



2019 G20 Osaka Summit Interim Compliance Report

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“The University of Toronto ... produced a detailed analysis to the extent of which each G20 country has met its commitments since the last summit ... I think this is important; we come to these summits, we make these commitments, we say we are going to do these things and it is important that there is an organisation that checks up on who has done what.”

— *David Cameron, Prime Minister, United Kingdom, at the 2012 Los Cabos Summit*

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19. Climate Change: Innovation

“[To this end, we strive to foster]... innovation in a wide range of areas for low emissions and resilient development.”

G20 Osaka Leaders’ Declaration

Assessment

	No Compliance	Partial Compliance	Full Compliance
Argentina			+1
Australia			+1
Brazil			+1
Canada			+1
China		0	
France			+1
Germany			+1
India			+1
Indonesia		0	
Italy			+1
Japan		0	
Korea			+1
Mexico		0	
Russia		0	
Saudi Arabia		0	
South Africa		0	
Turkey			+1
United Kingdom			+1
United States		0	
European Union			+1
Average		+0.60 (80%)	

Background

According to the Intergovernmental Panel on Climate Change’s special report Global Warming of 1.5°C, “a changing climate leads to changes in the frequency, intensity, spatial extent, duration and timing of weather and climate extremes, and can result in unprecedented extremes.”³¹²² The report also states that “some extremes have changed as a result of anthropogenic influences, including increases in atmospheric concentrations of greenhouse gases.”³¹²³ According to Canada’s National Post, G20 members are responsible for approximately 80 per cent of all greenhouse gas emissions.³¹²⁴ This commitment therefore represents the G20’s collective pledge to address climate change and its adverse effects, by simultaneously reducing emissions and developing alternative pathways to resilience.

³¹²² Global Warming of 1.5°C: An IPCC Special Report, Intergovernmental Panel on Climate Change (Geneva) 8 October 2018. Access Date: 10 December 2019. <https://www.ipcc.ch/sr15/>

³¹²³ Global Warming of 1.5°C: An IPCC Special Report, Intergovernmental Panel on Climate Change (Geneva) 8 October 2018. Access Date: 10 December 2019. <https://www.ipcc.ch/sr15/>

³¹²⁴ Canada’s plan to hit 2030 emission targets among the worst in G20, says report, National Post (Toronto) 11 November 2019. Access Date: 10 December 2019. <https://nationalpost.com/news/canada/canada-among-three-g20-countries-least-likely-to-hit-emissions-targets>

The 2009 Pittsburgh Summit marked the first comprehensive recognition of climate change as a critical issue for sustainable growth. While climate change had been mentioned at both the Washington and London summits, this summit represents a more in-depth consideration of the issue. Members recognized their shared interest in promoting energy security. They agreed to enhance their energy efficiency to “play an important, positive role in energy security and fighting climate change.”³¹²⁵ To achieve this, G20 leaders agreed to increase energy market transparency and improve regulatory oversight. In addition, they pledged to increase “clean and renewable energy supplies, improv[e] energy efficiency and promot[e] conservation ... to protect our environment, promote sustainable growth and address the threat of climate change.”³¹²⁶

At the 2010 Seoul Summit, G20 leaders reaffirmed their commitment to “rationalize and phase-out over the medium term inefficient fossil fuel subsidies; mitigate excessive fossil fuel price volatility; safeguard the global marine environment; and combat the challenges of global climate change.”³¹²⁷ To reflect their commitment to fight climate change, they said they would “spare no effort to reach a balanced and successful outcome” at the 2010 United Nations Climate Change Conference in Cancun.³¹²⁸

At the 2011 summit in Cannes, G20 members committed to continuing their efforts for sustainability, green growth and tackling climate change. They committed to climate financing to aid developing countries in the form of USD 100 billion per year “from all sources by 2020.”³¹²⁹

At the 2012 Los Cabos Summit, the G20 committed to take action to fulfill their Rio+20 and the United Nations Framework Convention on Climate Change (UNFCCC) agreements, the Green Climate Fund, implementation of Cancun and Durban outcomes and achieving greater outcomes at the 18th Conference of the Parties.³¹³⁰ To aid developing countries, there should be methods and mechanisms to share information pertaining to sustainable development. As such, the G20 members promoted the Green Growth Knowledge Platform to support interested developing countries.³¹³¹ Ultimately, they recognized green growth and sustainable development as an essential part of prosperity and wellbeing.³¹³²

At the 2013 summit in St. Petersburg, G20 leaders stated their “common interest in developing cleaner, more efficient and reliable energy supplies” and stressed their “commitment to work together to address climate change and environment protection” through international

³¹²⁵ G20 Leaders Statement: The Pittsburgh Summit, G20 Information Centre (Toronto) 25 September 2009. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2009/2009communique0925.html#energy>

³¹²⁶ G20 Leaders Statement: The Pittsburgh Summit, G20 Information Centre (Toronto) 25 September 2009. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2009/2009communique0925.html#energy>

³¹²⁷ G20 Seoul Summit, G20 Information Centre (Toronto) 12 November 2010. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/summits/2010seoul.html>

³¹²⁸ G20 Seoul Summit, G20 Information Centre (Toronto) 12 November 2010. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/summits/2010seoul.html>

³¹²⁹ Cannes Summit Final Declaration — Building on our Common Future: Renewed Collective Action for the Benefit of All, G20 Information Centre (Toronto) 4 November 2011. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2011/2011-cannes-declaration-111104-en.html>

³¹³⁰ G20 Leaders Declaration (Los Cabos), G20 Information Centre (Toronto) 19 June 2012. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2012/2012-0619-loscabos.html>

³¹³¹ G20 Leaders Declaration (Los Cabos), G20 Information Centre (Toronto) 19 June 2012. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2012/2012-0619-loscabos.html>

³¹³² G20 Leaders Declaration (Los Cabos), G20 Information Centre (Toronto) 19 June 2012. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2012/2012-0619-loscabos.html>

cooperation.³¹³³ As such, they pledged their support for full implementation of the UNFCCC outcomes, and the Green Climate Fund.

At the 2014 Brisbane Summit, G20 members reaffirmed their commitment to the UNFCCC outcomes. They also stated their support for “mobilising finance for adaptation and mitigation, such as the Green Climate Fund.”³¹³⁴ Additionally, they agreed that increased collaboration on energy was a “priority,” and stressed the need to adopt energy efficiency, and cost-effective methods of sustainable growth and energy security.³¹³⁵

At the 2015 Antalya Summit, the G20 recognized climate change as “one of the greatest challenges of our time.”³¹³⁶ G20 members acknowledged both climate change and energy efficiency as important goals. They agreed to increase investments in clean energy technologies in order to combat change, improve energy efficiency, and to “rationalize and phase-out inefficient fossil fuel subsidies that encourage wasteful consumption.”³¹³⁷ Moreover, they also affirmed the below 2°C goal in the Lima Call for Action, and underscored their “commitment to reach an ambitious agreement in Paris.”³¹³⁸ G20 members submitted their Intended Nationally Determined Contributions to the UNFCCC.³¹³⁹

At the 2016 Hangzhou Summit, G20 leaders reaffirmed their commitment to strong and effective action against climate change and their support for the Paris Agreement and the Green Climate Fund. They stressed the importance of developed countries providing financial assistance to developing countries to adopt the Paris outcomes. They also stated that they looked forward to more successful multilateral outcomes from the Montreal Protocol.³¹⁴⁰

At the 2017 Hamburg Summit, G20 members declared their resolve to tackle issues facing the global community such as climate change, because “a strong economy and a healthy planet are mutually reinforcing.”³¹⁴¹ As such, members agreed to adopt and promote low greenhouse gas emission energy systems and collaborate closely and consistently with the 2030 Agenda for Sustainable Development.³¹⁴² The 2030 Agenda marks a milestone because each member acknowledged its role both domestically and internationally in sustainability. Despite the withdrawal of the United States

³¹³³ G20 Leaders’ Declaration (St. Petersburg), G20 Information Centre (Toronto) 6 September 2019. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2013/2013-0906-declaration.html>

³¹³⁴ G20 Leaders’ Communiqué (Brisbane), G20 Information Centre (Toronto) 16 November 2014. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2014/2014-1116-communication.html>

³¹³⁵ G20 Leaders’ Communiqué (Brisbane), G20 Information Centre (Toronto) 16 November 2014. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2014/2014-1116-communication.html>

³¹³⁶ G20 Leaders’ Communiqué (Antalya), G20 Information Centre (Toronto) 16 November 2015. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2015/151116-communication.html>

³¹³⁷ G20 Leaders’ Communiqué (Antalya), G20 Information Centre (Toronto) 16 November 2015. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2015/151116-communication.html>

³¹³⁸ G20 Leaders’ Communiqué (Antalya), G20 Information Centre (Toronto) 16 November 2015. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2015/151116-communication.html>

³¹³⁹ G20 Leaders’ Communiqué (Antalya), G20 Information Centre (Toronto) 16 November 2015. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2015/151116-communication.html>

³¹⁴⁰ G20 Leaders’ Communiqué: Hangzhou Summit, G20 Information Centre (Toronto) 5 September 2016. Access date: 20 November 2019. <http://www.g20.utoronto.ca/2016/160905-communication.html>

³¹⁴¹ G20 Leaders’ Declaration: Shaping an Interconnected World (Hamburg), G20 Information Centre (Toronto) 8 July 2017. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2017/2017-G20-leaders-declaration.html>

³¹⁴² G20 Leaders’ Declaration: Shaping an Interconnected World (Hamburg), G20 Information Centre (Toronto) 8 July 2017. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2017/2017-G20-leaders-declaration.html>

from the Paris Agreement, the other G20 members reiterated their support for it, stating its “irreversibility” and the importance of its implementation.³¹⁴³

At the 2018 Buenos Aires Summit, the G20 noted the importance of the recent IPCC special report and adaptation strategies such as implementing disaster resilient infrastructure.³¹⁴⁴ Moreover, members recognized the utility of renewables, technologies and infrastructure for job creation and cleaner and sustainable energy.³¹⁴⁵

At the 2019 Osaka Summit, G20 members recognized the need to use innovative methods to mitigate climate change, promote resilient development and bring about a paradigm shift, especially in vulnerable communities.³¹⁴⁶ To achieve these ends, G20 members were encouraged to “look into clean technologies and approaches, including small cities, ecosystem and community based approaches, nature based solutions and traditional and indigenous knowledge.”³¹⁴⁷ G20 members reaffirmed the Paris Agreement’s irreversibility and their determination to implement it fully. Accordingly, they pledged to “update and maintain” their Nationally Determined Goals to meet necessary goals.³¹⁴⁸

Commitment Features

G20 members committed to “strive to foster innovation in a wide range of areas for low emissions and resilient development.” In this commitment, the requirement has two parts: 1) to foster innovation in a wide range of areas for low emissions and 2) to foster innovation in a wide range of areas for resilient development.

To “foster” is defined as “to encourage the development of something.”³¹⁴⁹ As “foster” essentially means encouragement, compliance can be achieved through supporting and implementing new policies or initiatives domestically and internationally that aim to reduce emissions and bring about resilience

“Innovation” is defined as “a new idea method or device,” and “the introduction of something new.”³¹⁵⁰ As such, for this commitment, it is understood as the creation or adoption of new strategies, policies or initiatives. Science and technology play an important role in mitigating the

³¹⁴³ G20 Leaders’ Declaration: Shaping an Interconnected World (Hamburg), G20 Information Centre (Toronto) 8 July 2017. Access date: 20 November 2019. <http://www.g20.utoronto.ca/2017/2017-G20-leaders-declaration.html>

³¹⁴⁴ G20 Leaders’ Declaration: Building Consensus for Fair and Sustainable Development (Buenos Aires), G20 Information Centre (Toronto) 1 December 2018. Access date: 20 November 2019. <http://www.g20.utoronto.ca/2018/2018-leaders-declaration.html>

³¹⁴⁵ G20 Leaders’ Declaration: Building Consensus for Fair and Sustainable Development (Buenos Aires), G20 Information Centre (Toronto) 1 December 2018. Access date: 20 November 2019. <http://www.g20.utoronto.ca/2018/2018-leaders-declaration.html>

³¹⁴⁶ G20 Osaka Leaders’ Declaration, G20 Information Centre (Toronto) 29 June 2019. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2019/2019-g20-osaka-leaders-declaration.html>

³¹⁴⁷ G20 Osaka Leaders’ Declaration, G20 Information Centre (Toronto) 29 June 2019. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2019/2019-g20-osaka-leaders-declaration.html>

³¹⁴⁸ G20 Osaka Leaders’ Declaration, G20 Information Centre (Toronto) 29 June 2019. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2019/2019-g20-osaka-leaders-declaration.html>

³¹⁴⁹ Compliance Coding Manual for International Institutional Commitments, G7 and G20 Research Groups (Toronto) 6 August 2019. Access Date: 19 April 2020. http://www.g7.utoronto.ca/compliance/Compliance_Coding_Manual_2019.pdf?fbclid=IwAR1EisalLpZ0rbCX3Vq0ErUGIttS04d29Or0P_bq5s_EZ3GMniZA2QlaquM

³¹⁵⁰ Innovation, Merriam Webster (Springfield) Access Date: 19 April 2020. <https://www.merriam-webster.com/dictionary/innovation>

effects of climate change. Innovation therefore means the creation of technology or policies that either offset or reduce emissions or leads to resilient development.

“A wide range of areas” is understood as wide-ranging, meaning “extensive in scope; comprehensive.”³¹⁵¹ This aspect of the commitment means that members are encouraged to take a variety of approaches. Accordingly, this part of the commitment needs to be quantified. In order for compliance to be wide-ranging, the threshold is set for at least three unique actions dedicated to fostering low emissions and resilience.

“Low emissions” is understood as continued efforts to meet the goals set out by the Paris Agreement. The Paris Agreement signatories agreed to keep the rise in global temperature below 2°C above pre-industrial levels, and take additional efforts to limit to 1.5°C.³¹⁵² Actions taken that contravene this part of the commitment, meaning any encouragement to utilize methods that do not promote low emissions, shall be considered negative compliance.

“Resilient development” is understood as developing a capacity to recover from adverse climate change disasters and/or effects in order to reduce vulnerability. In this commitment, this refers to building measures to reduce risk in vulnerable communities both domestically and internationally.³¹⁵³

In order to be awarded full compliance, G20 members must foster innovation in a wide range of areas, at least three in each regard, for innovation in low emissions and resilient development. Examples of a wide range of areas to foster both innovation for low emissions and resilient development includes, but is not limited to, fostering “clean technology and approaches including, smart cities, ecosystem and community-based approaches, nature based solutions and indigenous knowledge.”³¹⁵⁴ Specifically, actions that foster low emissions may include investment in renewable energy or low-carbon technology, but may also include increasing carbon sink capacity.³¹⁵⁵ Actions that foster resilient development might include investment in disaster reduction and recovery, such as “building flood defences, setting up early warning systems for cyclones and switching to drought-resistant crops, to redesigning communication systems, business operations and government policies.”³¹⁵⁶ To achieve partial compliance, or a score of 0, the G20 member must either take measures to foster innovation in a wide range of areas for low emissions OR resilient development. Non-compliance, a score of -1, will be obtained by those G20 members who do not take measures to foster innovation in a wide range of areas for low emissions NOR do they take measures to foster innovation in a wide range of areas for resilient development.

³¹⁵¹ Wide-ranging, Merriam-Webster (Springfield) Access Date 19 April 2020. <https://www.merriam-webster.com/dictionary/wide-ranging>

³¹⁵² The Paris Agreement, United Nations Framework Convention on Climate Change. Access Date: 20 November 2019. <https://unfccc.int/process-and-meetings/the-paris-agreement/the-paris-agreement>

³¹⁵³ Disaster Risk and Resilience, United Nations (New York) Access Date: 10 December 2019. https://www.un.org/en/development/desa/policy/untaskteam_undf/thinkpieces/3_disaster_risk_resilience.pdf

³¹⁵⁴ G20 Osaka Leaders’ Declaration, G20 Information Centre (Toronto) 29 June 2019. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/2019/2019-g20-osaka-leaders-declaration.html>

³¹⁵⁵ Renewable Energy Sources and Climate Change Mitigation: Summary for Policymakers and Technical Summary, Intergovernmental Panel on Climate Change (Geneva). Access Date: 21 April 2020. https://www.ipcc.ch/site/assets/uploads/2018/03/SRREN_FD_SPM_final-1.pdf

³¹⁵⁶ What do adaptation to climate change and climate resilience mean?, United Nations Framework Convention on Climate Change (Bonn). Access Date: 21 April 2020. <https://unfccc.int/topics/adaptation-and-resilience/the-big-picture/what-do-adaptation-to-climate-change-and-climate-resilience-mean>

Scoring Guidelines

-1	G20 member has not taken measures to foster innovation in a wide range of areas for low emissions OR resilient development.
0	G20 member has EITHER taken measures to foster innovation in a wide range of areas for low emissions OR resilient development.
+1	G20 member has taken measures to foster innovation in a wide range of areas for low emissions AND resilient development.

