will also allocate EUR2 billion for the use of hydrogen in the hard-to-abate industry, thus contributing to emission cuts in fossil fuel reliant industries.

On 9 January 2023, the Ministry of Environment and Energy Security approved a EUR500 million investment to modernize 22 distribution and 9 transmission electricity networks with a view to making them resilient to natural disasters.²⁹⁷³ Such an improvement will reduce the duration and magnitude of power outages in the event of extreme weather conditions and ensure networks' adaptation to the negative effects of climate change. As a result of the investment, by 2026, the initiative will help improve the resilience of the electricity grid for a total of 8,200 km, 1,700 of which are related to the transmission network and 6,500 to the distribution one. This measure also doubles the investment target set by the National Plan for Recovery and Resilience (4,000 km). The interventions will cover 5,200 km in Northern and Central Italy and 3,000 km in Southern Italy.

On 15 February 2023, the Ministry of Infrastructure and Transport launched an online platform "Retrofit" intended to facilitate the shift from cars with an internal combustion engine to electric vehicles with zero emissions.²⁹⁷⁴ The platform will allow car owners to request a financial compensation for the installation of an electrical engine on vehicles originally registered with an internal combustion engine. The maximum compensation amounts up to 60 per cent of the replacement cost (maximum EUR3,500) to which is added a compensation of 60 per cent of the expenses related to the registration tax at the Public Automobile Register, stamp duty and provincial transcription tax. All those who have replaced the thermal engine of their vehicle with an electric motor from 10 November 2021 to 31 December 2022 will be able to access the compensation by applying through the Retrofit platform.

²⁹⁷¹ National Plan for Recovery and Resilience: Ministry approves 29 district heating projects, Ministry of Environment and Energy Security (Rome) 23 December 2022. Translation provided by the analyst. Access Date: 16 February 2023.

<https://www.mase.gov.it/notizie/pnrr-mase-libera-29-progetti-su-teleriscaldamento-0>

²⁹⁷² A new decree provides industry with 450 million for hydrogen. Gava: "We promote sustainability and development together", Ministry of Environment and Energy Security (Rome) 30 December 2022. Translation provided by the analyst. Access Date: 1 March 2023. <https://www.mase.gov.it/notizie/450-milioni-l-idrogeno-nell-industria-pubblicato-il-decreto-gava-favoriamo-insieme>

²⁹⁷³ National Plan for Recovery and Resilience: Ministry approves 500 million euros for projects to make electricity networks more resilient to natural disasters, Ministry of Environment and Energy Security (Rome) 9 January 2023. Translation provided by the analyst. Access Date: 16 February 2023. <https://www.mase.gov.it/notizie/pnrr-mase-approva-500-mln-di-euro-progetti-rendere-reti-elettriche-piu-resistenti-calamita>

²⁹⁷⁴ Electric vehicles: from 15 February the "Retrofit" platform goes online, Ministry of Infrastructure and Transport (Rome) 15 February 2023. Translation provided by the analyst. Access Date: 10 March 2023. <https://www.mit.gov.it/comunicazione/news/veicoli-elettrici-dal-15-febbraio-e-online-la-piattaforma-retrofit>

On 16 March 2023, the Ministry of Infrastructure and Transport published a selection framework for road hydrogen filling stations eligible for funding.²⁹⁷⁵ There are 36 projects related to the construction of renewable hydrogen-based filling stations eligible for funding under the Investment 3.3 “Hydrogen testing for road transport” of the National Plan for Recovery and Resilience. The framework stipulates that the total funding allocation amounts to more than EUR103 million which constitutes around 40 per cent of the EUR230 million allocated for the implementation of the policy in 2021-2026. This measure is aimed at reducing emissions from private transport.

On 16 March 2023, Italy and the United Arab Emirates signed a declaration on strengthening cooperation to ensure successful results of the 28th UN Climate Change Conference (COP28) which will be held from November 30 to December 12 in Dubai.²⁹⁷⁶ The declaration underlines the importance of global action to fight climate change and considers it urgent to accelerate efforts to achieve the long-term goals of the Paris Agreement, including the goal of reaching net zero emissions by mid-century. Both countries also recognize the importance of working together to improve global resilience and support climate adaptation. In particular, the declaration stresses the importance of finding common solutions for food and water security, health and protection of natural ecosystems. Ahead of COP28, the two countries will continue to commit to new funding modes, such as the Fund of assistance for developing countries, particularly vulnerable to loss and damage. The declaration also recognizes the efforts of young people around the world in the fight against climate change and reaffirms the countries’ willingness to strengthen youth engagement in COP28 based on the results achieved by the Youth4Climate initiative launched by Italy in 2021.

On 23 March 2023, Italy and the Democratic Republic of the Congo signed a MoU on the sidelines of the UN Water Conference.²⁹⁷⁷ The aim of the new MoU is to strengthen bilateral cooperation for sustainable development in the following areas: improving water management, promoting access to sustainable, renewable and efficient energy, encouraging sustainable consumption and production patterns, strengthening and coordinating efforts to tackle global climate change and address its adverse effects, as well as protecting the sustainable use of terrestrial ecosystems. The MoU is aligned with such UN conventions as the three Rio conventions.

Italy acted to implement the Paris Agreement addressing greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization.

Thus, Italy receives a score of +1.

Analyst: Vadim Kuznetsov

Japan: +1

Japan has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 17 November 2022, Japan announced that it would resume public auctions for offshore wind power projects in December 2022 under revised rules, after the March 2022 auction was suspended.²⁹⁷⁸ The upcoming auction will select operators for four new areas capable of hosting 1.8 GW of offshore wind power.

On 30 November 2022, the Japan International Cooperation Agency (JICA) signed a project finance loan agreement with Abydos Solar Power Company SAE in the Arab Republic of Egypt for the Kom Ombo

²⁹⁷⁵ Hydrogen filling stations: framework published, Ministry of Infrastructure and Transport (Rome) 16 March 2023. Translation provided by the analyst. Access Date: 10 March 2023. <https://www.mit.gov.it/comunicazione/news/stazioni-rifornimento-idrogeno-pubblicata-la-graduatoria>

²⁹⁷⁶ Climate: Italy-UAE declaration, urgency to accelerate efforts ahead of COP28, Ministry of Environment and Energy Security (Rome) 17 March 2023. Translation provided by the analyst. Access Date: 6 April 2023. <https://www.mase.gov.it/comunicati/clima-intesa-italia-emirati-arabi-uniti-urgente-accelerare-sforzi-verso-cop28>

²⁹⁷⁷ A new MoU signed, Ministry of Environment and Energy Security (Rome) 30 March 2023. Translation provided by the analyst. Access Date: 6 April 2023. <https://www.mase.gov.it/pagina/firmato-nuovo-mou>

²⁹⁷⁸ Japan will launch a 1.8 GW offshore wind auction in December 2022, EnerData (Grenoble Cedex) 17 November 2022. Access date: 30 April 2023. <https://www.enerdata.net/publications/daily-energy-news/japan-will-launch-18-gw-offshore-wind-auction-december-2022.html>

solar power project.²⁹⁷⁹ The project will be co-financed by the International Finance Corporation. This project aims to use renewable energy sources to increase the electricity supply by constructing and operating a 500 MW solar power plant, thereby contributing to climate change mitigation by reducing emissions in the country.

On 10 December 2022, the Ministry of Economy, Trade and Industry (METI) presented sector-specific technology roadmaps for the transition to decarbonization, with the aim of promoting climate transition finance.²⁹⁸⁰ It has now compiled one for the chemical sector.

On 10 December 2022, JICA signed a project finance loan agreement with BIM Wind Power Joint Stock Company to provide up to USD25 million for an onshore wind power project in Ninh Thuan Province, southern Vietnam, with a total capacity of 88 MW.²⁹⁸¹ The project is expected to help Vietnam reach its clean energy and climate action targets by offsetting approximately 215,000 tons of carbon dioxide annually.

On 10 January 2022, JICA signed a USD90 million loan agreement with BRAC Bank Limited (BRAC Bank), a Bangladeshi private commercial bank.²⁹⁸² The funds from JICA will be utilized for projects that meet the green finance requirements of Bangladesh Bank (Bangladesh's central bank) and will contribute to climate-change mitigation and the improvement of environmental issues in the country (projects that work toward solving these issues, such as projects focusing on renewable energy, energy efficiency, and industrial effluent treatment).

On 3 February 2023, the Government announced that measures for local coexistence were discussed by the expert panel under METI (Working Group on Long-Term Renewable Energy Sources and Local Coexistence) in 2022.²⁹⁸³ A draft interim report summarizing these discussions was released in December 2022, and public comments were accepted through 10 January 2023. Developers and investors are advised to be aware that amendments to laws and regulations and changes to the operations are expected to come in line with the Draft Interim Report.

On 21 February 2023, METI, the Financial Services Agency and the Ministry of the Environment, together with ten global private financial institutions and other organizations, launched the Japan Public and Private Working Group on Financed Emissions to Promote Transition Finance, and have compiled a paper on issues related to financed emissions.²⁹⁸⁴ The paper first summarizes the expected roles of financial institutions in achieving carbon neutrality and the characteristics of financed emissions.

On 24 March 2023, METI formulated sector-specific technology roadmaps for the transition to decarbonization, with the aim of promoting climate transition finance.²⁹⁸⁵ It has now compiled one for the cement and paper/pulp sectors. This roadmap shows the most promising technologies for making Japan carbon neutral by 2050, basing its choices on scientific grounds. These technologies include future innovative technologies as well as tried-and-true low-carbon technologies that are available now (such as

²⁹⁷⁹ Signing of a Loan Agreement for the Kom Ombo Solar Power Project in Egypt (Private Sector Investment Finance): Contributing to climate change mitigation by increasing the 500 MW renewable energy supply, JICA (Tokyo) 30 November 2022. Access date: 30 April 2023. https://www.jica.go.jp/english/news/press/2022/20221201_30.html

²⁹⁸⁰ Technology Roadmap Formulated for Transition Finance toward Decarbonization in the Chemical Sector, Japan's METI (Tokyo) 10 December 2022. Access date: 30 April 2023. https://www.meti.go.jp/english/press/2021/1210_003.html

²⁹⁸¹ Signing of a loan agreement for the Ninh Thuan Province onshore wind power project in Vietnam (Private Sector Investment Finance): Contributing to climate change mitigation through a renewable energy project, JICA (Tokyo) 28 December 2022. Access date: 30 April 2023. https://www.jica.go.jp/english/news/press/2022/20221228_30.html

²⁹⁸² Signing of loan agreement for "Green Finance Promotion Project" in Bangladesh (Private Sector Investment Finance): Contributing to climate-change mitigation and the improvement of environmental issues, JICA (Tokyo) 23 January 2023. Access date: 30 April 2023. https://www.jica.go.jp/english/news/press/2022/20230123_30.html

²⁹⁸³ Japan Renewables Alert 62, JDSupra (New York) 3 February 2023. Access date: 30 April 2023. <https://www.jdsupra.com/legalnews/japan-renewables-alert-62-7677269/>

²⁹⁸⁴ Paper Released on Creating an Enabling Environment to Scale-up Transition Financing to Accelerate Decarbonization of Hard-to-Abate Sectors, Japan's METI (Tokyo) 21 February 2023. Access date: 30 April 2023. https://www.meti.go.jp/english/press/2023/0221_001.html

²⁹⁸⁵ Technology Roadmap Formulated for Transition Finance toward Decarbonization in the Cement and Paper/Pulp Sectors, Japan's METI (Tokyo) 24 March 2023. Access date: 30 April 2023. https://www.meti.go.jp/english/press/2022/0324_003.html

energy conservation and energy transition). The roadmap refers to domestic policies and international scenarios and presents the technologies with background information and timeframes.

On 31 March 2023, JICA signed loan agreements with the Republic of Indonesia in Jakarta to provide Japanese development assistance loans of up to a total of JPY173,667 million for the following four projects: 1) Disaster Resilience Enhancement and Management Program Loan (III) (loan amount: JPY30,000 million); 2) Peusangan Hydroelectric Power Plant Construction Project (II) (loan amount: JPY13,629 million); 3) Construction of Jakarta Mass Rapid Transit Project (Phase 2) (II) (loan amount: JPY87,918 million); 4) Patimban Access Toll Road Construction Project (loan amount: JPY42,120 million).²⁹⁸⁶

On 5 April 2023, the Government announced a group of experts would come up with ways of recycling used solar panels and other photovoltaic devices.²⁹⁸⁷ Environment Minister Nishimura Akihiro said the group would explore ways of tackling the issue systematically, with the aim of maximizing and expanding renewable-energy use.

On 6 April 2023, Japan and the United States, together with Cambodia, Lao PDR, Thailand, and Vietnam, released the Japan-U.S.-Mekong Power Partnership Action Plan, a comprehensive document that outlines priority technical cooperation projects and activities to help Mekong countries achieve their goals related to clean energy deployment, cross-border electricity trade, and national and regional power market development.²⁹⁸⁸

On 1 May 2023, Japan and UNDP joined forces for another set of funding to support climate action, drive green transformation, and ensure climate-resilient sustainable development.²⁹⁸⁹ The second phase of the Japan Supplementary Budget funds seeks to respond to the growing demand of developing countries supported by UNDP to take climate action and deliver on national climate pledges (also known as NDC), while also addressing complex current crises that pose a critical threat to global human security. Japan's USD23.6 million contribution will assist 16 countries across Asia-Pacific, Europe and Central Asia, Africa, and Arab State regions through UNDP's Climate Promise initiative.

Japan has made further progress in developing policies and providing funds for climate change mitigation and adaptation, while no evidence was found that Japan had taken any actions that may cause harm to climate and environment.

Thus, Japan receives a score of +1.

Analyst: Pavel Doronin

Korea: +1

Korea has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 9 December 2022, the Ministry of Environment and the Korea Environmental Industry and Technology Institute announced the results of a nation-wide selection of the best green technology

²⁹⁸⁶ Signing of Japanese ODA Loan Agreements with Indonesia: Contributing to the strengthening of the Japan-Indonesia partnership by supporting economic growth and climate change response initiatives, JICA (Tokyo) 6 April 2023. Access date: 30 April 2023. https://www.jica.go.jp/english/news/press/2023/20230406_10e.html

²⁹⁸⁷ Japanese experts to discuss solar-panel recycling, NHK WORLD-JAPAN (Tokyo) 5 April 2023. Access date: 30 April 2023. https://www3.nhk.or.jp/nhkworld/en/news/20230405_28/

²⁹⁸⁸ Release of Japan-U.S.-Mekong Power Partnership Action Plan, The U.S. Department of the State 6 April 2023 Access Date: 27 June 2023 <https://www.state.gov/release-of-japan-u-s-mekong-power-partnership-action-plan/>

²⁹⁸⁹ Japan renews support to developing countries on climate change with new \$23.6 million package, UNDP (New York) 1 May 2023. Access date: 15 June 2023. <https://www.undp.org/press-releases/japan-renews-support-developing-countries-climate-change-new-236-million-package>

companies.²⁹⁹⁰ The two entities selected 14 local companies that demonstrated “excellent business performance” and leadership in the green technologies implementation on a day-to-day basis.

From 31 January to 7 February 2023, the Ministry of Environment held a series of special sessions on subsidy programs for hydrogen fuel cell vehicles for local government.²⁹⁹¹ The Ministry of Environment is said to pursue “its policy of supplying hydrogen-powered vehicles by actively identifying the demand of local governments for those vehicles.”

On February 27 2023, the National Assembly passed five environment-related bills as to “provide a legal basis to improve environmental quality for the people.”²⁹⁹² The list includes the Special Act on the Improvement of Air Quality in Air Control Zones; the Act on the Promotion of Saving and Recycling of Resources; the Malodor Prevention Act; the Construction Waste Recycling Promotion Act; and the Framework Act on Carbon Neutrality and Green Growth for Coping with Climate Crisis.

On 21 March 2023, the Government presented the draft of the first National Plan for Carbon Neutrality and Green Growth for 2023–2042.²⁹⁹³ The core goal of the state carbon neutrality policy is said to be reduction in greenhouse gas emission by 40 per cent comparing with 2018 base level. The primary purpose of the national plan is to prepare reasonable implementation measures, such as sectoral and annual reduction targets and strategies, considering economic and social conditions and feasibility comprehensively to faithfully comply with the greenhouse gas reduction targets committed to the international community.