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Lead Analyst: Wayne George*

Argentina: +1

Argentina has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development.

On 2 July 2019, Argentina, together with Israel and the Keren Kayemet Leisrael, carried out a conversation about innovation for environmental water management. Secretary of National Environment Sergio Bergman stressed the need for Argentina to change the governance matrix of the water, as water management is significant to sustainable development and care for the environment.³¹⁵⁷

On 16 July 2019, the Ministry of Environment and Sustainable Development presented the Early Drought Information and Early Warning System in the southwest of Buenos Aires, as an initiative to address the problem of fragile soils in the semi-arid regions of the country. It provides reports which allow access to climate information three months in advance and thus be prepared for the occurrence of natural disasters, mitigating their impacts.³¹⁵⁸

On 22 August 2019, President Mauricio Macri offered the President of Brazil Jair Bolsonaro support and assistance for the severe fire disasters affecting the Amazon region. To help fight the fires and offer assistance, Argentina offered over 200 personnel with equipment, members of the National System for Comprehensive Risk Management.³¹⁵⁹

On 30 August 2019, the National System for Comprehensive Risk Management, the Ministry of Foreign Affairs and Worship, and the Armed Forces coordinated in order to fight against the wildfires in Bolivia. A group of 227 people and logistical support equipment is expected to Santa Cruz de la Sierra.³¹⁶⁰

On 27 September 2019, the governments of Argentina and Japan signed a memorandum of cooperation to boost the development of hydrogen as a pollution-free energy source during the

³¹⁵⁷ Innovation for environmental water management in the second Argentine-Israeli cooperation meeting, Ministry of Environment and Sustainable Development (Buenos Aires) 2 July 2019. Access Date: 8 February 2020. <https://www.argentina.gob.ar/noticias/la-innovacion-para-la-gestion-ambiental-del-agua-en-el-segundo-encuentro-de-cooperacion>

³¹⁵⁸ Ambiente presented a tool to alert about droughts in the southwest of Buenos Aires, Ministry of Environment and Sustainable Development (Buenos Aires) 17 July 2019. Access Date: 8 February 2020. <https://www.argentina.gob.ar/noticias/ambiente-presento-una-herramienta-para-alertar-sobre-sequias-en-el-sudoeste-bonaerense>

³¹⁵⁹ Argentina supports Brazil over Amazon fires, Ministry of Foreign Affairs, International Trade and Worship (Buenos Aires) 24 August 2019. Access Date: 8 February 2020. <https://www.cancilleria.gob.ar/en/announcements/news/argentina-supports-brazil-over-amazon-fires>

³¹⁶⁰ Wildfires in Bolivia: Assistance from Argentina, Ministry of Foreign Affairs, International Trade and Worship (Buenos Aires) 30 August 2019. Access Date: 8 February 2020. <https://www.cancilleria.gob.ar/en/announcements/news/wildfires-bolivia-assistance-argentina>

Second Hydrogen Energy Ministerial Meeting. The meeting seeks to strengthen collaboration in promoting hydrogen as an alternative energy source, and the memorandum will promote investments in the sustainable energy field.³¹⁶¹

On 21 October 2019, the Ministry of Environment and Sustainable Development supported an initiative to reduce greenhouse gases in the local livestock sector in the province of Salta, within the framework of the annual meeting of the EuroCLIMATE Program. It facilitates the development of climate change mitigation policies in the local livestock sector, which has initiated an expansion process with technologies of high environmental impact.³¹⁶²

On 27 November 2019, the Ministry of Environment and Sustainable Development formalized the first National Plan for Climate Change Adaptation and Mitigation through Resolution 447/2019. It aims to help meet the objectives of the Paris Agreement and the National Sectoral Action Plans for Energy, Transport, Agriculture, Industry, Health, Infrastructure and Territory and Forests. It responds to the need to cope with the challenges of climate change.³¹⁶³

On 20 December 2019, the Ministry of Environment and Sustainable Development, headed by Juan Cabandie, announced that Law No. 27520 of Minimum Climate Change Budgets had been formalized.³¹⁶⁴ It ensures the permanence in time of the National Climate Change Cabinet and positions the treatment of climate change as a state policy. Through this, the National Congress establishes the minimum budgets for the proper management of climate change, as well as establishing “instruments and strategies for mitigation and adaptation to climate change.”³¹⁶⁵

On 20 February 2020, the Ministry of Environment and Sustainable Development participated the 11th Meeting of Science-Political Interface of the United Nations Convention to Combat Desertification. The convention aims to support the sustainable development actions conducted in the country. The ministry focused on increasing national capacities through consolidating the environmental commitments and strengthening the regional representation in decision-making.³¹⁶⁶

On 26 February 2020, Minister of Environment and Sustainable Development Juan Cabandie had a bilateral meeting with Portugal’s Minister of Environment and Climate Action Joao Pedro Matos Fernandes. The meeting was to discuss issues of “climate change; air quality; water and sanitation;

³¹⁶¹ Argentina and Japan to work together in development of hydrogen as clean fuel, Ministry of Foreign Affairs, International Trade and Worship (Buenos Aires) 27 September 2019. Access Date: 8 February 2020. <https://www.cancilleria.gob.ar/en/announcements/news/argentina-and-japan-work-together-development-hydrogen-clean-fuel>

³¹⁶² Promote an initiative to reduce greenhouse gases in the livestock sector in Salta, Ministry of Environment and Sustainable Development (Buenos Aires) 21 October 2019. Access Date: 8 February 2020. <https://www.argentina.gob.ar/noticias/promueven-una-iniciativa-para-reducir-los-gases-de-efecto-invernadero-del-sector-ganadero>

³¹⁶³ Ambiente drew up the National Climate Change Adaptation and Mitigation Plan, Ministry of Environment and Sustainable Development (Buenos Aires) 27 November 2019. Access Date: 8 February 2020. <https://www.argentina.gob.ar/noticias/ambiente-elaboro-el-plan-nacional-de-adaptacion-y-mitigacion-al-cambio-climatico>

³¹⁶⁴ The Minimum Climate Change Budget Law was formalized, Ministry of Environment and Sustainable Development (Buenos Aires) 20 December 2019. Access Date: 8 February 2020. <https://www.argentina.gob.ar/noticias/se-oficializo-la-ley-de-presupuestos-minimos-de-cambio-climatico>

³¹⁶⁵ The Minimum Climate Change Budget Law was formalized, Ministry of Environment and Sustainable Development (Buenos Aires) 20 December 2019. Access Date: 8 February 2020. <https://www.argentina.gob.ar/noticias/se-oficializo-la-ley-de-presupuestos-minimos-de-cambio-climatico>

³¹⁶⁶ Technical meeting in Germany against desertification, Ministry of Environment and Sustainable Development (Buenos Aires) 26 February 2020. Access Date: 22 March 2020. <https://www.argentina.gob.ar/noticias/la-proteccion-de-la-vida-silvestre-amenazada-como-politica-transversal>

integrated management of coastal areas; national parks and protected areas; sustainable consumption and production; sustainable development and innovation; sustainable soil and forest management; conservation and protection of biodiversity; integral management of social waste; rational management of chemicals and substances; control and supervision; environmental education and citizen participation [and] sustainable cities.”³¹⁶⁷ The cooperation between the two nations will be materialized through the exchange, visits, technical support, and projects.³¹⁶⁸

On 13 March 2020, the Ministry of Environment and Sustainable Development participated in the institutional workshop of “Incorporation of biodiversity conservation criteria in sectoral and intersectoral public policies and programs to safeguard the wildlife threatened in Argentina,” a project of the United Nations Development Programme.³¹⁶⁹ The project is to promote balanced development with the conservation of threatened wildlife species. The workshop aimed to reach the consensus with various provincial and national actors about the lines of work that should be done for the project.³¹⁷⁰

Argentina has fully complied with its commitment to foster innovation in a wide range of areas for low emissions through its focus on hydrogen as a pollution-free energy source, EuroCLIMATE Program and collaboration with Portugal and Japan. Further, it has strived to foster innovation in a wide range of areas for resilient development through its Information and Early Warning System, its fire management aid Brazil and Bolivia, and its National Plan for Adaptation and Mitigation of Climate Change.

Thus, Argentina receives a score of +1.

Analyst: Eunbi Lee

Australia: +1

Australia has fully complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development.

On 30 June 2019, the Australian Renewable Energy Agency (ARENA) committed a budget of approximately AUD1.44 billion for renewable energy initiatives, with the purpose of promoting clean energy technologies that can remain competitive in supply markets. Up to AUD110 million of the budget will be made available to accelerate and secure the delivery of a new solar thermal power generation facility in Port Augusta.³¹⁷¹

³¹⁶⁷ Water Management: Cabandie received his Portuguese counterpart Joao Pedro Matos Fernandes, Ministry of Environment and Sustainable Development (Buenos Aires) 28 February 2020. Access Date: 22 March 2020. <https://www.argentina.gob.ar/noticias/gestion-del-agua-cabandie-recio-su-par-portugues-joao-pedro-matos-fernandes>

³¹⁶⁸ Water Management: Cabandie received his Portuguese counterpart Joao Pedro Matos Fernandes, Ministry of Environment and Sustainable Development (Buenos Aires) 28 February 2020. Access Date: 22 March 2020. <https://www.argentina.gob.ar/noticias/gestion-del-agua-cabandie-recio-su-par-portugues-joao-pedro-matos-fernandes>

³¹⁶⁹ Protection of threatened wildlife as a cross-cutting policy, Ministry of Environment and Sustainable Development (Buenos Aires) 13 March 2020. Access Date: 22 March 2020. <https://www.argentina.gob.ar/noticias/la-proteccion-de-la-vida-silvestre-amenazada-como-politica-transversal>

³¹⁷⁰ Protection of threatened wildlife as a cross-cutting policy, Ministry of Environment and Sustainable Development (Buenos Aires) 13 March 2020. Access Date: 22 March 2020. <https://www.argentina.gob.ar/noticias/la-proteccion-de-la-vida-silvestre-amenazada-como-politica-transversal>

³¹⁷¹ Clean Energy and the Electricity Market, Department of Industry, Science, Energy, and Resources (Canberra) November 2019. Access Date: 8 February 2020. <https://www.energy.gov.au/government-priorities/energy-supply/clean-energy-and-the-electricity-market>

On 7 August 2019, Minister for Agriculture, Drought and Emergency Management David Littleproud hosted the third Drought Roundtable on how to deal with future droughts. Littleproud stated that they will “move towards resilience rather than reliance, leveraging the AUD5 billion Future Drought Fund.”³¹⁷²

On 17 September 2019, Minister Littleproud announced the creation of the Future Drought Fund Consultative Committee. Starting at AUD3.9 billion, the government will be adding onto it until it reaches AUD5 billion. The committee will seek to develop mechanisms for drought-vulnerable communities to “plan and prepare for drought and sustain their livelihoods and communities.” The project will be spearheaded by individuals with backgrounds in “agricultural economics, managing climate risk, rural and regional development and natural resource management.”³¹⁷³

On 3 October 2019, Minister Littleproud released the AUD2.7 million Regional Weather and Climate Guide for farmers. As part of the government’s Drought Assistance Package, it aims at guiding farmers on how to cope with climate risks and opportunities such as “rainfall and temperature trends, frost risk, when to expect the wet season, and the nature of local droughts, floods and heatwaves.”³¹⁷⁴

On 10 October 2019, Australia launched a joint initiative of the Green Building Council of Australia and the Property Council of Australia to establish governance reports intended to “galvanise action in Australia’s buildings, which are currently responsible for almost a quarter of our national carbon emissions and half of our electricity use.” The program currently funds research and development initiatives, as well as green energy initiatives in the public sphere that foster compliance and monitoring of energy and waste regulations.³¹⁷⁵

On 17 October 2019, the government’s Education Investment Fund announced the new phase of their low-impact carbon dioxide drilling plant. The government has invested AUD25 million into the Otway Geological Storage and Monitoring Demonstration Project, which has developed new carbon secure storage technology designed to capture carbon dioxide from high content natural gas wells using novel membrane and adsorbent materials. The project works to reduce the investment cost of capturing methane during the process of natural gas extraction, reducing the financial barriers for companies that wish to repurpose the methane produced throughout their industrial activities.^{3176,3177}

On 18 November 2019, United States Assistant Secretary of State for Energy Resources Francis Fannon and Australian Ambassador Joe Hockey signed a memorandum of understanding on energy

³¹⁷² Taking the sting out of future droughts, Department of Agriculture, Drought and Emergency Management (Canberra) 7 August 2019. Access Date: 2 April 2020. <https://minister.awe.gov.au/littleproud/media-releases/taking-sting-out-of-future-droughts>

³¹⁷³ Future Drought Fund Consultative Committee, Department of Agriculture, Drought and Emergency Management (Canberra) 17 September 2019. Access Date: 3 April 2020. <https://minister.awe.gov.au/littleproud/media-releases/future-drought-fund-consultative-committee>

³¹⁷⁴ Climate guides help farmers weather the risk, Department of Agriculture, Water and the Environment (Canberra) 3 October 2019. Access Date: 3 April 2020. <https://minister.awe.gov.au/littleproud/media-releases/climate-guides-farmers-weather-risks>

³¹⁷⁵ Industry’s practical plan to lower emissions and deliver practical savings, Greenbuilding Plan Australia (Canberra) 29 November 2019. Access Date: 8 February 2020. <https://new.gbca.org.au/news/gbca-news/making-every-building-count-industrys-practical-plan-lower-emissions-and-deliver-practical-savi/>

³¹⁷⁶ Drilling Complete as Part of Research to Develop Low Cost, Low Impact CO2 Monitoring, CO2CRC (Canberra) 18 September 2019. Access Date: 8 February 2020. <http://www.co2crc.com.au/drilling-complete-part-research-develop-low-cost-low-impact-co2-monitoring/>

³¹⁷⁷ \$100m Otway Research Facility, CO2CRC (Canberra) September 2019. Access Date: 8 February 2020. <http://www.co2crc.com.au/otway-research-facility-2/>

mineral resources. The goals are to: “1) promote responsible and sustainable mining practices in the energy mineral sector, 2) support resilient supply chains of energy minerals by facilitating trade and industry connectivity, 3) establish measures to meet expected demand for clean energy technologies.”³¹⁷⁸

On 19 November 2019, the Minerals Council of Australia announced AUD150 million of funding designated towards a new iteration of their Carbon Capture Plant. Coal 21 has developed full-scale abatement in underground mines, capturing ventilation air flow in order to abate the production of methane. As it stands, the project aims to consolidate the abatement of 98 per cent of the methane produced in developing coal mines with the use of Chemical Looping technology. Since March 2019, it has successfully established small-scale operations that utilized the methane consumed in coal production in order to repurpose its energy usage.^{3179,3180}

On 22 November 2019, the government committed AUD995.2 million to current phases of the CarbonNet Project, which aims to cover multiple sources of carbon dioxide captured from industrial plants and power stations in the province of Victoria. The carbon dioxide will be transported via pipelines offshore into deep sub-sea formations, reducing Australia’s net carbon dioxide emissions into the atmosphere, and securing energy storage mechanisms.³¹⁸¹

On 23 January 2020, ARENA initiated the development of its East Rockingham Resource Recovery Facility, designed to process up to 330,000 tonnes of residual waste per annum, thus recovering enough energy to produce an estimated 28.9 MW of power. It will also filter over 30,000 tonnes of bio-solids from the Perth metropolitan area every year, and produce around 12,000 tonnes of flue gas treatment residuals. Developed by ARENA in conjunction with the New Energy Corporation, Hitachi Zosen Inova Australia and Tribe Infrastructure Group, the project to establish a large-scale Energy from Waste facility will be the second of its kind to be opened in Australia.³¹⁸²