On 18 April 2023, the Ministry of Environment has launched a new committee.²⁹⁹⁴ The new structure named Innovation Committee on Environmental Research and Development would resolve environmental challenges namely carbon neutrality, promotion of a circular economy, and establishment of an environmentally safe society. Also, the Committee is said to facilitate the country’s environmental industry in entering the overseas markets.

On 19 April 2023, the Ministry of Environment presented The Republic of Korea’s Adaptation Communication.²⁹⁹⁵ Designing and presentation of documents of this kind is a voluntary recommendation under the UN Framework Convention on Climate Change. The first Korea’s report presents the country’s best practices in pursuing the Convention’s goals including the by-sector risk assessments.

²⁹⁹⁰ The Ministry of Environment to discover new companies to lead the future green industry, Ministry of Environment (Sejong-si) 9 December 2022. Access Date: 4 May 2023.

<https://eng.me.go.kr/eng/web/board/read.do?pagerOffset=50&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=461&orgCd=&boardId=1567220&boardMasterId=522&boardCategoryId=&decorator=>

²⁹⁹¹ Environment Ministry to increase the supply of hydrogen-powered vehicles, together with local governments, Ministry of Environment (Sejong-si) 2 February 2023. Access Date: 4 May 2023.

<https://eng.me.go.kr/eng/web/board/read.do?pagerOffset=40&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=461&orgCd=&boardId=1578190&boardMasterId=522&boardCategoryId=&decorator=>

²⁹⁹² Five Environmental Bills Passed by the National Assembly, including the Special Act On The Improvement Of Air Quality In Air Control Zones, Ministry of Environment (Sejong-si) 3 March 2023. Access Date: 4 May 2023.

<https://eng.me.go.kr/eng/web/board/read.do?pagerOffset=30&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=461&orgCd=&boardId=1584650&boardMasterId=522&boardCategoryId=&decorator=>

²⁹⁹³ The Yoon administration's blueprint for achieving carbon neutrality and green growth revealed, Ministry of Environment (Sejong-si) 30 March 2023. Access Date: 4 May 2023.

<https://eng.me.go.kr/eng/web/board/read.do?pagerOffset=20&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=461&orgCd=&boardId=1591210&boardMasterId=522&boardCategoryId=&decorator=>

²⁹⁹⁴ The Ministry of Environment launched Innovation Committee on Environmental R&D, Ministry of Environment (Sejong-si) 25 April 2023. Access Date: 4 May 2023.

<https://eng.me.go.kr/eng/web/board/read.do?pagerOffset=0&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=461&orgCd=&boardId=1596870&boardMasterId=522&boardCategoryId=&decorator=>

²⁹⁹⁵ The Ministry of Environment published "The Republic of Korea's Adaptation Communication", Ministry of Environment (Sejong-si) 25 April 2023. Access Date: 4 May 2023.

<https://eng.me.go.kr/eng/web/board/read.do?pagerOffset=0&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=461&orgCd=&boardId=1596800&boardMasterId=522&boardCategoryId=&decorator=>

Korea has made further progress in developing policies and providing funds for climate change mitigation and adaptation, while no evidence was found that Japan had taken any actions that may cause harm to climate and environment.

Thus, Korea receives a score of +1.

Analyst: Alexander Ignatov

Mexico: 0

Mexico has partially complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement and its temperature goal.

On 10 January 2023, President of Mexico Andrés Manuel López Obrador, President of the US Joe Biden, and Canada's Prime Minister Justin Trudeau issued a declaration of the 10th North American Leaders' Summit where they expressed a shared commitment to achieving their respective 2030 nationally determined contributions (NDCs) under the Paris Agreement while working together to keep the 1.5°C temperature goal within reach.²⁹⁹⁶ They undertake "to align approaches on estimating the social cost" of greenhouse gas (GHG) emissions, focus on reducing methane emissions from all sources, explore standards to develop hydrogen as a regional source of clean energy, move swiftly to accelerate the energy transition by deploying clean energy solutions, increasing the production and adoption of zero-emission vehicles in North America and transitioning to cleaner fuels.

On 17 February 2023, President Andrés Manuel López Obrador launched the first stage the Puerto Peñasco Photovoltaic Plant, powering 64,300 households with clean solar energy.²⁹⁹⁷

On 18 February 2023, President López Obrador declared around 230,000 hectares a lithium mining reserve zone, proclaiming all its mineral reserves belonging to the people of Mexico. This action, according to the President, complemented the ongoing construction of the Puerto Peñasco Photovoltaic Power Plant, and thus contributed to sustainable use of natural resources for the benefit of Mexican people.²⁹⁹⁸

On 16 March 2023, the Secretariat of Finance and Public Credit launched the country's Sustainable Taxonomy with the initial aim of addressing three major sustainability challenges: climate change; gender equality; and access to basic services in municipalities.²⁹⁹⁹ Mexico's Taxonomy addresses six environmental objectives – climate mitigation, climate adaptation, water and marine resources management, conservation of ecosystems and biodiversity, promotion of a circular economy, and pollution prevention.

On 23 May 2023, the Energy Regulatory Commission (CRE) adopted an agreement to update the reference values to determine the percentage of fossil-free energy.³⁰⁰⁰ The document classifies energy generated by steam of the combined cycles as clean.

On 29 May 2023, the Secretariat of Energy adopted a Program for the development of the national electric system, the governing document of the electricity policy, the Secretariat included a new concept of energy free from fossil fuel and additional energy for cooling, which is generated in combined cycle power

²⁹⁹⁶ Declaración de Norteamérica (DNA), Government of Mexico (Mexico City) 10 January 2023. Access Date: 17 June 2023. <https://www.gob.mx/presidencia/prensa/declaracion-de-norteamerica-dna>

²⁹⁹⁷ In Sonora, Mexico initiates a new environmental care policy: President López Obrador, Mexican Government (Mexico) 18 February 2023. Access Date: 8 May 2023. <https://www.gob.mx/presidencia/prensa/en-sonora-mexico-inicia-nueva-etapa-en-cuidado-ambiental-presidente-lopez-obrador?idiom=es>.

²⁹⁹⁸ Mexico's Lopez Obrador orders ministry to step up lithium nationalization, Reuters (Mexico) 19 February 2023. Access Date: 8 May 2023. <https://www.reuters.com/world/americas/mexicos-lopez-obrador-orders-ministry-step-up-lithium-nationalization-2023-02-19/>

²⁹⁹⁹ Taxonomía Sostenible de México, Secretaría de Hacienda y Crédito Público (Mexico City) 16 March 2023. Access Date: 17 June 2023. <https://www.gob.mx/shcp/documentos/taxonomia-sostenible-de-mexico?state=published>

³⁰⁰⁰ Acuerdo Núm. A/018/2023 de la Comisión Reguladora de Energía por el que se actualizan los valores de referencia de las metodologías para el cálculo de la eficiencia de los sistemas de cogeneración de energía eléctrica y los criterios para determinar la cogeneración eficiente, así como los criterios de eficiencia y metodología de cálculo para determinar el porcentaje de energía libre de combustible establecidos en las resoluciones RES/003/2011, RES/206/2014, RES/291/2012 y RES/1838/2016, respectivamente. Access Date: 17 June 2023. https://www.dof.gob.mx/nota_detalle.php?codigo=5690142&fecha=26/05/2023#gsc.tab=0

plants.³⁰⁰¹ The inclusion of this concept allowed to increase the percentage of clean energy net generation and nominally get closer to the 35 per cent clean energy target by 2024 in accordance with the Paris Agreement.

On 6 June 2023, the Secretariat of Environment and Natural Resources published a draft Official Mexican Standard of Carbon dioxide (CO₂) emissions from exhaust, applicable to new motor vehicles with a gross vehicle weight of up to 3,857 kilogram that use gasoline, diesel or alternative fuels in addition to hybrid vehicles. The new standard assumes the reduction of carbon dioxide (CO₂) emissions for new cars. The project also contemplates the granting of credits for corporates to encourage the introduction of highly efficient technologies, which have the potential to reduce CO₂ emissions per kilometer.

On 9 July 2023, the Sectorial Committee of Soil for Sustainable Agriculture held its first working session.³⁰⁰² The head of the Secretariat of Agriculture Víctor Villalobos Arámbula pointed out that this inter-institutional working group will help the implementation of public policy in the care and conservation of agricultural soils to promote sustainable agriculture, adapted to climate change and that adds to food security. The Committee also presented the scaling-up of the Doctors of Soils program, based on the training of the technical staff of the 32 Representative Offices on the importance of the soil resource for food and agriculture, as well as forums, discussions and seminars, indicated by the Interdisciplinary Studies Program of the National Autonomous University of Mexico.

On 20 July 2023, the Secretariat of Finance carried out the initial issuance of the sustainable bonds.³⁰⁰³ This financial instrument is a part of the Strategy of Sustainable Funding. The Secretariat of Finance conducted the placement inaugural Bond, a bond sustainable in local currency with a maturity of 12 years, with a fixed rate of 8 per cent and a yield of 8.85 per cent. This emission, an integral part of the Strategy of Sustainable Financing in Mexico, raised a total of 23,000 million pesos. The new bonds will have a mechanism of re-openings, designed to increase the liquidity of these new instruments over time and attract a base of long term investors, both domestic and foreign.

On 21 July 2023, the Public Account 2022 was published.³⁰⁰⁴ According to the document, the government of Andrés Manuel López Obrador cut the expenditure of Annex 16, which refers to the resources that are allocated for the adaptation and mitigation of climate change. As approved for last year, USD3,889 million should have been spent related to climate change; however, this was reduced by 28.5 per cent, so the government only spent USD2,782 million in 2022.

During the monitoring period Mexico has taken actions to advance the implementation of the Paris Agreement, addressing greenhouse gases emissions reduction.

Thus, Mexico receives a score of 0.

Analyst: Andrei Sakharov

Russia: +1

Russia has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement and its temperature goal.

On 23 December 2022, the Government approved the draft federal law “On the Amendments to the Code of Administrative Offenses of the Russian Federation” with regard to establishment of administrative

³⁰⁰¹ Programa de Desarrollo del Sistema Eléctrico Nacional 2023-2037, Gobierno de México. Access Date: 17 June 2023. <https://www.gob.mx/sener/articulos/programa-de-desarrollo-del-sistema-electrico-nacional-2023-2037>

³⁰⁰² With the presence of the Secretary of Agriculture and Rural Development, Víctor Villalobos Arámbula, the Sectorial Committee of Soil for Sustainable Agriculture (COSESAS) held its first working session. Access Date: 20 August 2023. <https://www.gob.mx/agricultura/prensa/aporta-mexico-al-mundo-acciones-y-politicas-para-el-cuidado-de-los-suelos-agropecuarios?idiom=es>

³⁰⁰³ Comunicado No 50. <https://www.gob.mx/shcp/prensa/comunicado-no-50-hacienda-fortalece-el-mercado-de-bonos-sustentables-en-monedas-local-con-la-emision-inaugural-del-bonos-a-tasa-fija?idiom=es-MX>. Access Date: 21 August 2023. <https://www.gob.mx/shcp/prensa/comunicado-no-50-hacienda-fortalece-el-mercado-de-bonos-sustentables-en-monedas-local-con-la-emision-inaugural-del-bonos-a-tasa-fija?idiom=es-MX>

³⁰⁰⁴ Cuenta Publica 2022. Access Date: 21 August 2023. <https://datos.gob.mx/busca/dataset/cuenta-publica-2022>

liability for failure to provide reliable information on greenhouse gas emissions.³⁰⁰⁵ The draft law is aimed at ensuring the reliability of state accounting of greenhouse gas emissions generated as a result of economic and other activities of regulated organizations.

On 17 January 2023, the Government signed an agreement on cooperation in high-tech development with Rosatom and Gazprom.³⁰⁰⁶ The agreement primarily involves cooperative work on developing hydrogen energy capabilities and energy storage technologies. It is planned that by 2024, at least 25,000 electric cars will be produced in Russia and more than 9,000 charging stations will be opened. Domestic demand for energy storage will reach 17.5 GWh, of which 16 GWh per year will come from electric cars.

On 23 January 2023, Prime Minister Mikhail Mishustin signed a decree “On Approving the Rules for the Development and Approval of Documents for the Prospective Development of the Electric Power Industry and on Amendments to Certain Acts of the Government of the Russian Federation.”³⁰⁰⁷ The amendments will help optimize the construction and modernization of grid infrastructure and generating facilities. The decree regulates the costs of building power lines and substations, as well as provides for the gradual formation of a rational structure of generating capacity in the country, while taking into account the objectives of low-carbon development.

On 23 January 2023, Prime Minister Mishustin signed a decree providing for the modernization of public utilities in Russian regions. In 2023, RUB30 billion are to be allocated to the task.³⁰⁰⁸

On 8 February 2023, the State Duma approved in the first reading the law “On Environmental Protection and Certain Legislative Acts,” which created the legislative framework for the functioning of the state monitoring system for permafrost.³⁰⁰⁹ The document was developed by the Russian Ministry of Natural Resources and Environment at the request of the president. According to Alexander Kozlov, the Russian Minister of Natural Resources and Environment, monitoring data should assist in assessing greenhouse gas emissions from melting permafrost, predict climate change trends and prepare scenario-based forecasts of the country’s socio-economic development.

On 11 March 2023, Prime Minister Mishustin signed a decree №373, expanding the nomenclature of green initiatives, subject to preferential financing through special bonds or loans.³⁰¹⁰ The list includes projects related to the construction of energy-efficient housing, clearing and restoration of water bodies, creation and modernization of infrastructure for direct capture of greenhouse gases from the environment, as well as capture and utilization of landfill gas with subsequent energy generation.

On 24 March 2023, the Prime Minister of Russia Mikhail Mishustin signed a decree on stimulation of further development of renewable energy.³⁰¹¹ The decree approves the financial parameters (marginal values of capital and operating costs) for the period after 2024 for competitive selections of investment projects for construction of renewable energy generation facilities in retail electricity markets. In addition, the decree instructs the Ministry of Energy to annually monitor the dynamics of renewable energy sector development

³⁰⁰⁵ Decisions taken at the Government meeting of December 23, 2022, the Government of Russia (Moscow) 25 December 2022. Translation provided by the analyst. Access Date: 11 April 2023. <http://government.ru/news/47433/>.

³⁰⁰⁶ Alexander Novak took part in the signing of the final package of agreements on cooperation in the development of high-tech areas, Government of Russia (Moscow) 17 January 2023. Translation provided by the analyst. Access Date: 11 April 2023. <http://government.ru/news/47555/>.

³⁰⁰⁷ The government has adopted new rules for the prospective development of the electric power industry, Government of Russia (Moscow) 23 January 2023. Translation provided by the analyst. Access Date: 11 April 2023. <http://government.ru/news/47604/>

³⁰⁰⁸ The government will finance the development of municipal infrastructure in the regions, Government of Russia (Moscow) 23 January 2023. Translation provided by the analyst. Access Date: 11 April 2023. <http://government.ru/news/47593/>.

³⁰⁰⁹ The State Duma approved in the first reading a bill on monitoring permafrost, TASS (Moscow) 8 February 2023. Translation provided by the analyst. Access Date: 11 April 2023. <https://tass.ru/obschestvo/16996405>
https://www.mnr.gov.ru/press/news/gosduma_v_pervom_chtenii_odobрила_zakonoproekt_o_monitoringe_mnogoletney_m_erzloty/?sphrase_id=565866.

³⁰¹⁰ The government expanded the green financing program, Government of Russia (Moscow) 11 March 2023. Access Date: 11 April 2023. <http://government.ru/news/47972/>.

³⁰¹¹ The government creates additional incentives for the development of renewable energy generation in Russia, Government of Russia (Moscow) 24 March 2023. Access Date: 28 June 2023. <http://government.ru/news/44924/>.

both in the wholesale electricity and capacity market and in the retail electricity markets, including microgeneration.

On 6 May 2023, the Prime Minister of Russia Mikhail Mishustin signed a decree on the rules for subsidizing the preferential credit program for participants of federal project “Clean Air.”³⁰¹² Preferential loans with 3 percent annual rate, will be available for enterprises located in Bratsk, Krasnoyarsk, Lipetsk, Magnitogorsk, Mednogorsk, Nizhny Tagil, Novokuznetsk, Norilsk, Omsk, Chelyabinsk, Cherepovets and Chita. In these cities, an experiment on quotas for harmful atmospheric emissions has been underway since 2019. Its goal is to reduce these emissions and improve the environment. It is expected that in 2023-2024 the total amount of subsidized soft loans can reach RUB3.4 billion.