On 12 February 2020, Australia launched its Renewable Energy for Process Heat Opportunity Study, with the aim of accelerating the adoption of renewable energy in industrial and commercial process heating. The project will involve integrating renewable energy technologies into existing industrial and commercial heating processes, with a focus on agriculture, dairy, food and beverage manufacturing, and industrial production of textiles/leather. The initiative also aims to provide non-thermal technologies such as induction, mechanical vapour recompression, and solar energy.³¹⁸³

On 13 February 2020, Minister Littleproud announced how it would use its AUD3.9 billion Drought Resilience Funding Plan. It would prioritize both resilience and preparedness while simultaneously

³¹⁷⁸ United States and Australia Sign MoU on Critical Energy Minerals, US Department of State (Washington) 18 November 2019. Access Date: 2 February 2020. <https://www.state.gov/united-states-and-australia-sign-mou-on-critical-energy-minerals/>

³¹⁷⁹ Centennial Coal: Methane Reduction Demonstration, COAL21 (Canberra) 2019. Access Date: 8 February 2020. <https://coal21.com/projects/current/centennial-coal-methane-reduction-demonstration/>

³¹⁸⁰ COAL21 Announces Funding for Australia’s first Carbon Capture Hub, COAL21 (Canberra) 2019. Access Date: 8 February 2020. <https://coal21.com/wp-content/uploads/2019/11/191119COAL21-Announces-Funding-for-Australia%E2%80%99s-first-Carbon-Capture-Hub.pdf>

³¹⁸¹ Carbon Capture Storage Flagships, Department of Industry, Science, Energy, and Resources (Canberra) 5 December 2019. Access Date: 8 February 2020. <https://www.industry.gov.au/funding-and-incentives/carbon-capture-storage-flagships>

³¹⁸² East Rockingham Resource Recovery Facility, Australian Renewable Energy Agency (Canberra) 23 January 2020. Access Date: 23 March 2020. <https://arena.gov.au/projects/east-rockingham-resource-recovery-facility/>

³¹⁸³ Renewable Energy for Process Heat Opportunity Study, Australian Renewable Energy Agency (Canberra) 12 February 2020. Access Date: 23 March 2020. <https://arena.gov.au/projects/renewable-energy-for-process-heat-opportunity-study-phase-2/>

bolstering production and profits. Additionally, the government will reinvest another AUD100 million a year until it reaches AUD5 billion.³¹⁸⁴

On 25 February 2020, Minister Littleproud stated Australia will be investing over AUD2.9 million in new technology as part of the Smart Farming Partnerships Program. This program is designed to “help protect fragile ecosystems such as the Great Barrier Reef, Murray-Darling and coastal lake systems.”³¹⁸⁵

On 26 February 2020, Australia announced the new construction team responsible for expanding the Snowy Mountains Project, which was devised with the intent to provide additional hydro-electric power generation and storage capacity, and “support for the development of a second electricity transmission interconnector between Tasmania and the mainland.”³¹⁸⁶ The plans will provide the single biggest renewable energy source in Southern Australia’s power grid, and include the assembly of thermal energy structures in order to mitigate the dam’s environmental impacts.³¹⁸⁷ The new designed consortium is tasked with building the project known as Snowy 2.0, which will expand its energy intake to two thousand megawatts, connecting two existing water reservoirs in Kosciuszko National Park.³¹⁸⁸

On 6 March 2020, the Province of Tasmania announced its plan to build a powerplant devised towards the use of hydrogen within the production of energy, establishing a future path for renewable energy in Tasmania. In addition, the Tasmanian government also declared its intention of establishing fast-charging equipment for electric vehicles at 12 new sites by the end of 2020. As part of its commitment, the Tasmanian government pledged over AUD50 million in funding, subsidized power, concessional loans, and tax breaks for future green hydrogen developments in the province.³¹⁸⁹

On 11 March 2020, Australia initiated the construction of Energy Freedom Solar Electric Vehicle Pilot, which draws AUD2 million of its total AUD7.65 million budget from federal funding. The project is developed in conjunction with the private sector, with the help of the Applied Electric Vehicles Pty Ltd. It aims to produce an energy efficient, autonomous electric vehicle that will incorporate a solar photovoltaic roof and lithium-ion battery system into its technology.³¹⁹⁰

On 18 March 2020, ARENA renewed its commitment to support renewable energy initiatives, announcing new power plants for hydrogen-based energy production. Researchers have produced a National Hydrogen Roadmap, establishing its efforts towards a renewable hydrogen industry that

³¹⁸⁴ Putting the Future Drought Fund to work, Department of Agriculture, Water and the Environment (Canberra) 13 February 2020. Access Date: 3 April 2020. <https://minister.awe.gov.au/littleproud/media-releases/future-drought-fund>

³¹⁸⁵ Millions for environmental innovation in horticulture, Department of Agriculture, Water and the Environment (Canberra) 25 February 2020. Access Date: 3 April 2020. <https://minister.awe.gov.au/littleproud/media-releases/smart-farming-environmental-hort>

³¹⁸⁶ Climate Solutions Package, Department of Agriculture, Water and the Environment (Canberra) 5 March 2019. Access Date: 8 February 2020. <http://climatechangeauthority.gov.au/sites/prod.climatechangeauthority.gov.au/files/Australian%20climate%20change%20policies%20-%20stocktake.pdf>

³¹⁸⁷ Climate Solutions Package, Department of Agriculture, Water and the Environment (Canberra) 5 March 2019. Access Date: 8 February 2020. <http://climatechangeauthority.gov.au/sites/prod.climatechangeauthority.gov.au/files/Australian%20climate%20change%20policies%20-%20stocktake.pdf>

³¹⁸⁸ World-Class Designers Chosen for Snowy 2.0, Tractebel (Canberra) 26 February 2020. Access date: 23 March 2020. <https://tractebel-engie.com/en/news/2020/world-class-designers-chosen-for-snowy-2-0>

³¹⁸⁹ Inside the Liberal State Stepping into a Low-Emissions Future, The Guardian (London) 6 March 2020. Access Date: 23 March 2020. <https://www.theguardian.com/australia-news/2020/mar/07/inside-the-liberal-state-stepping-into-a-low-emissions-future>

³¹⁹⁰ Energy Freedom Solar Electric Vehicle Pilot, Australian Renewable Energy Agency (Canberra) 11 March 2020. Access Date: 23 March 2020. <https://arena.gov.au/projects/energy-freedom-solar-electric-vehicle-pilot/>

reduces emissions in high-temperature sectors, especially in the transport sphere. ARENA's National Hydrogen Roadmap also entails an executive report, where Australia's energy ministers voiced their intentions to increase public funding for Australia's research and development sector in the roadmap, which currently stands at AUD22.1 million.³¹⁹¹

On 18 March 2020, Australia communicated the take-off of its Hydrogen Energy Supply Chain Project. It is a joint project between the governments of Australia and Japan, and has been devised in order to provide a secure and clean source of energy by improving systems that convert synthetic gas, in the form of carbon monoxide, into hydrogen.³¹⁹² Although still in its initial stages, the project has already presented over AUD70 million in public funding towards its aim to establish renewable hydrogen into a residential gas grid.³¹⁹³

On 19 March 2020, Australia launched the Yara Pilbara Renewable Ammonia Feasibility Study. This initiative consists of a research project towards large-scale renewable hydrogen and renewable ammonia production, and the government officials announced that it is officially taking place at a facility on the Burrup Peninsula, Western Australia. The renewable hydrogen produced will displace 30,000 tonnes per year of hydrogen, that would otherwise have been produced using fossil fuels. Yara's objective is to provide blended hydrogen, which will subsequently be converted to ammonia and sold for further processing by electrolyzers.³¹⁹⁴

On 20 March 2020, ARENA began phase 1 of the construction of its new Solar Power Plant. The project entails a budget of over AUD6 million for the year of 2020, with the aim of developing utility-scale solar and storage technology. Upon its finalization, the new plant is expected to provide low-cost, long-duration storage option for Australian consumers. In addition, the plant will be able to store a total of 50 MW every 17 hours, providing an alternative source to coal and gas-fired power stations.³¹⁹⁵

On 24 March 2020, the government introduced new projects endowed with public funding from its Emission's Reduction Fund.³¹⁹⁶ The government is supplying over AUD2 billion in funding for the Australian Government's Emissions Reduction Fund over the next 10 years, which is projected to contribute an additional 103 million tons of carbon dioxide equivalent reductions by 2030. The government's Emissions Reduction Fund allows organizations and individuals to register projects to reduce their emissions, and registers initiatives within the fields of agriculture, land, energy, transportation, industry, and waste sectors.³¹⁹⁷

³¹⁹¹ Hydrogen Energy, Australian Renewable Energy Agency (Canberra) 18 March 2020. Access Date: 23 March 2020. <https://arena.gov.au/renewable-energy/hydrogen/>

³¹⁹² Hydrogen Energy Supply Chain Pilot Project, Department of Industry, Science, Energy, and Resources (Canberra) 25 November 2019. Access Date: 8 February 2020. <https://www.industry.gov.au/funding-and-incentives/hydrogen-energy-supply-chain-pilot-project>

³¹⁹³ Australia's renewable hydrogen industry prepares for take off, ArenaWire (Canberra) 18 March 2020. Access Date: 23 March 2020. <https://arena.gov.au/blog/australias-renewable-hydrogen-industry-prepares-for-take-off/>

³¹⁹⁴ Yara Pilbara Renewable Ammonia Feasibility Study, Energy Freedom Solar Electric Vehicle Pilot, Australian Renewable Energy Agency (Canberra) 19 March 2020. Access Date: 23 March 2020. <https://arena.gov.au/projects/yara-pilbara-renewable-ammonia-feasibility-study/>

³¹⁹⁵ Solar Power Plant Phase 1, Australian Renewable Energy Agency (Canberra) 20 March 2020. Access Date: 23 March 2020. <https://arena.gov.au/projects/solar-power-plant-phase-1/>

³¹⁹⁶ Emissions Reduction Fund Project Register, Australian Government Clean Energy Regulator (Canberra) 24 March 2020. Access Date: 24 March 2020. <http://www.cleanenergyregulator.gov.au/ERF/project-and-contracts-registers/project-register/project-register-changes-since-last-update>

³¹⁹⁷ Australia's Climate Change Policies at the Australian and Territory Government Levels: a Stocktake, Climate Change Authority (Canberra) March 2019. Access Date: 8 February 2020. <http://climatechangeauthority.gov.au/sites/prod.climatechangeauthority.gov.au/files/Australian%20climate%20change%20policies%20-%20stocktake.pdf>

Australia has fully complied with its commitment to foster a wide range innovation for lower emissions through its investment in renewables and green energy, its CarbonNet Project and its investment in carbon capture and sequestration technology. Further, it has fully complied with its commitment to foster resilient development through its investment in the Future Drought Fund, Regional Weather and Climate Guide for Farmers and Smart Farming Partnerships Program.

Thus, Australia receives a score of +1.

Analyst: Lucy Faria

Brazil: +1

Brazil has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development.

On 2 September 2019, the Ministry of Infrastructure plans to hold their annual socio-economic seminar on Transport Infrastructure called Via Viva. The seminar features government representatives, international organizations, the Public Ministry, the Judiciary, and members of academia. The annual seminar is a forum to discuss current best practices, ways to innovate and create new technologies, and economic and policy reforms to maximize climate action in Brazil.³¹⁹⁸

On 16 September 2019, on the International Day for the Preservation of the Ozone Layer, the Ministry of the Environment released its objectives to protect the ozone layer, particularly the targets of the Brazilian HCFC Elimination Program. The program intends to adopt a series of strategies to encourage consumers of Ozone-Depleting Substances to adopt more sustainable practices. The Ministry released that Brazil is on track to reach its 2020 target of reducing the consumption of hydrochlorofluorocarbons (HCFCs), one of the primary substances responsible for the elimination of the ozone layer. Brazil has already achieved a decrease of 37.75 per cent of HCFCs, which is just below the 39 per cent target for 2020; and 501.04 tonnes of ozone destruction potential was reduced, and this path forecasts complete elimination of HCFCs by 2040.³¹⁹⁹

On 18 October 2019, the Ministry of the Environment announced that Brazil is on track to achieve CO₂ emissions target for 2020. The projection was published by the Sustainable Development Objective (SDG) in the Applied Economic Institute. Brazil's objective is to emit 1,977 million tons of carbon dioxide equivalent, and the study concluded that it is a feasible target if there are no unforeseen amendments to national policy.³²⁰⁰

On 26 October 2019, Brazil attended the 29th BASIC meeting in Beijing, with delegates from China, South Africa and India. In preparation for 25th Conference of the Parties to the United Nations Framework Convention on Climate Change, they acknowledged climate change and “confirmed their commitments to multilateralism in order to address the issue and to foster climate resilience and promote greenhouse gas emissions reduction.”³²⁰¹ They also emphasized their commitment to the implementation of the Paris Agreement and support of other developing countries in doing so as

³¹⁹⁸ Via Viva, Socio-Environmental Seminar on Transport Infrastructure, Via Viva 2019 (Brasilia) 25 March 2019. Access Date: 25 March 2019. <http://viaviva.infraestrutura.gov.br/sobre-o-evento/>

³¹⁹⁹ Actions To Protect Ozone, Ministry of Environment (Brasilia) 13 September 2019. Access Date: 25 March 2019. <https://www.mma.gov.br/informma/item/15617-a%C3%A7%C3%B5es-para-proteger-o-oz%C3%B4nio.html>

³²⁰⁰ Brazil Close to Meeting CO₂ Reduction Target in 2020, Ministry of Environment (Brasilia) 21 October 2019. Access Date: 25 March 2019. <https://www.mma.gov.br/informma/item/15650-brasil-perto-de-cumprir-meta-de-redu%C3%A7%C3%A3o-de-co2-em-2020.html>

³²⁰¹ Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020. <https://pib.gov.in/Pressreleashere.aspx?PRID=1589318>

well as they are the most vulnerable to climate change repercussions.³²⁰² Additionally, the BASIC group encouraged funding to the Green Climate Fund to support developing countries as they adapt.³²⁰³ The Green Climate Fund sets out to “help developing countries reduce their greenhouse gas emissions and enhance their ability to respond to climate change.”³²⁰⁴

On 20 November 2019, the Ministry of the Environment and the governors of the nine states that compose the Legal Amazon deliberated measures to encourage regional sustainable development and prevent environmental crimes. The primary pillars of the national plan include land regularization, ecological-economic zoning, payment for environmental services, creation of a bioeconomy, and criminalization of illegal deforestation.³²⁰⁵

On 10 December 2019, Minister of the Environment Ricardo Salles spoke at the United Nations Conference on Climate Change, states that the implementation of Article 6 of the Paris Agreement is an imperative step for developed countries to demonstrate its commitment to developing countries. Article 6 calls for “market mechanisms that support the implementation of carbon emission cut commitments.”³²⁰⁶

On 21 January 2020, the Minister of the Environment affirmed that the Council of the Amazon will be collaborating with the Secretariat of the Amazon to develop sustainable development policies for the region.³²⁰⁷

Brazil has fully complied with its commitment to foster innovation in a wide range of areas for low emissions through its Via Viva Seminar, Brazilian HCFC Elimination program, and is on track to meet its carbon dioxide reduction goals for 2020. It has strived to foster innovation in a wide range of areas for resilient development through its Amazon conservation efforts in the form of the Legal Amazon’s national plan and the Amazon Council collaboration, and as a member of the Green Climate Fund.

Thus, Brazil receives a score of +1.

Analyst: Margaret de Leon

Canada: +1

Canada has fully complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development.