On 13 July 2023, the Government issued a decree expanding the list of activities that can be financed through “Clean Air” federal project.³⁰¹³ The updated list includes measures for the purchase and installation of solid fuel boilers with automatic fuel supply in residential buildings. According to the government, such equipment is characterized by economical fuel consumption and environmental friendliness due to much less harmful emissions into the atmosphere.

On 9 August 2023, the Government and PAO “AFK Sistema” signed a letter of intent on the development of hydrogen energy.³⁰¹⁴ The document was signed by Deputy Prime Minister Alexander Novak and AFK Sistema’s President Tagir Sitdekov. The agreement is aimed at stimulating new developments, commercialization and introduction of domestic hydrogen technologies in different areas of the economy, defines the principles of interaction between the parties within the framework of the “road map” for the development of hydrogen energy technologies in Russia until 2024.

During the monitoring period Russia has taken actions to advance the implementation of the Paris Agreement, addressing all its three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization.

Thus, Russia receives a score of +1.

Analyst: Andrei Sakharov

Saudi Arabia: 0

Saudi Arabia has partially complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 13 December 2022, a state-owned company Aramco announced a partnership with AspenTech to make carbon-capture software developed by Aramco available to other companies globally.³⁰¹⁵ The objectives of the solution will be to allow companies to: 1) Optimize configurations carbon capture and utilization (CCU) to determine the optimum balance between emissions and profitability objectives; 2) Evaluate the impact of uncertainty in energy costs, carbon fees, and raw material and product costs; 3) Develop short, intermediate, and long-range production and strategic plans that include consideration for optimum CCU options to simultaneously address profitability and sustainability objectives.

On 26 December 2022, Saudi Arabia’s ACWA Power has signed a power purchase agreement with the National Electric Grid of Uzbekistan to build three wind power plants in the Central Asian country.³⁰¹⁶ The

³⁰¹² Government launches preferential credit program for participants of federal project "Clean Air", Government of Russia (Moscow) 24 March 2023. Access Date: 28 June 2023. <http://government.ru/news/48442/>.

³⁰¹³ Regions will be able to receive additional funding under the federal Clean Air Project, Government of Russia (Moscow) 14 July 2023. Translation provided by the analyst. Access Date: 23 August 2023. <http://government.ru/news/49037/>.

³⁰¹⁴ Alexander Novak signed an agreement on hydrogen energy development with Sistema JSFC, Government of Russia (Moscow) 9 August 2023. Translation provided by the analyst. Access Date: 23 August 2023. <http://government.ru/news/49239/>.

³⁰¹⁵ Aspen Technology and Saudi Aramco Partner to Bring New Carbon Capture & Utilization Software Innovation to Market, Aspen Tech (Massachusetts) 13 December 2022. Access date: 30 April 2023. <https://www.aspentech.com/en/resources/press-releases/aspentech-and-saudi-aramco-partner>

³⁰¹⁶ Saudi Arabia’s ACWA Power signs \$2.4bn wind energy PPA with Uzbekistan, Arab News (Riyadh) 26 December 2022. Access date: 30 April 2023. <https://www.arabnews.com/node/222191/business-economy>

USD2.4 billion Kungrad wind farm project will be executed through special-purpose vehicles in the north-western Karakalpakstan region of Uzbekistan.

On 8 April 2023, the Government announced that under the framework of the National Transformation Program 2022 it would contribute in planting over 12 million trees within five years through the National Center for Vegetation Development and Combating Desertification.³⁰¹⁷ According to Saudi Green Initiatives, 18 million trees were planted in 2022 in order to proactively tackle climate change impacts.³⁰¹⁸

On 14 April 2023, Saudi Arabia called on the World Bank to ramp up its financial support for carbon capture and storage. Saudi Finance Minister Mohammed Al-Jadaan urged the World Bank to “take on a prominent role in promoting CCUs.”³⁰¹⁹

On 31 May 2023, the Government announced that it would invest USD8.4 billion in green hydrogen production plant in the heart of Saudi Arabia’s NEOM to put the Kingdom on the global map for clean energy transition.³⁰²⁰ Producing 600 tonnes of green hydrogen daily is enough to power around 20,000 hydrogen-fuelled buses and trucks around the world and will save almost five million metric tonnes of carbon dioxide per year compared to diesel trucks or buses. Construction is progressing on the site – based in NEOM’S OXAGON – and remains on track for completion and full-time operations by the end of 2026.

Saudi Arabia has made further progress in developing alternative energy system, but there were not enough actions taken to mitigate climate change and adaptation.

Thus, Saudi Arabia receives a score of 0.

Analyst: Pavel Doronin

South Africa: 0

South Africa has partially complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 18 November 2022, Forestry, Fisheries and the Environment Minister Barbara Creecy published the Revised National List of Ecosystems That Are Threatened and in Need of Protection.³⁰²¹ The List incorporates the information on terrestrial ecosystems’ extent and condition, pressures and drivers of change. A total of 120 of the 456 terrestrial ecosystem types assessed in the list are categorized as threatened. Together these threatened ecosystems make up approximately 10 per cent of the country’s habitats. According to the report, 55 of the 120 terrestrial ecosystems are critically endangered, 51 endangered and 14 vulnerable.

On 21 January 2023, Water and Sanitation Minister, Senzo Mchunu, announced the launch of a steering committee to oversee and ensure that water and sanitation services management is sustainable in the North West Province.³⁰²² According to the Minister’s statement, a technical task team will be established under the steering committee, comprised of professional engineers from the Department and Water and

³⁰¹⁷ Over 12 million trees planted in Saudi Arabia within 5 years, Saudi Gazette (Riyadh) 8 April 2023. Access date: 30 April 2023. <https://saudigazette.com.sa/article/631420/SAUDI-ARABIA/Over-12-million-trees-planted-in-Saudi-Arabia-within-5-years>

³⁰¹⁸ SGI target: plant 10 billion trees across Saudi Arabia, Saudi and Middle East Green Initiatives, 2022. Access date: 30 April 2023. <https://www.greeninitiatives.gov.sa/about-sgi/sgi-targets/greening-saudi/plant-10-billion-trees/>

³⁰¹⁹ Saudi Arabia, Russia push for more World Bank money into carbon capture, Climate Change News (Broadstairs) 14 April 2023. Access date: 15 June 2023. <https://www.climatechangenews.com/2023/04/14/saudi-arabia-russia-push-for-more-world-bank-money-into-carbon-capture/>

³⁰²⁰ NEOM’s green hydrogen plant will secure Saudi Arabia’s clean energy transition: CEO, Alarabiya (Riyadh) 31 May 2023. Access date: 15 June 2023. <https://english.alarabiya.net/News/2023/05/25/Saudi-s-green-hydrogen-plant-will-put-Kingdom-on-global-map-for-clean-energy-CEO>

³⁰²¹ Minister Barbara Creecy publishes the revised national list of ecosystems that are threatened and in need of protection, Government of South Africa (Pretoria) 21 November 2022. Access Date: 11 April 2023. <https://www.gov.za/speeches/minister-barbara-creecy-publishes-revised-national-list-ecosystems-are-threatened-and-need>

³⁰²² Minister Senzo Mchunu on permanent water solutions for North West residents, Government of South Africa (Pretoria) 21 January 2023. Access Date: 11 April 2023. <https://www.gov.za/speeches/minister-senzo-mchunu-resolute-finding-permanent-water-supply-solutions-north-west>

Sanitation, the Magalies Water Board, as well as all district and local municipalities, to carry out technical work of assessing, planning, and implementation of water and sanitation needs of the whole province.

On 21 January 2023, the National Energy Crisis Committee released a six-month progress report on the implementation of the Energy Action Plan.³⁰²³ In July 2022, President Cyril Ramaphosa announced a range of measures to improve the performance of existing power stations and add new generation capacity. The updated report highlighted major steps that had been taken during the six-month implementation of the Plan, including a new Ministerial determination for 14771 MW of new generation capacity from wind, solar and battery storage, and an additional 300 MW imported through the Southern African Power Pool, with the negotiations underway to secure a further 1,000 MW from neighboring countries in 2023.

On 6 April 2023, the Government adopted the White Paper on Conservation and Sustainable Use of South Africa's Biodiversity.³⁰²⁴ The White Paper contains recommendations of the High Level Panel advisory to the Minister of Forestry, Fisheries and the Environment, on matters related to the management, hunting, breeding, trade and handling of several animal species, such as elephant, lion, leopard and rhinoceros. According to the statement by the Government, the White Paper provides for "the conservation of the rich, diverse biodiversity and ecological infrastructure, which supports ecosystem functioning for livelihoods and the well-being of people and nature. This can set the country on a strong path of sustainable development, considering the historical, socio-economic, and environmental context of South Africa, and the aspirations and needs of the people."

During the monitoring period South Africa has taken actions to advance the implementation of the Paris Agreement, addressing two of the three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, while failing to take action on climate finance mobilization.

Thus, South Africa receives a score of 0.

Analyst: Andrei Sakharov

Türkiye: 0

Türkiye has partially complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 25 December 2022, the Turkish Wind Energy Association reported the results of its work for 2022. According to the statement, the year 2022 was the "year of records" in electricity generation from wind energy. Türkiye has export volume of EUR1.5 billion (USD1.60 billion).³⁰²⁵ According to experts, with an investment of 3.6 billion euros ... it is possible to install 3 gigawatts of wind power per year.³⁰²⁶ Wind equipment exports are set to reach USD1.49 billion this year and grow 10 per cent in 2023. Total electricity production capacity hit 100 GW in March 2022. Renewables including hydropower had a 95 per cent share in new installations in 2021.

On 6 January 2023, Türkiye published its National Energy Plan for the period until 2035, laying out steps toward reaching the target of net zero greenhouse gas emissions by 2053.³⁰²⁷ The combined capacity of

³⁰²³ National Energy Crisis Committee releases six month progress update on implementation of Energy Action Plan, Government of South Africa (Pretoria) 21 January 2023. Access Date: 11 April 2023. <https://www.gov.za/speeches/national-energy-crisis-committee-releases-six-month-progress-update-implementation-energy>.

³⁰²⁴ Forestry, Fisheries and the Environment on Cabinet approving White Paper on Conservation and Sustainable Use of South Africa's Biodiversity, Government of South Africa (Pretoria) 6 April 2023. Access Date: 11 April 2023. <https://www.gov.za/speeches/forestry-fisheries-and-environment-cabinet-approving-white-paper-conservation-and>

³⁰²⁵ Investments of USD 1 billion in 2023 expected in Turkey's wind sector, Balkan Green Energy News (Belgrade) 7 November 2022. Access date: 30 April 2023. <https://balkangreenenergynews.com/investments-of-usd-1-billion-in-2023-expected-in-turkeys-wind-sector/>

³⁰²⁶ Turkish wind energy sector dubs 2023 'year of investment', Daily Sabah (Istanbul) 25 December 2022. Access date: 30 April 2023. <https://www.dailysabah.com/business/energy/turkish-wind-energy-sector-dubs-2023-year-of-investment>

³⁰²⁷ Turkey aims to almost double electricity generation capacity by 2035, Balkan Green Energy News (Belgrade) 6 January 2023. Access date: 30 April 2023. <https://balkangreenenergynews.com/turkey-aims-to-almost-double-electricity-generation-capacity-by-2035/>

power plants in the country is seen at 189.7 GW. In comparison, the level topped 100 GW early last year. Renewables account for 74.3 per cent of the planned additions.

Türkiye has adopted important policies to foster climate change mitigation and adaptation, nevertheless there is no information about mobilizing climate finance from a wide variety of sources.

Thus, Türkiye receives a score of 0.

Analyst: Pavel Doronin

United Kingdom: +1

The United Kingdom has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 15 December 2022, speaking at the 15th Conference to the Parties to the Convention on Biological Diversity in Montreal, Treasury Lords Minister Baroness Penn announced GBP7.2 million for a new International Nature Positive Economy Programme.³⁰²⁸

On 20 December 2022, the Government announced that more than GBP30 million of funding would benefit homes and businesses in three communities in the UK to deliver low carbon heat and help consumers move away from costly fossil fuels as part of the government's push to cut emissions.³⁰²⁹

On 20 January 2023, the Government announced that British industrial sectors, including construction, mining and quarrying, would be supported in their plans to develop greener technologies and low carbon fuels with a GBP32.5 million funding package to cut reliance on fossil fuels and boost energy resilience.³⁰³⁰ The funding announced would help these industries move away from using red diesel, also known as gas oil, which is a type of fossil fuel commonly used for off-road, heavy-duty vehicles and machinery, such as bulldozers and cranes.

On 6 February 2023, new reforms to target waste criminals and combat dangerous practices at waste sites were unveiled by Environment Minister Rebecca Pow.³⁰³¹ The current rules in England and Wales allow certain low-risk, small-scale waste activities to be carried out under a registration scheme, exempt from the need to hold an environmental permit, providing a light-touch but valuable form of regulation.

On 7 February 2023, the Government announced that cutting edge new technologies' implementation would be supported with GBP113 million of investment.³⁰³² Through the Aerospace Technology Institute Programme, government and industry are jointly backing new exciting zero-carbon technologies to open up a future of guilt-free flying. This includes a project by Bristol-based electric aircraft manufacturer Vertical Aerospace to develop high-end, lightweight batteries, as well as projects led by Rolls-Royce to develop the building blocks of a liquid hydrogen combustor jet engine, which would enable flight without the carbon emissions.

On 11 February 2023, six pioneering nature projects across the United Kingdom received major funding award to trial the most effective ways to capture carbon and mitigate the impacts of climate change, as

³⁰²⁸ UK Government supports developing countries to build nature positive economies, The UK Government (London) 15 December 2022 Access Date: 30 March 2023 <https://www.gov.uk/government/news/uk-government-supports-developing-countries-to-build-nature-positive-economies>

³⁰²⁹ First Green Heat Network Fund awards for cutting-edge low carbon energy projects, The UK Government (London) 20 December 2022 Access Date: 30 March 2023 <https://www.gov.uk/government/news/first-green-heat-network-fund-awards-for-cutting-edge-low-carbon-energy-projects>

³⁰³⁰ Government to support British industry in cutting fossil fuels with GBP32.5 million, The UK Government (London) 20 January 2023 Access Date: 30 March 2023 <https://www.gov.uk/government/news/government-to-support-british-industry-in-cutting-fossil-fuels-with-325-million>

³⁰³¹ Government moves ahead with plans to crack down on illegal waste, The UK Government (London) 6 February 2023 Access Date: 30 March 2023 <https://www.gov.uk/government/news/government-moves-ahead-with-plans-to-crack-down-on-illegal-waste>

³⁰³² Over GBP110 million to unlock zero emission guilt-free flights, The UK Government (London) 7 February 2023 Access Date: 30 March 2023 <https://www.gov.uk/government/news/over-110-million-to-unlock-zero-emission-guilt-free-flights>

Natural England has announced.³⁰³³ Operating at a landscape scale of over 500 hectares each, the six projects will restore landscapes across England – from Plymouth to Northumberland – and assess how carbon is captured and stored across different habitats such as grasslands, forests, wetlands and hedgerows.

On 20 February 2023, the Climate Change Hub – which centralises the latest resources, information and guidance on climate change adaptation to support landowners, woodland managers and forestry practitioners in addressing climate change threats – was launched by the Department for Environment, Food and Rural Affairs, Forest Research, Scottish Forestry and Welsh Government.³⁰³⁴

On 1 March 2023, the Environment Agency launched new Flood Warning Services at several locations across the East Midlands to help warn hundreds more homeowners of the risk of flooding.³⁰³⁵ Flood Warnings inform the public about an imminent risk of flooding to their home or business and help people make informed decisions about how to respond. There are three types of message – Flood Alert, Flood Warning and Severe Flood Warning. Each type can be triggered by particular weather or river conditions which cause flooding.

On 3 April 2023, the Government set out a new plan to clean up waters in Britain and ensure a plentiful supply for the future.³⁰³⁶ The Plan for Water covers both the water environment and water resources. It brings together the significant action already taken, along with more investment, stronger regulation and tougher enforcement on those who pollute.

On 12 April 2023, the Government granted GBP30 million of funding to develop new technologies to capture and store energy for longer.³⁰³⁷ Cutting edge businesses, in locations including Scotland and Nottingham, are set to benefit from a share of GBP30 million to be at the forefront of designing and testing innovative technology.