³²⁰² Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020. <https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

³²⁰³ Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020. <https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

³²⁰⁴ About GCF, Green Climate Fund (Songdo). Access Date: 3 April 2020. <https://www.greenclimate.fund/about/contact>

³²⁰⁵ Ministry of Environment and Governors of the Legal Amazon Launch Pact for Result Environmentalism, Ministry of the Environment (Brasilia) 10 December 2019. Access Date: 25 March 2019. <https://www.mma.gov.br/informma/item/15661-minist%C3%A9rio-do-meio-ambiente-e-governadores-da-amaz%C3%B4nia-legal-lan%C3%A7am-pacto-pelo-ambientalismo-de-resultado.html>

³²⁰⁶ Salles Demands Implementation of the Paris Agreement at CoP 25, Ministry of the Environment (Brasilia) 10 December 2019. Access Date: 25 March 2019. <https://www.mma.gov.br/informma/item/15668-salles-cobra-impliment%C3%A7%C3%A3o-do-acordo-de-paris-na-cop-25.html>

³²⁰⁷ Amazon Council and Amazon Secretariat to Work Together, says Environment, Ministry of the Environment (Brasilia) 22 January 2020. Access Date: 25 March 2019. <https://www.mma.gov.br/informma/item/15685-conselho-da-amaz%C3%B4nia-e-secretaria-da-amaz%C3%B4nia-ir%C3%A3o-trabalhar-juntos,-diz-ministro-do-meio-ambiente.html>

On 3 July 2019, the federal government of Canada through the Environmental Damages Fund awarded more than CAD2.4 million for 22 community-based environmental restoration projects in Alberta, British Columbia, Newfoundland and Labrador, Nova Scotia, Nunavut, Ontario, Quebec, and Saskatchewan. The goal is to protect nature and ensure court-awarded penalties for environmental violations.³²⁰⁸

On 3 July 2019, Minister of Environment and Climate Change Catherine McKenna announced up to CAD250,000 in funding through the government's Climate Action Fund to Clean Air Partnership. The goal is to “engage residents in climate action and support healthy lifestyles by increasing opportunities for cycling in Markham with more bicycles, workshops, tools, and repair clinics.”³²⁰⁹

On 11 July 2019, Minister McKenna announced CAD4.7 million to fund nine climate change research projects. The goal is to “advance the knowledge of the role forests play, accelerate innovation in energy-efficient cooling technologies, and improve the understanding of how carbon interacts with the forests, wetlands, and oceans.”³²¹⁰

On 12 July 2019, Minister McKenna announced CAD1.3 million in funding in support for climate action by the City of Winnipeg. The funding will: “1) expand the Brady Road Resource Management Facility landfill gas capture system, 2) expand Winnipeg's collection system for polluting gas from landfills and upgrade existing wells, 3) reduce methane emissions.”³²¹¹

On 17 July 2019, the government announced it is investing CAD6.4 million in 22 First Nations–led projects through the Indigenous Guardians Pilot Program. The projects will enable First Nations to take action to protect clean air and clean water, fight climate change, and protect a healthy environment for all.³²¹²

On 24 July 2019, Minister of Transport Marc Garneau announced that the government is renewing the Federal Contaminated Sites Action Plan for another 15 years and investing CAD1.16 billion from 2020 to 2024. The goal is to continue to “remediate contaminated sites — improving the health of the environment, fueling economic growth, and creating jobs.”³²¹³

On 26 July 2019, Minister McKenna announced CAD200,000 in funding through the federal government's Climate Action Fund to ilinniipaa Skills Development Centre. This funding will help

³²⁰⁸ Canada supporting Canadian solutions to protect nature through 22 projects across the country, Environment and Climate Change Canada (Dartmouth) 3 July 2019. Access Date: 2 February 2020.

<https://www.canada.ca/en/environment-climate-change/news/2019/07/canada-supporting-canadian-solutions-to-protect-nature-through-22-projects-across-the-country.html>

³²⁰⁹ Canada supports climate education and awareness by Clean Air Partnership, Environment and Climate Change Canada (Toronto) 3 July 2019. Access Date: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/07/canada-supports-climate-education-and-awareness-by-clean-air-partnership.html>

³²¹⁰ Canada is investing in important climate change research, Environment and Climate Change Canada (Victoria) 11 July 2019. Access Date: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/07/canada-is-investing-in-important-climate-change-research.html>

³²¹¹ Government of Canada supports climate action by the City of Winnipeg, Environment and Climate Change Canada (Winnipeg) 12 July 2019. Access Date: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/07/government-of-canada-supports-climate-action-by-the-city-of-winnipeg.html>

³²¹² Canada invests \$6.4 million to support First Nations leadership in conservation, Environment and Climate Change Canada (Ottawa) 17 July 2019. Access Date: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/07/canada-invests-64-million-to-support-first-nations-leadership-in-conservation.html>

³²¹³ Government of Canada invests \$1.16 billion to continue cleaning up contaminated sites, Environment and Climate Change Canada (Victoria) 24 July 2019. Access Date: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/07/government-of-canada-invests-116-billion-to-continue-cleaning-up-contaminated-sites.html>

“increase awareness about climate change in Nunavut by educating Inuit youth, students, and businesses. iSDC will share information on how people can reduce their energy consumption, provide tips on energy conservation, and talk about how we can all take climate action in our lives.”³²¹⁴

On 7 August 2019, Minister McKenna announced CAD1.06 million in funding over three years for ten projects to restore and protect the Great Lakes. The projects will address issues such as toxic algae blooms in Lake Erie and restoring aquatic habitat in the bays and coastal wetlands of Toronto’s Tommy Thompson Park.³²¹⁵

On 7 August 2019, Minister McKenna announced up to CAD125,000 in funding through the Climate Action Fund to the International Institute for Sustainable Development. The funding will help Manitoba companies identify and capitalize on low-carbon business opportunities.³²¹⁶

On 7 August 2019, Member of Parliament for Winnipeg South and Parliamentary Secretary to the Minister for Women and Gender Equality Terry Duguid announced up to CAD35,000 for the Winnipeg-based Green Action Centre. The funding to help schools and Indigenous communities in Manitoba educate on food waste can help fight climate change and reduce carbon emissions.³²¹⁷

On 9 August 2019, Minister McKenna announced an investment of up to CAD600,000 under the Innovative Solutions Canada Program for four new projects. The goal of these projects is to help businesses to come up with new ideas to solve problems regarding sustainability in the agricultural sector to secure a strong economy in light of extreme weather caused by climate change.³²¹⁸

On 13 August 2019, Minister McKenna announced up to CAD10 million from the partnerships stream of the Low Carbon Economy Fund to support projects that reduce greenhouse gas emissions for small and medium-sized businesses with up to 499 employees. The goal is to “help businesses across the country cut pollution through projects like retrofits, methane capture in municipal waste, switching to cleaner fuels and more efficient business operations, or greener ways to heat or cool existing buildings.”³²¹⁹

³²¹⁴ Canada invests in climate education and awareness in Nunavut, Environment and Climate Change Canada (Iqaluit) 26 July 2019. Access Date: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/07/canada-invests-in-climate-education-and-awareness-in-nunavut.html>

³²¹⁵ Government of Canada invests to restore and protect Great Lakes, Environment and Climate Change Canada (Hamilton/Burlington) 7 August 2019. Access Date: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/government-of-canada-invests-to-restore-and-protect-great-lakes.html>

³²¹⁶ Government of Canada supports climate education and awareness by International Institute for Sustainable Development, Environment and Climate Change Canada (Winnipeg) 7 August 2019. Access Date: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/government-of-canada-supports-climate-education-and-awareness-by-international-institute-for-sustainable-development.html>

³²¹⁷ Government of Canada supports climate action by Green Action Centre, Environment and Climate Change Canada (Winnipeg) 7 August 2019. Date Accessed: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/government-of-canada-supports-climate-action-by-green-action-centre.html>

³²¹⁸ Canada supports innovative solutions for agricultural and Environmental Challenges, Environment and Climate Change Canada (Ottawa) 9 August 2019. Date Accessed: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/canada-supports-innovative-solutions-for-agricultural-and-environmental-challenges.html>

³²¹⁹ Government of Canada supporting small and medium-sized businesses through the Low Carbon Economy Fund, Environment and Climate Change Canada (Ottawa) 13 August 2019. Date Accessed: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/government-of-canada-supporting-small-and-medium-sized-businesses-through-the-low-carbon-economy-fund.html>

On 14 August 2014, Minister McKenna announced the government is providing funding as part of the Canada Nature Fund to “protect important wildlife habitat, conserve and restore wetlands, and expand protected areas on Prince Edward Island.”³²²⁰

On 16 August 2019, Minister McKenna announced over CAD2.6 million over three years to support 34 new EcoAction Community Funding Program projects across Canada. The goal of these projects is to help protect and conserve Canada’s freshwater resources.³²²¹

On 19 August 2019, Minister McKenna announced the first in a series of 67 conservation initiatives launching in every province and territory, as part of Canada’s Nature Legacy initiative. These projects are “supported by the CAD175 million federal Canada Nature Fund’s Target 1 Challenge, to expand a connected network of protected and conserved areas across Canada.”³²²² One use of the funds will be to grant CAD4.3 million to support 49 new conservation projects across Canada, over the next three years. The goal is to “protect priority places, species, and sectors and recovering multiple land-based species at risk and their ecosystems.”³²²³ There will also be CAD7.6 million in funding granted to help the University of British Columbia with its biomass expansion project. The goal is to increase the University’s renewable energy capacity and meet the increasing demand of a growing campus while reducing emissions.³²²⁴ Minister McKenna also announced CAD119,000 for Student Energy, through the federal Climate Action Fund. This funding will “help Student Energy develop a program to support jobs for young people in climate change fields.”³²²⁵

On 22 August 2019, Minister McKenna joined the Government of Yukon and First Nations partners to support the Peel Watershed Regional Land Use Plan, “which creates new protected and conserved areas to safeguard the watershed and the wildlife that call it home.” This will also help Canada double the amount of nature it is protecting.³²²⁶

On 27 August 2019, Minister McKenna announced the launch of the Energy Savings Rebate program to help make climate action affordable for Ontarians. Through this program, “a total of

³²²⁰ The Government of Canada expands protected areas in Prince Edward Island, Environment and Climate Change Canada (Charlottetown) 14 August 2019. Date Accessed: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/the-government-of-canada-expands-protected-areas-in-prince-edward-island.html>

³²²¹ The Government of Canada supports community action to protect and conserve freshwater resources, Environment and Climate Change Canada (Ottawa) 16 August 2019. Date Accessed: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/the-government-of-canada-supports-community-action-to-protect-and-conserve-freshwater-resources.html>

³²²² Canada’s \$175 million investment in nature kicks off conservation projects in every province and territory, Environment and Climate Change Canada (Victoria) 19 August 2019. Date Accessed: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/canadas-175-million-investment-in-nature-kicks-off-conservation-projects-in-every-province-and-territory.html>

³²²³ Canada invests \$4.3 million in local conservation projects to protect species, Environment and Climate Change Canada (Victoria) 19 August 2019. Date Accessed: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/canada-invests-43-million-in-local-conservation-projects-to-protect-species-at-risk.html>

³²²⁴ Government of Canada supports climate action by the University of British Columbia, Environment and Climate Change Canada (Vancouver) 19 August 2019. Date Accessed: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/government-of-canada-supports-climate-action-by-the-university-of-british-columbia.html>

³²²⁵ Canada supports climate-related jobs and training for students, Environment and Climate Change Canada (Vancouver) 19 August 2019. Date Accessed: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/canada-supports-climate-related-jobs-and-training-for-students.html>

³²²⁶ Government of Canada supports Government of Yukon and First Nations in protecting nature in Peel watershed, Environment and Climate Change Canada (Mayo) 22 August 2019. Date Accessed: 2 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/08/government-of-canada-supports-government-of-yukon-and-first-nations-in-protecting-nature-in-peel-watershed.html>

CAD200 million of support over two years will be provided to Ontario retailers to offer up to 25 per cent off the purchase price of specific energy-saving products. These products can help Ontarians reduce their energy use by up to 60 per cent more than using the standard models.³²²⁷

On 3 September 2019, Minister McKenna announced CAD2.4 million for Enterprise Indorama PTA Montreal SEC. The funds will be used for the installation of new equipment and clean technology to manage the safe recovery and reuse of organic compounds. The goal of this is to reduce carbon pollution.³²²⁸ She also announced CAD80,000 to Nature Canada through the Climate Action Fund. The funds will be used to hold a national conference for Canada's leading conservation agencies. The goal is to discuss climate change and mitigate its effects by preserving nature and ecosystems.³²²⁹ In addition, Minister of Fisheries, Oceans, and the Canadian Coast Guard Jonathon Wilkinson announced CAD 50,000 for the Fraser Basin Council. The goal is to develop an interactive online platform for young Canadians to discuss climate change and how it has impacted them.³²³⁰

On 4 September 2019, Minister McKenna announced CAD3 million in funding to Centre de Traitement de la Biomasse de la Montérégie Inc. The goal of the funds is to help the company transform organic waste into renewable energy and biofertilizer. This will help to improve air and water quality, reduce greenhouse gas emissions, and improve soil quality.³²³¹

On 4 September 2019, Minister McKenna announced CAD14,339 for Carbon Conversation TO. The goal of the funds is to empower young people to create a dialogue about climate change and reduce their carbon footprint.³²³²

On 4 September 2019, Minister McKenna announced funds of CAD80,000 will be given to Climate Smart. This will be used to improve the company's carbon-mapping tool which they use to inform small and medium-sized businesses about their carbon footprint in New Brunswick. The goal is to help these businesses reduce their emissions and save money.³²³³

³²²⁷ Canada announces new Energy Saving Rebate program to help Ontarians save money and fight climate change, Environment and Climate Change Canada (Toronto) 27 August 2019. Date Accessed: 2 February 2020.

<https://www.canada.ca/en/environment-climate-change/news/2019/08/canada-announces-new-energy-savings-rebate-program-to-help-ontarians-save-money-and-fight-climate-change.html>

³²²⁸ Government of Canada supports climate action by Enterprise Indorama PTA Montreal S.E.C., Environment and Climate Change Canada (Montreal) 3 September 2019. Date Accessed: 3 February 2020.

<https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-action-by-entreprise-indorama-pta-montreal-sec.html>

³²²⁹ Government of Canada supports climate action by Nature Canada, Environment and Climate Change Canada (Ottawa) 3 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-action-by-nature-canada.html>

³²³⁰ Government of Canada supports climate action by Fraser Basin Council, Environment and Climate Change Canada (Burnaby) 3 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-action-by-fraser-basin-council.html>

³²³¹ Government of Canada supports climate action by the Centre de Traitement de la Biomasse de la Montérégie Inc., Environment and Climate Change Canada (Saint-Pie) 4 September 2019. Date Accessed: 3 February 2020.

<https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-action-by-the-centre-de-traitement-de-la-biomasse-de-la-monteregie-inc.html>

³²³² Government of Canada supports climate action by Carbon Conversation TO empowering young people to fight climate change, Environment and Climate Change Canada (Toronto) 4 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-action-by-carbon-conversations-to-empowering-young-people-to-fight-climate-change.html>

³²³³ Government of Canada supports climate action by Climate Smart, Environment and Climate Change Canada (Vancouver) 4 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-action-by-climate-smart.html>

On 4 September 2019, Minister McKenna announced that the federal government would be investing CAD8 million in 52 projects across the country working towards species conservation. The aim is to achieve sustainable protection for at-risk species.³²³⁴

On 5 September 2019, Parliamentary Secretary to the Minister of Environment and Climate Change and Member of Parliament for Central Nova Sean Fraser announced that the federal government will be providing CAD14 million to the province of Nova Scotia. The goal of these funds is to protect and conserve nature and restore wetlands.³²³⁵

On 5 September 2019, Minister McKenna announced CAD75,710 in funds to the Saskatchewan Environmental Society to develop the Saskatchewan Low Carbon Stories project. The objective is to help people in rural Saskatchewan share their low carbon business solutions.³²³⁶

On 5 September 2019, Minister McKenna announced funds of CAD140,000 will be given to the New Brunswick Environmental Network. The goal is to help teachers educate all Canadians about the realities of climate change, and climate resiliency, adaptation and sustainable living.³²³⁷

On 5 September 2019, Minister McKenna announced funds of CAD145,000 will be given to Vivre en Ville for its project Building with Climate Change. The goal of the project is to help developers “adopt good practices in emissions reduction and climate change adaptation and implement sustainable building projects.”³²³⁸

On 5 September 2019, Minister McKenna announced CAD100,000 will be granted to Envirocentre. The goal of the funds is to help the company develop the series “Let’s Talk Green Economy” for Ottawa businesses. This will help expand their awareness of climate change and how to take action.³²³⁹

On 5 September 2019, Minister of Environment, Forestry and Fisheries Barbara Creecy and Minister McKenna signed a memorandum of understanding to cooperate on environmental and climate issues. These issues include “fighting climate change, increasing environmental compliance and enforcement, improving chemicals and waste management, protecting biodiversity and enhancing

³²³⁴ Canada funds 52 new projects to protect and recover species at risk, Environment and Climate Change Canada (Toronto) 4 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/canada-funds-52-new-projects-to-protect-and-recover-species-at-risk.html>

³²³⁵ Canada makes investment in protecting nature across Nova Scotia, Environment and Climate Change Canada (Musquodoboit Harbour) 5 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/canada-makes-investment-in-protecting-nature-across-nova-scotia.html>

³²³⁶ Government of Canada supports climate action by Saskatchewan Environmental Society, Environment and Climate Change Canada (Saskatoon) 5 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-action-by-saskatchewan-environmental-society.html>

³²³⁷ Government of Canada supports climate education by New Brunswick Environmental Network, Environment and Climate Change Canada (Moncton) 5 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-education-by-new-brunswick-environmental-network.html>

³²³⁸ Government of Canada supports climate action by Vivre en Ville, Environment and Climate Change Canada (Quebec) 5 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-action-by-vivre-en-ville.html>

³²³⁹ Government of Canada supports climate action by Envirocentre, Environment and Climate Change Canada (Ottawa) 5 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-action-by-envirocentre.html>

conservation, and combating marine litter and plastics policy,” and utilizing technology for clean economic growth.³²⁴⁰

On 6 September 2019, Minister McKenna announced the federal government will provide CAD10 million over two years to the North American Waterfowl Management Plan. The goal is to protect wetlands and migratory birds, especially those species that are at risk.³²⁴¹ She also announced CAD97,100 in funding for Agriculture in the Classroom Saskatchewan. The aim is to “connect kids to the environment and foster awareness of sustainability and climate change.”³²⁴² In addition, CAD3 million in funding will be granted to Climate Smart. The goal of the funds will be to help four participating businesses reduce their greenhouse gas emissions and save energy.³²⁴³

On 7 September 2019, Member of Parliament for West Vancouver – Sunshine Coast – Sea to Sky Country and Parliamentary Secretary to the Minister of Foreign Affairs Pamela Goldsmith-Jones announced there would be CAD10,000 in funding granted to the Gibson Marine Education Centre. The goal of the funds is to educate Canadians using a blend of scientific and traditional knowledge about climate change and teach them how to build a healthier environment.³²⁴⁴

On 10 September 2019, Minister McKenna announced that the Government of Canada would be providing CAD4.7 million in funds to the Government of Nunavut to establish the Agguttinni Territorial Park. The creation of this park will conserve large sources of freshwater, cultural sites, and preserve habitat for endangered species.³²⁴⁵

On 10 December 2019, Minister of Environment and Climate Change Jonathon Wilkinson announced that the government would contribute CAD5 million to support the Partnership for Market Implementation at the 25th Conference of the Parties to the United Nations Framework Convention on Climate Change. The aim is to help developing countries introduce carbon pricing tools.³²⁴⁶

³²⁴⁰ South Africa and Canada agree to cooperate on environmental protection and climate change, Department of Environmental Affairs (Pretoria) 5 September 2019. Access Date: 3 April 2020. https://www.environment.gov.za/mediarelease/southafricaandcanada_environmentalprotection_climatechange_memorandumofunderstanding

³²⁴¹ The Government of Canada invests to protect wetlands and migratory birds, Environment and Climate Change Canada (Ottawa) 6 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/the-government-of-canada-invests-to-protect-wetlands-and-migratory-birds.html>

³²⁴² Government of Canada supports climate education and awareness by Agriculture in the Classroom Saskatchewan, Environment and Climate Change Canada (Saskatoon) 6 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-education-and-awareness-by-agriculture-in-the-classroom-saskatchewan.html>

³²⁴³ Government of Canada supports climate action by Climate Smart, Environment and Climate Change Canada (Ajax) 6 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/government-of-canada-supports-climate-action-by-climate-smart0.html>

³²⁴⁴ Canada empowering young people to fight climate change through supports for Gibsons Marine Education Centre, Environment and Climate Change Canada (Gibsons) 7 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/canada-empowering-young-people-to-fight-climate-change-through-support-for-gibsons-marine-education-centre.html>

³²⁴⁵ Canada invests in conservation projects in Nunavut, Environment and Climate Change Canada (Ottawa) 10 September 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/09/canada-invests-in-conservation-projects-in-nunavut.html>

³²⁴⁶ Canada announces support for new carbon-pricing initiative at COP25, Environment and Climate Change Canada (Madrid) 10 December 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/12/canada-announces-support-for-new-carbon-pricing-initiative-at-cop25.html>

On 17 December 2019, Minister Wilkinson announced CAD8.5 million in funds will be given to the University of Calgary to support energy-saving projects. The goal is to reduce energy consumption in buildings on campus.³²⁴⁷

On 18 December 2019, United States Assistant Secretary of State for Energy Resources Francis Fannon and Canadian Associate Deputy Minister of Natural Resources Shawn Tupper signed a Memorandum of Understanding on energy mineral resources. The goals are to: “1) promote responsible and sustainable mining practices in the energy mineral sector, 2) support resilient supply chains of energy minerals by facilitating trade and industry connectivity, 3) establish measures to meet expected demand for clean energy technologies.”³²⁴⁸

On 20 December 2019, Minister Wilkinson announced that the Government of Canada “will launch a strategic assessment to provide guidance on how future new thermal coal mine projects will be assessed under the Impact Assessment Act.”³²⁴⁹ The goal of this is to help with the transition of phasing out traditional coal-fired power by 2030.³²⁵⁰

On 20 January 2020, Minister Wilkinson announced that funds of CAD100,000 will be given to Assiniboine Park Conservancy and Eco-West Canada. The goal of Assiniboine Park Conservancy is to help young Canadians influence positive change on the environment. The goal of Eco-West Canada is to help small and medium-sized entrepreneurs create climate action and resiliency plans.³²⁵¹

On 10 February 2020, Minister Wilkinson announced CAD200,000 will be provided to the Youth Climate Lab from the federal Climate Action Fund. The funding will be used to develop the FutureXChange program to engage young Canadians to create their own climate projects that employ Traditional Knowledge. These participants then spread across the country as Community Activators to help create local climate initiatives in their own communities and reach over 150,000 Canadians.³²⁵²

On 11 February 2020, Member of Parliament for Peterborough-Kawartha Maryam Monsef announced that up to CAD6 million will be granted from the federal government to the City of Peterborough to support their climate change initiatives. The funds will be used to develop new

³²⁴⁷ Government of Canada announces support for energy savings at University of Calgary, Environment and Climate Change Canada (Calgary) 17 December 2019. Date Accessed: 3 February 2020.

<https://www.canada.ca/en/environment-climate-change/news/2019/12/government-of-canada-announces-support-for-energy-savings-at-university-of-calgary.html>

³²⁴⁸ United States and Canada Sign Memorandum of Understanding on Critical Energy Minerals, US Department of State (Washington) 18 December 2019. Access Date: 2 February 2020. <https://www.state.gov/united-states-and-canada-sign-memorandum-of-understanding-on-critical-energy-minerals/>

³²⁴⁹ Canada launches strategic assessment of thermal coal mining, Environment and Climate Change Canada (Gatineau) 20 December 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/12/canada-launches-strategic-assessment-of-thermal-coal-mining.html>

³²⁵⁰ Canada launches strategic assessment of thermal coal mining, Environment and Climate Change Canada (Gatineau) 20 December 2019. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2019/12/canada-launches-strategic-assessment-of-thermal-coal-mining.html>

³²⁵¹ New Climate Action Funding Announced for Youth and Businesses in Manitoba, Environment and Climate Change Canada (Winnipeg) 20 January 2020. Date Accessed: 3 February 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/01/new-climate-action-funding-announced-for-youth-and-businesses-in-manitoba.html>

³²⁵² Government of Canada announces support for Youth Climate Lab, Environment and Climate Change Canada (Vancouver) 10 February 2020. Date Accessed: 20 March 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/02/government-of-canada-announces-support-for-youth-climate-lab.html>

composting centres to limit the amount of organic waste in landfills and expand the current Green Bin program in the city.³²⁵³

On 18 February 2020, Minister Wilkinson announced that the federal government will provide CAD250,000 to the Assembly of First Nations Yukon Region. The funding will be used to hold a gathering to empower First Nations to take the lead in climate action in the Yukon territory. This will be done through encouraging youth leadership and exploring new solutions for energy usage throughout communities.³²⁵⁴

On 20 February 2020, Minister Wilkinson and Prince Edward Island's Minister of Environment, Water and Climate Change Brad Trivers announced that CAD1.4 million in federal funding will be provided to the government of Prince Edward Island. The goal of this funding is to help the province conserve 4400 hectares of vital habitat and protect existing conserved areas. It will also help protect endangered species in these protected areas.³²⁵⁵

On 21 February 2020, Minister of Health Patty Hajdu announced that the federal government will provide CAD100,000 to Science North from the Climate Action Fund. The goal of the funds is to teach indigenous students about climate change throughout the province of Ontario. This will be done through hands-on school projects and through events that teach them how to take action to confront climate change.³²⁵⁶

On 21 February 2020, Minister Wilkinson announced that two conservation agreements between British Columbia and the West Moberly and Saulneau First Nations have been met. The agreements aim to recover the population of Southern Mountain Caribou in the region and protect the current numbers. The goal of the agreements is to reverse the damage due to industrialization (endangering the caribou population) and is a part of greater conservation efforts across Canada.³²⁵⁷

On 4 March 2020, Member of Parliament for Saint John-Rothesay Wayne Long announced that the City of Saint John in New Brunswick will receive up to CAD4 million in federal funding. The money will be used as an investment in the construction of new heating and cooling systems that rely on renewable, clean energy for a large commercial complex containing various buildings. The project

³²⁵³ Government of Canada announces support for the City of Peterborough's Climate Action Initiatives, Environment and Climate Change Canada (Peterborough) 11 February 2020. Date Accessed: 20 March 2020.

<https://www.canada.ca/en/environment-climate-change/news/2020/02/government-of-canada-announces-support-for-the-city-of-peterboroughs-climate-action-initiatives.html>

³²⁵⁴ Government of Canada supports climate action by the Assembly of First Nations Yukon Region, Environment and Climate Change Canada (Whitehorse) 18 February 2020. Date Accessed: 20 March 2020.

<https://www.canada.ca/en/environment-climate-change/news/2020/02/government-of-canada-supports-climate-action-by-the-assembly-of-first-nations-yukon-region.html>

³²⁵⁵ The Government of Canada invests in protected areas in Prince Edward Island, Environment and Climate Change Canada (Charlottetown) 20 February 2020. Date Accessed: 20 March 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/02/the-government-of-canada-invests-in-protected-areas-in-prince-edward-island.html>

³²⁵⁶ New Climate Action Funding Announced for Science North, Environment and Climate Change Canada (Thunder Bay) 21 February 2020. Date Accessed: 20 March 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/02/new-climate-action-funding-announced-for-science-north.html>

³²⁵⁷ New Conservation agreements signed to protect Southern Mountain Caribou in British Columbia, Environment and Climate Change Canada (Vancouver) 21 February 2020. Date Accessed: 20 March 2020.

<https://www.canada.ca/en/environment-climate-change/news/2020/02/new-conservation-agreements-signed-to-protect-southern-mountain-caribou-in-british-columbia.html>

will reduce greenhouse gas emissions by 760,000 tonnes. There will also be an additional CAD570,600 granted to replace 1,700 outdoor street lights with high-efficiency LED lights.³²⁵⁸

On 4 March 2020, Member of Parliament for Windsor-Tecumseh Irek Kusmierczyk announced that the government will be providing CAD125,000 to the University of Windsor. The funds will be used for law students to train youth on the legal policy aspects of “climate change mitigation.”³²⁵⁹ The goal of this effort is to help people in Ontario implement climate change policies effectively in their cities.³²⁶⁰

On 4 March 2020, Minister Wilkinson announced that the federal government will be granting CAD2.3 million to the Government of Yukon to support climate change initiatives. The funds are to be used to connect an already existing biomass heating system in the territory which will reduce emissions by 82 per cent.³²⁶¹

On 6 March 2020, Minister Wilkinson and Manitoba’s Minister of Conservation and Climate Sarah Guillemard began the application process for Manitoba’s new Efficient Trucking Program. This program will help to reduce emissions in the province providing rebates for applicants of up to 50 per cent on fuel-saving technology (such as low rolling resistance tires).³²⁶²

Country has fully complied with its commitment to foster innovation in a wide range of areas for low emissions through its Climate Action Fund to Clean Air Partnerships, Low Carbon Economy Fund, phasing out of coal-fired power and investment in climate change and energy-efficient technology. Further, it has strived to foster innovation in a wide range of areas for resilient development through its Environmental Damages Fund, Indigenous Guardians Pilot Program and investment in Building with Climate Change.

Thus, Canada receives a score of +1.

Analyst: Gabrielle Regimbal

China: 0

China has partially complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development.

On 17 September 2019, the Ministry of the Environment and Ecology released a report for the United Nations Climate Action Summit detailing their position and nine actions they will be taking to

³²⁵⁸ Government of Canada announces support for the City of Saint John and Saint John Energy’s Climate Change Initiatives, Environment and Climate Change Canada (Saint John) 4 March 2020. Date Accessed: 20 March 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/03/government-of-canada-announces-support-for-the-city-of-saint-john-and-saint-john-energys-climate-change-initiatives.html>

³²⁵⁹ New climate action funding announced for Windsor law students, Environment and Climate Change Canada (Windsor) 4 March 2020. Date Accessed: 17 March 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/03/new-climate-action-funding-announced-for-windsor-law-students.html>

³²⁶⁰ New climate action funding announced for Windsor law students, Environment and Climate Change Canada (Windsor) 4 March 2020. Date Accessed: 17 March 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/03/new-climate-action-funding-announced-for-windsor-law-students.html>

³²⁶¹ Government of Canada supports climate action by the Government of Yukon, Environment and Climate Change Canada (Whitehorse) 4 March 2020. Date Accessed: 17 March 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/03/government-of-canada-supports-climate-action-by-the-government-of-yukon.html>

³²⁶² Canada and Manitoba launch application process for the Efficient Trucking Program, Environment and Climate Change Canada (Winnipeg) 6 March 2020. Date Accessed: 17 March 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/03/canada-and-manitoba-launch-application-process-for-the-efficient-trucking-program.html>

combat climate change. Firstly, it will be taking a “nature-based” approach that prioritizes nature’s role in dealing with the risks of climate change and “foster a low-emission and climate-resilient society.”³²⁶³ Ways it will achieve this is by fostering biodiversity to harness grasslands and forestry as carbon sinks, and having mechanisms in place to improve flood control, drought and disaster mitigation resources. Secondly, China proposed to address social and political drivers through the “Climate Action Targets for 2020 and 2030.”³²⁶⁴ It has taken measures to enhance its legal and policy frameworks that “promote green production and consumption, fostered a sound economic structure that facilitates green, low-carbon, and circular development, established regulatory agencies to manage state-owned natural resource assets and monitor natural ecosystems.”³²⁶⁵ Thirdly, China recognizes and supports youth and mobilization as proponents for climate change efforts.³²⁶⁶ Fourthly, it recognizes the need for energy transition and states it will continue its path of renewable energy production and consumption, and will seek further cooperation with other countries for low carbon, sustainable development.³²⁶⁷ Fifthly, it will focus on industrial transformation by “strengthening energy efficiency and reducing greenhouse gas emissions.”³²⁶⁸ Sixthly, it will utilize infrastructure, cities and local action. It will accelerate efforts to make cities more adaptive, create more “sponge city” developments and reduce emissions. It will also utilize green transportation, green building and clean energy as part of its “Belt and Road” project.³²⁶⁹ Seventhly, China recognizes the need for a mitigation strategy which highlights emission control and capacity building through the creation of low-carbon products and green development.³²⁷⁰ Eighthly, it aims to foster resilience and adaptation through “disaster and risk management, improved ... monitoring ... early warning and disaster prevention and reduction measures, improved adaptability of the planting industry, and provide farmers with more on adaptation technologies.”³²⁷¹ Lastly, China calls commits

³²⁶³ UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

³²⁶⁴ UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

³²⁶⁵ UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

³²⁶⁶ UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

³²⁶⁷ UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

³²⁶⁸ UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

³²⁶⁹ UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

³²⁷⁰ UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

³²⁷¹ UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

to and calls on other nations to commit USD100 billion every year from 2020 onward to help developing nations address climate change.³²⁷²

On 26 October 2019, China hosted the 29th BASIC meeting in Beijing, with delegates from Brazil, South Africa and India. In preparation for the 25th Conference of the Parties to the United Nations Framework Convention on Climate Change, they acknowledged climate change and “confirmed their commitments to multilateralism in order to address the issue and to foster climate resilience and promote greenhouse gas emissions reduction.”³²⁷³ They also emphasized their commitment to the implementation of the Paris Agreement and support of other developing countries in doing so as well as they are the most vulnerable to climate change repercussions.³²⁷⁴ Additionally, the BASIC group encouraged funding to the Green Climate Fund to support developing countries as they adapt.³²⁷⁵ The Green Climate Fund sets out to “help developing countries reduce their greenhouse gas emissions and enhance their ability to respond to climate change.”³²⁷⁶

On 28 October, China hosted its Fourth Plenary Session of the 19th Central Committee of the Communist Party of China, where a new national land system was announced with emphasis on creating red line territories to create permanent quality farmland, ecological protection, and “urban boundaries.”³²⁷⁷ The goal is to use resources more efficiently and improve mechanisms for ecological restoration and sustainable development, in order to mitigate the effects of climate change.³²⁷⁸

On 6 November 2019, President Xi Jinping stated jointly with French President Emmanuel Macron that they confirm their support of the Paris Agreement.³²⁷⁹

China has partially complied with its commitment to foster innovation in a wide range of areas for low emission and resilient development. While it has promoted the use of green technology and carbon offsets at the UN Climate Summit and expressed support for the Paris Agreement, China has fallen short of the “wide range” threshold. However, it has fostered resilient development through its enhancement of monitoring systems, participation in the Green Climate Fund, and the creation of red lines.