On 29 April 2023, Darwin Plus Strategic initiative, a new multi-million-pound grant scheme, opened supporting ambitious, transformative projects to tackle biodiversity loss in the UK Overseas Territories.³⁰³⁸ The Government also opened applications for the Darwin Plus Main, Fellowship and Local, continuing to support nature recovery and species under threat. Funding delivers on government's target to halt and reverse biodiversity decline.

On 9 May 2023, the Department for Energy Security and Net Zero launched first Net Zero Council. Government put heads together with representatives from industry to support further carbon reduction amongst businesses across all sectors of the economy.³⁰³⁹ The Net Zero Council will support industry to help cut their emissions and develop greener practices, that could bring opportunity of GBP1 trillion for British businesses up to 2030.

On 29 June 2023, the Government announced new investment and actions to improve lowland peat and reduce carbon emissions.³⁰⁴⁰ New action is aimed to reduce peat carbon emissions, improve resilience to

³⁰³³ Pioneering nature projects launched to test carbon capture methods in fight against climate change, The UK Government (London) 11 February 2023 Access Date: 30 March 2023 <https://www.gov.uk/government/news/pioneering-nature-projects-launched-to-test-carbon-capture-methods-in-fight-against-climate-change>

³⁰³⁴ New climate change hub launched for forestry sector, The UK Government (London) 20 February 2023 Access Date: 30 March 2023 <https://www.gov.uk/government/news/new-climate-change-hub-launched-for-forestry-sector--2>

³⁰³⁵ Environment Agency launches new Flood Warning Services, The UK Government (London) 1 March 2023 Access Date: 30 March 2023 <https://www.gov.uk/government/news/environment-agency-launches-new-flood-warning-services>

³⁰³⁶ New plan for cleaner and more plentiful water, The UK Government (London) 3 April 2023 Access Date: 3 May 2023 <https://www.gov.uk/government/news/new-plan-for-cleaner-and-more-plentiful-water>

³⁰³⁷ £30 million government boost to capture and store more renewable energy, The UK Government 12 April 2023 Access Date: 27 June 2023 <https://www.gov.uk/government/news/30-million-government-boost-to-capture-and-store-more-renewable-energy>

³⁰³⁸ Boost for nature recovery as new multi-million-pound grant scheme opens, The UK Government (London) 29 April 2023 Access Date: 3 May 2023 <https://www.gov.uk/government/news/boost-for-nature-recovery-as-new-multi-million-pound-grant-scheme-opens>

³⁰³⁹ Government holds first Net Zero Council, The UK Government 9 May 2023 Access Date: 27 June 2023 <https://www.gov.uk/government/news/government-holds-first-net-zero-council>

³⁰⁴⁰ New investment in peat in fight against climate change, The UK Government (London) 29 June 2023 Access Date: 24 August 2023 <https://www.gov.uk/government/news/new-investment-in-peat-in-fight-against-climate-change>

drought and support farmers following recommendations from the Chair of the Lowland Agricultural Peat Task Force. New plan also includes over GBP7.5 million of new funding for innovative water management projects to help mitigate the impacts of climate change.

On 3 July 2023, the UK Emissions Trading Scheme Authority has announced a package of reforms to tighten limits on industrial, power and aviation emissions from 2024.³⁰⁴¹ The scheme puts a limit on the total amount of greenhouse gases aviation, power and other energy intensive industries can emit. This incentivizes industries away from costly fossil fuels and encourages them to cut their carbon footprint by investing in energy efficiency and cleaner, or renewable technologies.

The United Kingdom has taken actions to advance the implementation of the Paris Agreement, addressing all its three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization.

Thus, the United Kingdom receives a score of +1.

Analyst: Nikita Shilikov

United States: +1

The United States has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 1 March 2023, the Administration announced that USD250 million would be allocated as to develop innovative strategies to cut climate pollution and build clean energy economies.³⁰⁴² These planning grants, through the US Environmental Protection Agency (EPA), were the first tranche of funding going to states, local governments, Tribes, and territories from the USD5 billion Climate Pollution Reduction Grants program created by President Joe Biden's Inflation Reduction Act.

On 3 March 2023, the US Agency for International Development (USAID) announced new initiatives to improve management of marine resources, increase ocean resilience to climate change, and safeguard ocean health for generations to come at the 2023 Our Ocean Conference in Panama.³⁰⁴³

On 6 April 2023, the United States and Japan, together with Cambodia, Lao PDR, Thailand, and Vietnam, released the Japan-U.S.-Mekong Power Partnership Action Plan, a comprehensive document that outlines priority technical cooperation projects and activities to help Mekong countries achieve their goals related to clean energy deployment, cross-border electricity trade, and national and regional power market development.³⁰⁴⁴

On 13 April 2023, the Department of State, in partnership with USAID, has launched the Blended Finance for the Energy Transition (BFET) program by issuing an initial request for concept proposals for private sector-led blended finance structures.³⁰⁴⁵ The process intends to make one or two award(s) of non-repayable catalytic capital from the U.S. government, totaling up to USD15 million. The general goal of BFET is to

³⁰⁴¹ Tighter limit on industrial, power and aviation emissions, as UK leads the way to net zero, The UK Government (London) 3 July 2023 Access Date: 24 August 2023 <https://www.gov.uk/government/news/tighter-limit-on-industrial-power-and-aviation-emissions-as-uk-leads-the-way-to-net-zero>

³⁰⁴² Biden-Harris Administration Announces Over \$250 Million to Fund Innovative Projects That Tackle Climate Pollution, the U.S. Environmental Protection Agency (EPA) 1 March 2023 Access Date: 30 March 2023 <https://www.epa.gov/newsreleases/biden-harris-administration-announces-over-250-million-fund-innovative-projects-tackle>

³⁰⁴³ USAID Announces New Programs to Protect Our Ocean at the 2023 Our Ocean Conference, The United States Agency for International Development (USAID) 3 March 2023 Access Date: 30 March 2023 <https://www.usaid.gov/news-information/press-releases/mar-03-2023-usaid-announces-new-programs-protect-our-ocean-2023-our-ocean-conference>

³⁰⁴⁴ Release of Japan-U.S.-Mekong Power Partnership Action Plan, The U.S. Department of the State 6 April 2023 Access Date: 27 June 2023 <https://www.state.gov/release-of-japan-u-s-mekong-power-partnership-action-plan/>

³⁰⁴⁵ The U.S. Department of State and the United States Agency for International Development (USAID) Launch a Call for Concept Proposals for the Blended Finance for the Energy Transition Program, The U.S. Department of State 13 April 2023 Access Date: 27 June 2023 <https://www.state.gov/the-u-s-department-of-state-and-the-united-states-agency-for-international-development-usaid-launch-a-call-for-concept-proposals-for-the-blended-finance-for-the-energy-transition-program/>

mobilize USD1 billion of capital to advance emerging markets' energy transition efforts and help limit global average temperature rise to 1.5°C.

On 7 August 2023, the Department of the Interior announced up to USD195 million in funding opportunities available through President Biden's Investing in America agenda to develop a more resilient water supply, support cooperative watershed management and safeguard aquatic ecosystems.³⁰⁴⁶

The United States takes action to implement the Paris Agreement both worldwide and domestically addressing all three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization including implementation of additional financial measures through the EPA and USAID.

Thus, the United States receives a score of +1.

Analyst: Nikita Shilikov

European Union: +1

The European Union has fully complied with the commitment to tackle climate change by strengthening the full and effective implementation of the Paris Agreement.

On 13 December 2022, the European Council and the European Parliament reached an agreement of a provisional and conditional nature on the Carbon Border Adjustment Mechanism (CBAM).³⁰⁴⁷ The objective of the mechanism is to prevent the offset of the EU greenhouse gas emissions reduction efforts by increasing emissions outside its borders through relocation of production to non-EU countries. Under the provisional agreement, CBAM is to enter into force in October 2023, initially covering the most carbon-intensive goods, such as "iron and steel, cement, fertilisers, aluminium, electricity and hydrogen, as well as some precursors and a limited number of downstream products."

On 19 January 2023, the European Union representatives signed an agreement with 16 green project leaders, granting the EUR1.8 billion through the Innovation Fund. According to the European Commission, these projects are to "help avoid about 125 million tonnes of CO2 emissions in the first 10 years of operation."³⁰⁴⁸ The projects focus on innovative low-carbon technologies, such as green hydrogen and synthetic sustainable aviation fuel, and methanol production from renewable hydrogen.