³²⁷² UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

³²⁷³ Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020.

<https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

³²⁷⁴ Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020.

<https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

³²⁷⁵ Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020.

<https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

³²⁷⁶ About GCF, Green Climate Fund (Songdo). Access Date: 3 April 2020.

<https://www.greenclimate.fund/about/contact>

³²⁷⁷ Environment gets priority as country grows, Ministry of Ecology and Environment (Beijing) 3 January 2020. Access Date: 22 March 2020. http://english.mee.gov.cn/News_service/media_news/202001/t20200103_756697.shtml

³²⁷⁸ UN Climate Action Summit: China’s Position and Action, Ministry of Ecology and Environment (Beijing) 17 September 2019. Date Accessed: 3 April 2020.

http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml

³²⁷⁹ China, France reaffirm support of Paris climate agreement, call it 'irreversible' , Reuters (London) 6 November 2019. Access Date: 6 February 2020. <https://www.reuters.com/article/us-china-france-paris-agreement/china-france-reaffirm-support-of-paris-climate-agreement-call-it-irreversible-idUSKBN1XG0QJ>

Thus, China receives a score of 0.

Analyst: Jolie Leung

France: +1

France has fully complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development.

On 9 July 2019, the French foreign minister announced a tax between EUR1.50 and EUR20 for the majority of flights departing from France. The resulting tax revenue, expected to be over EUR180 million, is to fund low-emissions infrastructure for transportation.³²⁸⁰

On 10 August 2019, France and the United Kingdom announced a new phase of their Cob Bauge project, a joint venture in the process of developing energy-efficient housing, while also developing low-carbon technology in the field of construction. The development can save up to four tonnes of carbon dioxide emissions per building, and is significantly less carbon-intensive than concrete, brick and plastic building materials. It will also assist both governments in their goal to meet current European Union targets, and reduce their energy use by 20 per cent of 2012 levels by 2020.³²⁸¹

On 11 October 2019, the Ministry of Ecology and Inclusive Transition reaffirmed their commitment to the reduction and prevention of natural disasters. It stressed that there needs to be a strong understanding of different phenomena, and monitoring, forecasting and alerting systems. Prevention is achievable through risk planning, reduction of building vulnerability and should disaster occur, better construction and reconstruction.³²⁸²

On 6 November 2019, French President Emmanuel Macron stated jointly with Chinese President Xi Jinping that they confirm their support of the Paris Agreement.³²⁸³

On 7 November 2019, Minister of the Ecological and Inclusive Transition Elisabeth Borne announced four decisions: “the abandonment of the Europacity project, the rehabilitation of wasteland as a lever to fight against the artificialization of soils, the strengthening of protected areas and adaptation of forests to climate change.”³²⁸⁴ Borne states that the development of protected areas and preservation of forests will assist in the fight against global warming.³²⁸⁵

³²⁸⁰ France will implement an 'ecotax' on plane tickets from 2020, CTV News (Toronto) 9 July 2019. Access Date: 6 February 2020. <https://www.ctvnews.ca/lifestyle/france-will-implement-an-ecotax-on-plane-tickets-from-2020-1.4500091>

³²⁸¹ Down-to-earth collaboration in France and England for low-carbon, sustainable houses, European Commission (Brussels) 10 August 2019. Access Date: 9 February 2020. https://ec.europa.eu/regional_policy/en/projects/france/down-to-earth-collaboration-in-france-and-england-for-low-carbon-sustainable-houses

³²⁸² International Day for Natural Disaster Reduction, Ministry of the Ecological and Inclusive Transition (Paris) 11 October 2019. Access Date: 3 April 2020. <https://www.ecologique-solidaire.gouv.fr/journee-internationale-prevention-des-catastrophes-naturelles>

³²⁸³ China, France reaffirm support of Paris climate agreement, call it 'irreversible', Reuters (London) 6 November 2019. Access Date: 6 February 2020. <https://www.reuters.com/article/us-china-france-paris-agreement/china-france-reaffirm-support-of-paris-climate-agreement-call-it-irreversible-idUSKBN1XG0QJ>

³²⁸⁴ Third ecological defense advice: what to remember, Ministry of the Ecological and Inclusive Transition (Paris) 12 November 2019. Access Date: 3 April 2020. <https://www.ecologique-solidaire.gouv.fr/troisieme-conseil-defense-ecologique-quil-faut-retenir>

³²⁸⁵ Third ecological defense advice: what to remember, Ministry of the Ecological and Inclusive Transition (Paris) 12 November 2019. Access Date: 3 April 2020. <https://www.ecologique-solidaire.gouv.fr/troisieme-conseil-defense-ecologique-quil-faut-retenir>

On 8 November 2019, the French Senate passed the Law on Energy and Climate, which intends to respond to climate and ecological issues. Included in this law are objectives such as stopping carbon-based energy production by 2022, requiring new supermarkets and warehouses to install solar panels, and support towards hydrogen-based energy production.³²⁸⁶

On 16 January 2020, the Ministry of Ecology and Inclusive Transition reported that its last four coal plants will be shutting down by 2022 as part of their fight against climate change. France recognizes that while they only have four active plants, that only provide 1.18 per cent of national electricity, they also generate 10 million tonnes of carbon dioxide emissions.³²⁸⁷

On 12 February 2020, Minister Borne announced four main themes to be addressed. These four themes include the implementation of flood prevention programs, coping with declining coastlines by implementing building rules to limit erosion, protecting biodiversity by granting areas protected area status, and offering more environmentally friendly public services.³²⁸⁸

On 13 February 2020, France along with Austria, Germany, Liechtenstein, Luxembourg, the Netherlands, Switzerland, the Belgian Wallonia region and the European Commission adopted the Rhine 2040 programme. This collaboration of countries situated along the Rhine river aims at “managing the Rhine and its river basin in a sustainable way and make it climate resilient.”³²⁸⁹

On 21 February 2020, the Ministry of Ecological and Inclusive Transition announced the Fessenheim nuclear power plant will be shut down. This decision is part of its implementation of its energy-climate strategy that focuses on energy transition and green growth.³²⁹⁰

On 26 February 2020, the Ministry of the Ecological and Inclusive Transition announced that its CO2 emissions dropped by six per cent in 2019 due to wind and solar power.³²⁹¹

On 25 March 2020, France announced the opening of registration for Resilient Building Trophies organized by the Natural Risks Missions. As a competition, it “aims to promote buildings adapted to one or more natural and climatic hazards” as the government recognizes the threat of natural disasters such as floods, droughts and earthquakes.³²⁹²

France has fully complied with its commitment to foster innovation in a wide range of areas for low emissions through its Law on Energy and Climate, and its closure of both coal and nuclear power plants. Further, it has strived to foster innovation in a wide range of areas for resilient development

³²⁸⁶ Loi du 8 novembre 2019 relative à l'énergie et au climat, Vie publique (Paris) 12 November 2019. Access Date: 6 February 2020. <https://www.vie-publique.fr/loi/23814-loi-energie-et-climat-du-8-novembre-2019>

³²⁸⁷ Coal plants to close by 2022, Ministry of the Ecological and Inclusive Transition (Paris) 16 January 2020. Access Date: 3 April 2020. <https://www.ecologique-solidaire.gouv.fr/fermeture-des-centrales-charbon-aura-lieu-dici-2022>

³²⁸⁸ Fourth ecological defense council: government priorities for ecological transition, Ministry of the Ecological and Inclusive Transition (Paris) 12 February 2020. Access Date: 3 April 2020. <https://www.ecologique-solidaire.gouv.fr/quatrieme-conseil-defense-ecologique-priorites-du-gouvernement-transition-ecologique>

³²⁸⁹ Rhine countries adopt programme for sustainable management and climate resilience, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 13 February 2020. Access Date: 22 March 2020. <https://www.bmu.de/en/pressrelease/rhine-countries-adopt-programme-for-sustainable-management-and-climate-resilience/>

³²⁹⁰ Closure of the Fessenheim power station, Ministry of the Ecological and Inclusive Transition (Paris) 21 February 2020. Access Date: 3 April 2020. <https://www.ecologique-solidaire.gouv.fr/fermeture-centrale-fessenheim>

³²⁹¹ Electricity: 6% drop in French Co2 emissions in 2019, Ministry of the Ecological and Inclusive Transition (Paris) 26 February 2020. Access Date: 3 April 2020. <https://www.ecologique-solidaire.gouv.fr/electricite-baisse-6-des-emissions-francaises-co2-en-2019>

³²⁹² Launch of the Resilient Buildings trophies, Ministry of Ecology and Inclusive Transition (Paris) 25 March 2020. Access Date: 3 April 2020. <https://www.ecologique-solidaire.gouv.fr/lancement-des-trophees-batiments-resilients>

through its concentration on flood prevention, limitation of coastal erosion, protection of biodiversity, implementation of more eco-friendly public services and Resilient Building Trophies.

Therefore, France receives a score of +1.

Analyst: Jolie Leung

Germany: +1

Germany has fully complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development.

On 12 July 2019, the Environment Ministry launched a new program “Capacity Building and Finance for National and Local Action on Climate and Biodiversity” to provide grants of up to EUR125,000 to small projects promoting local climate and nature conservation in developing countries and emerging economies. This program also funds national and regional funding institutions so they can improve funding structures for climate action and biodiversity at local level.³²⁹³

On 20 September 2019, the German government announced the Climate Action Programme 2030 and Climate Change Act that included a carbon price on heating and transportation sectors, subsidies on replacing oil and gas heating systems, favorable treatment for electric vehicles, a re-iterated commitment to phase out coal-fired power stations by 2038 and an aim to increase the share of electric power generated by renewables to 65 per cent by 2030. The goal is to fulfill Germany’s commitments in the Paris Agreement by reducing CO2 emission by 55 per cent by 2030 and achieving greenhouse gas neutrality by 2050.³²⁹⁴

On 22 September 2019, “Federal Environment Minister Svenja Schulze announced that Germany is joining the international Powering Past Coal Alliance.” The goal is to “halt the construction of new coal-fired power plants, discontinue international financing of the coal industry, set a date for the coal phase-out and align their NDCs [nationally determined contributions] with the goals of the Paris Agreement.”³²⁹⁵

On 22 September 2019, the government, together with the government of Luxembourg and the Global Covenant of Mayors for Climate, announced the launch of the City Climate Finance Gap Fund. The German government intended to provide up to EUR40 million to grant high-quality low-carbon and climate resilient infrastructure projects in cities. The goal is to provide critical funding and a mature platform for climate friendly infrastructures in concentrated areas of greenhouse gas emission.³²⁹⁶

On 22 September 2019, the government, together with the Norwegian and British governments, issued a joint statement calling for “increased ambition and action by the global community to

³²⁹³ BMU launches global fund for local climate and biodiversity projects. Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 12 July 2019. Access Date: 9 February 2020.

<https://www.bmu.de/en/pressrelease/bmu-launches-global-fund-for-local-climate-and-biodiversity-projects/>

³²⁹⁴ Climate Action Programme 2030, The Federal Government of Germany (Berlin) 20 September 2019. Access Date: 5 February 2020. <https://www.bundesregierung.de/breg-en/issues/climate-action/klimaschutzprogramm-2030-1674080>

³²⁹⁵ Germany joins Powering Past Coal Alliance, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 22 September 2019. Access Date: 9 February 2020. <https://www.bmu.de/en/pressrelease/germany-joins-powering-past-coal-alliance-1/>

³²⁹⁶ Cities and National Governments Partner on EUR 100 million City Climate Finance Gap Fund, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 22 September 2019. Access Date: 9 February 2020. <https://www.bmu.de/en/pressrelease/cities-and-national-governments-partner-on-eur-100-million-city-climate-finance-gap-fund/>

conserve and restore tropical forests.”³²⁹⁷ The goal is to encourage protection of forests that trap greenhouse gases.³²⁹⁸

On 9 October 2019, the federal cabinet adopted the Climate Action Programme 2030 and the draft of the Climate Change Act. The Climate Change Act will set legally binding limits on CO₂ emissions for each economic sector for every year. The goal is to reduce carbon emissions by 55 per cent by 2030 and achieve greenhouse gas neutrality by 2050.³²⁹⁹

On 23 October 2019, the Environment Ministry announced an additional EUR21 million to be invested in marine conservation projects in Asia, Latin America and the Pacific Islands. “The projects will contribute to conserving biodiversity and landscape diversity of certain marine areas and reducing the effects of climate change.”³³⁰⁰

On 11 November 2019, the Environment Ministry launched a global competition for “projects implementing the Paris Agreement and projects on biological diversity.” A total of EUR240 million will be provided from International Climate Initiative Funds for the implementation of winning projects. “The aim is to support developing and emerging countries in their efforts to reduce greenhouse gas emissions, adapt to climate change and conserve biodiversity.”³³⁰¹

On 19 November 2019, the government and the World Bank “launched a new Facility to support private sector investment in green businesses and mobilize financing for climate change mitigation and adaptation activities in Africa.”³³⁰² The Facility “aims to unlock private sector investment that fosters climate activities of small and medium-sized enterprises in CwA [Compact with Africa] countries.”³³⁰³

³²⁹⁷ Germany, Norway and the United Kingdom call for more ambition on global forest protection, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 22 September 2019. Access Date: 9 February 2020. <https://www.bmu.de/en/pressrelease/germany-norway-and-the-united-kingdom-call-for-more-ambition-on-global-forest-protection-1/>

³²⁹⁸ Germany, Norway and the United Kingdom call for more ambition on global forest protection, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 22 September 2019. Access Date: 9 February 2020. <https://www.bmu.de/en/pressrelease/germany-norway-and-the-united-kingdom-call-for-more-ambition-on-global-forest-protection-1/>

³²⁹⁹ Minister Schulze: Climate action becomes law, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 9 October 2019. Access Date: 9 February 2020. <https://www.bmu.de/en/pressrelease/minister-schulze-climate-action-becomes-law-1/>

³³⁰⁰ Germany tops up funds for international marine conservation, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 23 October 2019. Access Date: 9 February 2020. <https://www.bmu.de/en/pressrelease/germany-tops-up-funds-for-international-marine-conservation-1/>

³³⁰¹ Launch of international competition on climate action and biological diversity, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 11 November 2019. Access Date: 9 February 2020. <https://www.bmu.de/en/pressrelease/launch-of-international-competition-on-climate-action-and-biological-diversity/>

³³⁰² G20 Compact with Africa Facility supports green business, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 19 November 2019. Access Date: 9 February 2020. <https://www.bmu.de/en/pressrelease/g20-compact-with-africa-facility-supports-green-business-1/>

³³⁰³ G20 Compact with Africa Facility supports green business, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 19 November 2019. Access Date: 9 February 2020. <https://www.bmu.de/en/pressrelease/g20-compact-with-africa-facility-supports-green-business-1/>

On 5 December 2019, the Environment Ministry announced EUR60 million funding for three new ecosystem-based adaption programmes. The goal is “to support adaptation to climate change via projects that benefit people and strengthen ecosystems at the same time.”³³⁰⁴

On 7 December 2019, the Environment Ministry, together with the German Society for International Cooperation “presented its new support programme for local projects that protect climate and biodiversity.” This program is funded by the International Climate Initiative and will grant EUR100,000 to 100 selected projects from small, non-profit organizations in developing countries. The goal is to “promote innovative ideas, adapted to the local conditions and needs, that aim to reduce greenhouse gas emissions, and to promote the establishment of weather-resilient and climate-resilient infrastructures” in developing regions.³³⁰⁵

On 10 December 2019, Environment Minister Svenja Schulze announced the establishment of a Power-to-X Secretariat that will bring all power-to-x activities (technologies used to produce synthetic fuels and base materials from electricity) under one roof and expand on them. The goal is to “improve global exchange of knowledge, better determine the climate action potential of these products and jointly develop sustainability criteria for their application.”³³⁰⁶

On 10 December 2019, Minister Schulze committed to provide an additional EUR30 million to the Adaptation Fund that finances “early warning systems for floods and heavy rainfall, and measures for securing water supply and switching to drought-resistant farming methods in agriculture” in developing countries.³³⁰⁷ The goal is help developing countries adapt to climate change.³³⁰⁸

On 11 December 2019, the government signed the Joint Declaration to reduce deforestation in Colombia with Colombia, Norway and the United Kingdom that devotes USD360 million in “payments for achieved emission reductions” and “contributions for policy objectives and implementation.”³³⁰⁹ The goal is to aid Colombia in preserving and restoring forests.³³¹⁰

³³⁰⁴ Minister Schulze: Nature often provides the best solutions for tackling climate change, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 5 December 2019. Access Date: 7 February 2020. <https://www.bmu.de/en/pressrelease/minister-schulze-nature-often-provides-the-best-solutions-for-tackling-climate-change/>

³³⁰⁵ New support programme for local small-scale projects in developing countries, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 7 December 2019. Access Date: 7 February 2020. <https://www.bmu.de/en/pressrelease/new-support-programme-for-local-small-scale-projects-in-developing-countries-1/>

³³⁰⁶ Environment Minister Schulze: “We need a global strategy for green hydrogen”, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 10 December 2019. Access Date: 7 February 2020. <https://www.bmu.de/en/pressrelease/environment-minister-schulze-we-need-a-global-strategy-for-green-hydrogen-1/>

³³⁰⁷ UN Climate Change Conference: Germany supports Adaptation Fund with 30 million euros, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 10 December 2019. Access Date: 7 February 2020. <https://www.bmu.de/en/pressrelease/un-climate-change-conference-germany-supports-adaptation-fund-with-30-million-euros/>

³³⁰⁸ UN Climate Change Conference: Germany supports Adaptation Fund with 30 million euros, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 10 December 2019. Access Date: 4 April 2020. <https://www.bmu.de/en/pressrelease/un-climate-change-conference-germany-supports-adaptation-fund-with-30-million-euros/>

³³⁰⁹ Columbia, Germany, Norway and the UK step up efforts to reduce deforestation in Colombia, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety of Germany (Berlin) 11 December 2019. Access Date: 5 February 2020. <https://www.bmu.de/en/pressrelease/colombia-germany-norway-and-the-uk-step-up-efforts-to-reduce-deforestation-in-colombia-1/>

On 11 December 2019, Minister Schulze, together with United Nations Development Programme Administrator Achim Steiner and Food and Agriculture Organization Director-General Qu Dongyu, “launched new funding of EUR20 million under the Federal Environment Ministry’s International Climate Initiative for supporting up to 12 developing countries in implementing national climate change targets in the area of land use and agriculture.”³³¹¹ The goal is to promote low-emission agriculture and climate change adaptation.³³¹²

On 18 December 2019, the Climate Action Act initiated by the German government entered into force. The goal is to reduce greenhouse gas emission by 55 per cent by 2030 and achieve greenhouse gas neutrality by 2050.³³¹³

On 20 December 2019, Germany’s parliament approved the government’s package of measures to meet its climate action goals. The measures include carbon price of EUR25 per metric ton, reduced tax on long-distance train travel, tax benefit for energy-saving home renovations and increased commuters’ allowance. These measures seek to cut greenhouse gas emissions.³³¹⁴

On 16 January 2020, the government and Germany’s four coal-producing states announced details on their plan to phase out coal by 2035 and latest by 2038. In this plan, the government will pay energy firms EUR4.35 billion in compensation for the coal phaseout; it will also provide EUR40 billion to aid affected states in transition; it will close down at least 8 coal-fired power plants in 2020. The goal is to cut carbon emission from coal-powered plants.³³¹⁵

On 13 February 2020, the Federal Ministry for Environment, Nature Conservation and Nuclear Safety launched the International Climate Initiative Medium Grants. This program will provide EUR30 million over five years to projects aimed at reducing greenhouse gas emissions and conserving biodiversity. Its goal is to “support North-South cooperation of global climate action and biodiversity conversation in developing countries and emerging economies.”³³¹⁶

On 13 February 2020, Germany, along with Austria, France, Liechtenstein, Luxembourg, the Netherlands, Switzerland, the Belgian Wallonia region and the European Commission adopted the

³³¹⁰ Columbia, Germany, Norway and the UK step up efforts to reduce deforestation in Colombia, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety of Germany (Berlin) 11 December 2019. Access Date: 5 February 2020. <https://www.bmu.de/en/pressrelease/colombia-germany-norway-and-the-uk-step-up-efforts-to-reduce-deforestation-in-colombia-1/>

³³¹¹ BMU promotes climate action in farming, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 11 December 2019. Access Date: 4 April 2020. <https://www.bmu.de/en/pressrelease/bmu-promotes-climate-action-in-farming/>

³³¹² BMU promotes climate action in farming, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 11 December 2019. Access Date: 4 April 2020. <https://www.bmu.de/en/pressrelease/bmu-promotes-climate-action-in-farming/>

³³¹³ Germany’s Climate Action Law, Clean Energy Wire (Berlin) 18 December 2019. Access Date: 7 February 2020. <https://www.cleanenergywire.org/factsheets/germanys-climate-action-law-begins-take-shape>

³³¹⁴ German upper house approves amended climate plans, Deutsche Welle (Bonn) 20 December 2020. Access Date: 22 March 2020. <https://www.dw.com/en/german-upper-house-approves-amended-climate-plans/a-51750251>.

³³¹⁵ Germany to pay energy firms billions in coal phaseout plan, Deutsche Welle (Bonn) 16 January 2020. Access Date: 22 March 2020. <https://www.dw.com/en/germany-to-pay-energy-firms-billions-in-coal-phaseout-plan/a-52022317>

³³¹⁶ Federal Environment Ministry launches new climate action support programme for global North-South Cooperation, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 13 February 2020. Access Date: 22 March 2020. <https://www.bmu.de/en/pressrelease/federal-environment-ministry-launches-new-climate-action-support-programme-for-global-north-south-co/>

Rhine 2040 programme. This collaboration of countries situated along the Rhine river aims at “managing the Rhine and its river basin in a sustainable way and make it climate resilient.”³³¹⁷

Germany has fully complied with its commitment to foster innovation in a wide range of areas for low emissions though its deforestation efforts internationally, its Climate Action Programme 2030, the Climate Act and its International Climate Medium grants. Further, it has strived to foster innovation in a wide range of areas for resilient development through its Capacity Building and Finance for National and Local Action on Climate and Biodiversity initiative, its City Climate Finance Gap Fund and Rhine 2040 programme.

Thus, Germany receives a score of +1.

Analyst: Wai Suet Gi Gi Chan

India: +1

India has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development.

On 14 July 2019 to 15 July 2019, the Ministry of the Environment, Forest, and Climate Change took part in the Partnership Action on Green Economy consultation workshop. The overall themes discussed include the transition into a sustainable, green economy with regard to ecosystem vulnerabilities, consumption, production, financial mechanisms and employment.³³¹⁸

On 2 September 2019 to 13 September 2019, India hosted the United Nations Convention to Combat Desertification, which deliberated issues related to land restoration, drought preparedness, and how to ensure gender balance, youth engagement, and land rights.³³¹⁹

On 25 September 2019, the Ministry of the Environment, Forest and Climate Change launched the project, “Forest Plus 2.0 (Forest for Water and Prosperity)” in the cities of Kerala, Telangana, and Bihar. This is a five-year program in collaboration with the US Agency for International Development to improve the status of the forests in this region.³³²⁰

On 4 October 2019, the US and India launched the Flexible Resource Initiative in New Delhi, under the US-India Clean Energy Finance Task Force. The goal is so “develop strategies to ensure that India’s power systems are flexible enough to integrate renewable energy within the next decade, while still meeting market demands for electricity, in order to achieve its renewable energy vision.”³³²¹

³³¹⁷ Rhine countries adopt programme for sustainable management and climate resilience, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 13 February 2020. Access Date: 22 March 2020. <https://www.bmu.de/en/pressrelease/rhine-countries-adopt-programme-for-sustainable-management-and-climate-resilience/>

³³¹⁸ July Highlights of the Achievements and Activities of the Ministry of Environment, Forest, and Climate Change, Ministry of Environment, Forest, and Climate Change (New Delhi) 08 August 2019. Access Date: 26 March 2020. <http://moef.gov.in/wp-content/uploads/2019/08/july-2019.pdf>

³³¹⁹ September Highlights of the Achievements and Activities of the Ministry of the Environment, Ministry of the Environment, Forest, and Climate Change (New Delhi) 18 October 2019. Access Date: 26 March 2020. <http://moef.gov.in/wp-content/uploads/2017/06/septemper2019.pdf>

³³²⁰ September Highlights of the Achievements and Activities of the Ministry of the Environment, Ministry of the Environment, Forest, and Climate Change (New Delhi) 18 October 2019. Access Date: 26 March 2020. <http://moef.gov.in/wp-content/uploads/2017/06/septemper2019.pdf>

³³²¹ United States and India Launch Flexible Resources Initiative-Growth through Clean Energy, US Department of State (Washington) 4 October 2019. Access Date: 2 February 2020. <https://www.state.gov/united-states-and-india-launch-flexible-resources-initiative-growth-through-clean-energy/>

On 26 October 2019, India attended the 29th BASIC meeting in Beijing, with delegates from China, South Africa and Brazil. In preparation for 25th Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change, they acknowledged climate change and “confirmed their commitments to multilateralism in order to address the issue and to foster climate resilience and promote greenhouse gas emissions reduction.”³³²² They also emphasized their commitment to the implementation of the Paris Agreement and support of other developing countries in doing so as well as they are the most vulnerable to climate change repercussions.³³²³ Additionally, the BASIC group encouraged funding to the Green Climate Fund to support developing countries as they adapt.³³²⁴ The Green Climate Fund sets out to “help developing countries reduce their greenhouse gas emissions and enhance their ability to respond to climate change.”³³²⁵

On 19 November 2019, the Ministry of the Environment, Forest and Climate Change attended the G20’s Climate Sustainability Working Group adaptation program at Bangkok, Thailand.³³²⁶

On 2 December 2019 to 15 December 2019, the Ministry of the Environment, Forest, and Climate Change, along with other federal institutions in the Indian delegation participated in COP25.³³²⁷

On January 2020, India had announced that they have achieved their Stage II objective of the Ministry of the Environment’s HCFC Phase-Out Management Plan, in Article 5 of the Montreal Protocol. This stage stipulates that the country would work towards entirely transitioning away from HCFC 141b in the foam manufacturing sector in order to reduce emissions.³³²⁸

India has fully complied with its commitment to foster innovation in a wide range of areas for low emissions through the Provision of Compensatory Afforestation, the US-India Clean Energy Finance Task Force and commitment to transitioning from HCFC Phase-Out Management Plan. Further, it has strived to foster innovation in a wide range of areas for resilient development through its hosting of the UN Convention on Desertification, its Forest Plus 2.0 (Forest for Water and Prosperity) program, and its participation in the BASIC group and call for funding for the Green Climate Fund.

Thus, India receives a score of +1.

Analyst: Margaret de Leon

³³²² Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020. <https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

³³²³ Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020. <https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

³³²⁴ Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020. <https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

³³²⁵ About GCF, Green Climate Fund (Songdo). Access Date: 3 April 2020. <https://www.greenclimate.fund/about/contact>

³³²⁶ November Highlights of the Achievements and Activities of the Ministry of the Environment, Forest, and Climate Change, Ministry of the Environment, Forest, and Climate Change (New Delhi) 11 December 2019. Access Date: 26 March 2020. <http://moef.gov.in/wp-content/uploads/2017/06/November.pdf>

³³²⁷ December Highlights of the Achievements and Activities of the Ministry of the Environment, Forest, and Climate Change, Ministry of the Environment, Forest, and Climate Change (New Delhi) 8 January 2020. Access Date: 26 March 2020. <http://moef.gov.in/wp-content/uploads/2020/01/December.pdf>

³³²⁸ January Highlights of the Achievements and Activities of the Ministry of the Environment, Forest, and Climate Change, Ministry of the Environment, Forest, and Climate Change (New Delhi) 10 February 2020. Access Date: 26 March 2020. <http://moef.gov.in/wp-content/uploads/2017/06/10-jan.pdf>

Indonesia: 0

Indonesia has partially complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development.

On 16 July 2019, President Joko Widodo urged cities across the country to set up waste-to-energy plants this year to tackle the country's waste problem. The goal is to establish 12 waste-to-energy power plants by 2022 in order to create up to 234 megawatts of electricity using 16,000 tons of waste a day.³³²⁹

On 8 August 2019, President Widodo issued a permanent moratorium on new forest clearance for activities such as palm plantations and logging. The moratorium aims to reduce emissions from fires caused by deforestation.³³³⁰

On 19 August 2019, President Widodo signed a presidential decree covering the regulation of electric vehicles. The goal is to increase demand for electric vehicles through implementing fiscal and tax incentives for the industry.³³³¹

On 9 October 2019, the government launched an agency to manage funds for climate change management. The IDR2 trillion of initial funds is planned to start its operations by 1 January 2020 and aims to restore environmental damage and educate communities to prevent further damage.³³³²

On 23 December 2019, the government launched biodiesel containing 30 per cent palm-based fuel (B30), the highest mandatory mix in the world. The goal is to reduce carbon emissions and the country's reliance on oil imports.³³³³

Indonesia has partially complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development. It has complied with its commitment to foster low emissions through its moratorium on new forest clearing, promotion of electric vehicles and launch of palm-based fuel. Further, it has strived to foster innovation in a wide range of areas for resilient development through the launch of its climate change management agency. However, it falls short of the "wide range" threshold.

Thus, Indonesia has received a score of 0.