On 26 January 2023, the EU Mission on Adaptation to Climate Change launched its Community of Practice. The event gathered regional and local adaptation practitioners who signed the Mission Charter, and discussed financial challenges, needs for access to environmental data, and the opportunities to involve citizens in the climate resilience building.³⁰⁴⁹

On 14 February 2023, the European Commission proposed emissions targets for new heavy-duty vehicles, effective from 2030.³⁰⁵⁰ These targets are to help reduce emissions in the transport sector by strengthening the emissions standards compared to 2019 levels, specifically: 45 per cent emissions reductions from 2030; 65 per cent emission reductions from 2035; and 90 per cent emissions reduction from 2040. Additionally, the European Commission proposed to make all new city buses zero-emission by 2030.

³⁰⁴⁶ Biden-Harris Administration Makes Nearly \$200 Million Available for Drought and Climate Resiliency Projects as Part of Investing in America Agenda, The U.S. Department of Interior (Washington) 7 August 2023 Access Date: 25 August 2023 <https://www.doi.gov/pressreleases/biden-harris-administration-makes-nearly-200-million-available-drought-and-climate>

³⁰⁴⁷ EU climate action: provisional agreement reached on Carbon Border Adjustment Mechanism (CBAM), European Council (Brussels) 18 December 2023. Access Date: 7 May 2023. <https://www.consilium.europa.eu/en/press/press-releases/2022/12/13/eu-climate-action-provisional-agreement-reached-on-carbon-border-adjustment-mechanism-cbam/>.

³⁰⁴⁸ Innovation Fund: grant agreements signed with further 16 innovative large-scale projects, European Council (Brussels) 19 January 2023. Access Date: 7 May 2023. https://climate.ec.europa.eu/news-your-voice/news/innovation-fund-grant-agreements-signed-further-16-innovative-large-scale-projects-2023-01-19_en.

³⁰⁴⁹ Launch of the Community of Practice, European Commission (Brussels) 26 January 2023. Access Date: 7 May 2023. https://research-and-innovation.ec.europa.eu/events/upcoming-events/launch-community-practice-2023-01-26_en.

³⁰⁵⁰ European Green Deal: Commission proposes 2030 zero-emissions target for new city buses and 90% emissions reductions for new trucks by 2040, European Council (Brussels) 14 February 2023. Access Date: 7 May 2023. https://ec.europa.eu/commission/presscorner/detail/en/IP_23_762.

On 18 April 2023, the European Parliament approved the legislation on the Fit for 55 in 2030 package – the European Union’s plan to reduce greenhouse gas emissions by at least 55 per cent by 2030 compared to 1990 levels, including the introduction of the CBAM, the regulation of the emissions from maritime transport and aviation, as well as an institution of the EU Social Climate Fund.³⁰⁵¹ This Fund is to ensure that the climate transition will be fair and socially inclusive, through target support to Vulnerable households, micro-enterprises and transport users.

On 19 April 2023, the European Commission launched a portal on climate adaptation, to “help drive forward the EU’s Mission on Adaptation to Climate Change.”³⁰⁵² The Portal provides information on the Mission, its latest developments and the contribution by regional and local authorities. One of the goals of the portal is to provide support to regional and local authorities in developing, implementing and monitoring their climate change adaptation plans.

On 24 April 2023, the European Commissioner for International Partnerships Jutta Urpilainen and Prime Minister of Togo Victoire Tomegah Dogbé signed two agreements on: developing agro-industries and enhancing natural resources management amounting to EUR30 million in EU funding; and a EUR40 million support programme for expanding access to basic social services and agriculture.³⁰⁵³ The agreements are to support increased agricultural productivity – including through the implementation of solar irrigation, expansion of access to finance and the development of sustainable value chains.

On 24 April 2023, the European Union and Norway signed an agreement establishing a Green Alliance, aimed at strengthening “joint climate action, environmental protection efforts, and cooperation on the clean energy and industrial transition.”³⁰⁵⁴ According to President of the European Commission Ursula von der Leyen, the alliance provides for a deeper cooperation between the two parties on reducing emissions, protecting nature, decarbonising energy systems, and greening industries.

On 7 June 2023, the Council of the EU agreed on its negotiating mandate on a proposal for a regulation on the reporting of environmental data from industrial installations and establishing an Industrial Emissions Portal.³⁰⁵⁵ The main objective of the revision is to make progress towards the Green Deal’s zero pollution ambition by providing the public with access to a more integrated and coherent dataset on key environmental emissions generated by industrial installations.

On 8 June 2023, the European Union’s Modernisation Fund disbursed EUR 2.4 billion to 31 projects in seven beneficiary countries to help modernise their energy systems, reduce greenhouse gas emissions in energy, industry and transport, and improve energy efficiency.³⁰⁵⁶ Supported projects focus on renewable electricity generation, modernisation of energy networks and energy efficiency.

³⁰⁵¹ Fit for 55: Parliament adopts key laws to reach 2030 climate target, European Parliament (Brussels) 18 April 2023. Access Date: 7 May 2023. <https://www.europarl.europa.eu/news/en/press-room/20230414IPR80120/fit-for-55-parliament-adopts-key-laws-to-reach-2030-climate-target>.

³⁰⁵² EU’s Mission on Climate Adaptation launches its portal, European Commission (Brussels) 19 April 2023. Access Date: 7 May 2023. https://climate.ec.europa.eu/news-your-voice/news/eus-mission-climate-adaptation-launches-its-portal-2023-04-19_en.

³⁰⁵³ Global Gateway: EU and Togo strengthen partnership in sustainable agribusiness, energy and connectivity, European Commission (Brussels) 24 April 2023. Access Date: 7 May 2023. https://ec.europa.eu/commission/presscorner/detail/en/ip_23_2401.

³⁰⁵⁴ European Green Deal: New EU-Norway Green Alliance to deepen cooperation on climate, environment, energy and clean industry, European Commission (Brussels) 24 April 2023. Access Date: 7 May 2023. https://ec.europa.eu/commission/presscorner/detail/en/IP_23_2391.

³⁰⁵⁵ European Green Deal: Council agrees for industrial installations to provide better data on their environmental emissions, Council of the EU. Access Date: 17 June 2023. <https://www.consilium.europa.eu/en/press/press-releases/2023/06/07/european-green-deal-council-agrees-for-industrial-installations-to-provide-better-data-on-their-environmental-emissions/>

³⁰⁵⁶ European Green Deal: EU Modernisation Fund invests €2.4 billion to accelerate the green transition in seven EU countries, European Commission. Access Date: 17 June. <https://www.consilium.europa.eu/en/press/press-releases/2023/06/07/european-green-deal-council-agrees-for-industrial-installations-to-provide-better-data-on-their-environmental-emissions/>

On 25 July 2023, the Council of the EU adopted new law for more recharging and refuelling stations across Europe.³⁰⁵⁷

On 13 July 2023, the European Commission awarded over EUR3.6 billion to 41 large-scale clean tech projects, to be financed through the EU Innovation Fund.³⁰⁵⁸ These projects cover a wide range of industries, such as cement, steel, advanced biofuels, sustainable aviation fuels, wind and solar energy, and renewable hydrogen and its derivatives. The funding will contribute to the greening of significant sectors of the European economy, in particular those that are difficult to decarbonise.

During the monitoring period the European Union has taken actions to advance the implementation of the Paris Agreement, addressing all its three issue areas: greenhouse gases emissions reduction, climate adaptation and resilience, and climate finance mobilization.

Thus, the European Union receives a score of +1.

Analysts: Andrei Sakharov and Ksenia Dorokhina

³⁰⁵⁷ Alternative fuels infrastructure: Council adopts new law for more recharging and refuelling stations across Europe. Access Date: 20.08.2023. <https://www.consilium.europa.eu/en/press/press-releases/2023/07/25/alternative-fuels-infrastructure-council-adopts-new-law-for-more-recharging-and-refuelling-stations-across-europe/>

³⁰⁵⁸ Innovation Fund: EU invests €3.6 billion of emissions trading revenues in innovative clean tech projects. Access Date: 20.08.2023. https://ec.europa.eu/commission/presscorner/detail/en/IP_23_3787