Analyst: Dimas Bimo Radhityo

³³²⁹ Indonesian president tells cities to build waste-to-energy plants, Cabinet Secretariat (Jakarta) 16 July 2019. Access Date: 5 February 2020. <https://www.reuters.com/article/us-indonesia-environment-energy/indonesian-president-tells-cities-to-build-waste-to-energy-plants-idUSKCN1UB1CG>

³³³⁰ Indonesia president makes moratorium on forest clearance permanent, Siti Nurbaya Bakar, Minister of Forestry and Environment (Jakarta) 8 August 2019. Access Date: 8 February 2020. <https://www.reuters.com/article/us-indonesia-environment-forest-idUSKCN1UY14P>

³³³¹ Jokowi signs electric vehicle regulation, President Joko Widodo (Jakarta) 9 August 2019. Access Date: 5 February 2020. <https://www.thejakartapost.com/news/2019/08/09/jokowi-signs-electric-vehicle-regulation.html>

³³³² Indonesia launches agency to manage environment funds, Ruandha Agung Sugardiman, director general of climate change at the Forestry and Environment Ministry (Jakarta) 9 October 2019. Access Date: 5 February 2020. <https://www.channelnewsasia.com/news/asia/indonesia-launch-agency-manage-environment-climate-change-funds-11985144>

³³³³ Indonesia launches B30 biodiesel to cut costs, boost palm oil, Ministry of Energy and Mineral Resources (Jakarta) 23 December 2019. Access Date: 8 February 2020. <https://www.reuters.com/article/us-indonesia-biodiesel/indonesia-launches-b30-biodiesel-to-cut-costs-boost-palm-oil-idUSKBN1YROD2>

Italy: +1

Italy has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development.

On 8 July 2019, Minister of the Environment and the Protection of the Territory and the Sea Sergio Costa and Minister of Economic Development Luigi Di Maio signed the FER1 decree, which aims to support the production of energy from renewable sources.³³³⁴ The provision will allow the construction of plants for a total capacity of approximately 8,000 MW, with an increase in production from renewable sources of approximately 12 billion KW and with activated investments estimated to be in the order of EUR10 billion.³³³⁵

On 23 July 2019, the Ministers for European Affairs signed a decree allowing new sanctions on maritime transport. In addition to sanctions, the new provisions include penalties for violating the decree. The aim of this policy is to reduce the level of carbon emissions.³³³⁶

On 1 August 2019, a protocol of understanding was signed by Minister Costa and Rector of Sapienza Eugenio Gaudio. The protocol is aimed at promoting awareness on issues related to “sustainable development and the fair and sustainable well-being.”³³³⁷ This includes energy efficiency, conversion to renewable energies and reduction of environmental impact.³³³⁸

On 10 October 2019, Minister Costa signed the agreement for the protection of the Sarno river, as it is “considered to be one of the most polluted sites in Europe.” The agreement is aimed at protecting the water resource and mitigating the hydrogeological risk.³³³⁹

On 10 October 2019, the Council of Ministers approved the climate decree, inaugurating the Green New Deal. The primary innovations included in the decree are the allocation of EUR255 million for European cities affected by poor air quality, the allocation of EUR30 million for replanting trees, and the allocation of EUR20 million for establishing school transportation to elementary and middle schools. The aim of this decree is to build a solid environmental framework in Italy.³³⁴⁰

³³³⁴ Renewables, Di Maio and Cost Sign the FER1 Decree, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 8 July 2019. Access Date: 1 February 2020. <https://www.minambiente.it/comunicati/rinnovabili-di-maio-e-costa-firmano-il-decreto-fer1>

³³³⁵ Renewables, Di Maio and Cost Sign the FER1 Decree, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 8 July 2019. Access Date: 1 February 2020. <https://www.minambiente.it/comunicati/rinnovabili-di-maio-e-costa-firmano-il-decreto-fer1>

³³³⁶ Climate: Legislative Decree Sanctions on Maritime Transport Emissions Approved, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 23 July 2019. Access Date: 1 February 2020.

³³³⁷ A Green Alliance Between the Ministry of the Environment and La Sapienza for the Objective of the 2013 Agenda, Ministry of the Environment and the Protection of the Territory and the Sea (Rome) 1 August 2019. Access Date: 1 February 2020. <https://www.minambiente.it/comunicati/un-alleanza-verde-tra-ministero-dell-ambiente-e-la-sapienza-gli-obiettivi-dell-agenda-2>

³³³⁸ A Green Alliance Between the Ministry of the Environment and La Sapienza for the Objective of the 2013 Agenda, Ministry of the Environment and the Protection of the Territory and the Sea (Rome) 1 August 2019. Access Date: 1 February 2020. <https://www.minambiente.it/comunicati/un-alleanza-verde-tra-ministero-dell-ambiente-e-la-sapienza-gli-obiettivi-dell-agenda-2>

³³³⁹ Sarno River: Agreement Signed for Operational Collaboration between the District Basin Authority and the Carabinieri Command for Environmental protection, Ministry of the Environment and the Protection of the Territory and the Sea (Rome) 10 October 2019. Access Date: 1 February 2020. <https://www.minambiente.it/comunicati/fiume-sarno-siglato-accordo-di-collaborazione-operativa-tra-autorita-di-bacino>

³³⁴⁰ Climate: The Costa Decree Approved in the CDM, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 10 October 2019. Access Date: 1 February 2020. <https://www.minambiente.it/comunicati/clima-approvato-cdm-il-decreto-costa>

On 22 October 2019, Minister Costa called for the Ligurian and Piedmontese regions to receive EUR10 million and EUR35 million respectively to “open construction sites for the safety of the most vulnerable areas” as part of a broader initiative called the “Cantieri Ambiente” bill which has a total allotment of EUR6.5 billion.³³⁴¹

On 22 November 2019, the Climate Decree was passed and “deemed urgent and necessary.”³³⁴² The Climate Decree aims to reduce emissions and take measures at mitigating climate change. The main points of the decree are as follows: up to EUR225 million will be used to increase environmentally sustainable services in regions with air quality infringement; EUR40 million will go towards modernization of public transport lanes; EUR20 million will be allocated for electric vehicles for elementary and middle schools; EUR30 million will be dedicated to reforestation in urban communities to absorb CO₂; the creation of environmental economic zones; halting environmental infringement in the form of landfills and sewage; implementation of the Green Italy Program where EUR3 million will be used to carry out “innovative and effective green conversion projects” each year from 2020, 2021 and 2022; transparency of environmental data such as air quality; information campaigns will receive EUR2 million to encourage knowledge and green initiatives; EUR2 million for businesses that collect plastic bottles; EUR6 million for green helmet, international collaboration programs aimed at safeguarding national and internationally protected areas; changing the former Interministerial Committee for Economic Planning into the Interministerial Committee for Economic Planning and Sustainable Development to reach wider areas of environmentalism; EUR3 million for reforestation and hydrogeological protection; create an air quality fund; and lastly, inter-ministerial table for climate emergency that would allow for a national program for fighting climate change and enhancing air quality.³³⁴³

On 4 December 2019, the Conference of States approved the Naples Declaration, which commits all 21 states in the Mediterranean basin, together with the European Union, to work together in the coming years on a series of ambitious goals regarding climate change. Among many important points in the Declaration are provisions for the elimination of waste and the protection of biodiversity, and new strategies for combatting climate change regionally.³³⁴⁴

On 12 December 2019, Minister Costa stated it will partner alongside Africa to find “innovative ways of creating resilient environments ... resilience and adaptation, as well as the energy transition towards renewable energy sources.”³³⁴⁵ This will be achieved through the continuation of their

³³⁴¹ Dissesto, Min. Costa: “Protecting the Territory can no Longer be Postponed, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 22 October 2019. Access Date: 3 April 2020. <https://www.minambiente.it/comunicati/dissesto-min-costa-tutelare-il-territorio-non-e-piu-rinviabile>

³³⁴² Climate Decree, An Important First Step in Tackling Climate Change, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 22 November 2019, Access Date: 3 April 2020. <https://www.minambiente.it/comunicati/decreto-clima-un-primo-importante-passo-contrastare-i-cambiamenti-climatici>

³³⁴³ Climate Decree, An Important First Step in Tackling Climate Change, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 22 November 2019, Access Date: 3 April 2020. <https://www.minambiente.it/comunicati/decreto-clima-un-primo-importante-passo-contrastare-i-cambiamenti-climatici>

³³⁴⁴ COP21 MED, the Naples Declaration Approved, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 4 December 2019. Access Date: 3 February 2020. <https://www.minambiente.it/comunicati/cop-21-med-approvata-la-dichiarazione-di-napoli>

³³⁴⁵ COP25: Costa, Alongside Africa, Alongside the Planet, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 2 December 2019. Access Date: 3 April 2020. <https://www.minambiente.it/comunicati/cop25-costa-al-fianco-dell-africa-al-fianco-del-pianeta>

projects in 18 African countries, with a focus on agriculture, sustainable water management, use of renewables, environmental technology and capacity building.³³⁴⁶

On 2 January 2020, the Ministry of the Environment announce it will allocate EUR2 million for four marine protected areas in Capri, Capo Spartivento and Isola San Pietro in Sardinia and the coast of Maratea in Basilicata.³³⁴⁷ The purpose of this is to create eco-sustainable development.³³⁴⁸

On 4 February 2020, the Ministry of the Environment registered a decree with the Court of Auditors which establishes a financing program aimed at improving air quality and providing anti-smog interventions. The decree allocates EUR180 million.³³⁴⁹

On 7 February 2020, the Ministry of the Environment announced 62 ongoing projects that aim to improve energy efficiency and reduce carbon emissions. The projects are funded EUR89 million coming from the Development and Cohesion Fund.³³⁵⁰

On 17 February 2020, the Ministry of Environment announced interventions for 81 municipalities to implement sustainable methods of transportation, including the use of bicycles and carpooling. The interventions are financed by the Ministry of Environment and local authorities and aim at “reduc[ing] greenhouse gas emissions responsible for climate change.”³³⁵¹

Italy has fully complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development through its Climate Decree, reduction of marine transport emissions and air pollution, and the Development and Cohesion Fund’s carbon dioxide reduction projects. Further it has strived to foster innovation in a wide range of areas for resilient development through its hydrogeological risk mitigation efforts, the Cantiere Ambiente program, and initiatives with Africa.

Thus, Italy receives a score of +1.

Analyst: Jenna Im

³³⁴⁶ COP25: Costa, Alongside Africa, Alongside the Planet, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 2 December 2019. Access Date: 3 April 2020. <https://www.minambiente.it/comunicati/cop25-costa-al-fianco-dell-africa-al-fianco-del-pianeta>

³³⁴⁷ Environment: Costa, 2 Million Euros for the New Four Marine Protected Areas, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 2 January 2020. Access Date: 3 April 2020.

<https://www.minambiente.it/comunicati/ambiente-costa-2-milioni-di-euro-le-nuove-quattro-aree-marine-protette>

³³⁴⁸ Environment: Costa, 2 Million Euros for the New Four Marine Protected Areas, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 2 January 2020. Access Date: 3 April 2020.

<https://www.minambiente.it/comunicati/ambiente-costa-2-milioni-di-euro-le-nuove-quattro-aree-marine-protette>

³³⁴⁹ Smog, 180 Million from the Ministry of the Environment to the Regions of the Padano Basin, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 4 February 2020. Access Date: 10 February 2020. <https://www.minambiente.it/comunicati/smog-dal-ministero-ambiente-assegnati-180-milioni-alle-regioni-del-bacino-padano>

³³⁵⁰ Environment, 62 Energy Efficient Projects are Underway for an Investment of 89 Million Euros, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 7 February 2020. Access Date: 20 March 2020. <https://www.minambiente.it/comunicati/ambiente-al-62-progetti-l-efficienza-energetica-un-investimento-di-89-milioni-di-euro>

³³⁵¹ Sustainable Home-School Home-Work Mobility, 164 Million for 81 Municipalities, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 17 February 2020. Access Date: 20 March 2020. <https://www.minambiente.it/comunicati/mobilita-sostenibile-casa-scuola-casa-lavoro-164-milioni-81-comuni>

Japan: 0

Japan has partially complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development.

On 12 September 2019, Minister of Environment Shinjiro Koizumi called for the country's nuclear reactors to be scrapped. The goal is to prevent repeats of nuclear disasters and help reduce its carbon emissions.³³⁵²

On 25 September 2019, Minister of Economy, Trade and Industry Isshu Sugawara announced that it has received support from 30 countries for a plan to set up 10,000 hydrogen refueling stations worldwide within 10 years. The goal is to push for the country's target in being carbon-neutral soon after 2050.³³⁵³

On 27 September 2019, the government, together with the government of Argentina, signed a memorandum of cooperation to boost the development of hydrogen as a pollution-free energy source during the Second Hydrogen Energy Ministerial Meeting. The meeting seeks to strengthen collaboration in promoting hydrogen as an alternative energy source, and the memorandum will promote investments in the sustainable energy field.³³⁵⁴

On 18 March 2020, Australia communicated the take-off of its Hydrogen Energy Supply Chain Project with Japan. The project has been devised in order to provide a secure and clean source of energy by improving systems that convert synthetic gas, in the form of carbon monoxide, into hydrogen.³³⁵⁵ Although still in its initial stages, the project has already presented over AUS70 million in public funding towards its aim to establish renewable hydrogen into a residential gas grid.³³⁵⁶

Japan has partially complied with its commitment to foster innovation in a wide range of areas for low emissions by moving away from nuclear energy, exploring hydrogen as an alternative and for its participation in the Hydrogen Energy Supply Chain Project. However, it has not taken measures to foster resilient development.

Thus, Japan has received a score of 0.

Analyst: Dimas Bimo Radbityo

³³⁵² Japan should scrap nuclear reactors after Fukushima, says new environment minister, Shinjiro Koizumi, Minister of environment (Tokyo) 12 September 2019. Access Date: 8 February 2019. <https://www.theguardian.com/world/2019/sep/12/japan-should-scrap-nuclear-reactors-after-fukushima-says-new-environment-minister>

³³⁵³ Japan draws support for global hydrogen proposals, including refueling stations, Isshu Sugawara, Minister of economy, trade and industry (Tokyo) 25 September 2019. Access Date: 9 February 2019. <https://www.reuters.com/article/us-japan-hydrogen/japan-draws-support-for-global-hydrogen-proposals-including-refueling-stations-idUSKBN1WA19R>

³³⁵⁴ Argentina and Japan to work together in development of hydrogen as clean fuel, Ministry of Foreign Affairs, International Trade and Worship (Buenos Aires) 27 September 2019. Access Date: 8 February 2020. <https://www.cancilleria.gob.ar/en/announcements/news/argentina-and-japan-work-together-development-hydrogen-clean-fuel>

³³⁵⁵ Hydrogen Energy Supply Chain Pilot Project, Department of Industry, Science, Energy, and Resources (Canberra) 25 November 2019. Access Date: 8 February 2020. <https://www.industry.gov.au/funding-and-incentives/hydrogen-energy-supply-chain-pilot-project>

³³⁵⁶ Australia's renewable hydrogen industry prepares for take off, ArenaWire (Canberra) 18 March 2020. Access Date: 23 March 2020. <https://arena.gov.au/blog/australias-renewable-hydrogen-industry-prepares-for-take-off/>

Korea: +1

Korea has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development.

On 3 September 2019, the government decided to provide USD100,000 in humanitarian aid to Bolivia, which is severely affected by wildfires. The fund will be used for initial response, such as fire extinguishing.³³⁵⁷

On 6 September 2019, the government decided to provide USD200,000 in humanitarian assistance to the Bahamas, which was severely damaged by the Hurricane Dorian. The aid aims to contribute to the recovery of the Bahamas and the stabilization of their lives.³³⁵⁸

On 16 September 2019, the Korea Water Resources Corporation provided international training for flood prediction for Indonesia's Chitarum River flood. It contains the training about water environment characteristics of the Chitarum River area, water management policies and systems, management of water in response to climate change.³³⁵⁹ The corporation aims to actively promote water-related international training so that it can contribute to solving global water problems and developing water management capabilities.³³⁶⁰

On 27 September 2019, the government decided to provide USD500,000 in additional humanitarian assistance to Mozambique, which was severely damaged by cyclones in March and April. The aid will include a variety of activities such as rehabilitation and recovery of livelihoods.³³⁶¹

On 15 October 2019, the Korea Water Resources Corporation, under the Ministry of Environment, launched a program to strengthen the water resources development and management capacity for 15 officials from eight Southeast Asian countries. As the risk of water, disasters are increasing especially

³³⁵⁷ US \$ 100,000 Humanitarian Assistance to Support Bolivian Wildfires, Ministry of Foreign Affairs (Seoul) 3 September 2019. Access Date: 8 February 2020.

http://www.mofa.go.kr/www/brd/m_4080/view.do?seq=369505&srchFr=&srchTo=&srchWord=&srchTp=&multi_itm_seq=0&itm_seq_1=0&itm_seq_2=0&company_cd=&company_nm=&page=51

³³⁵⁸ The Korean Government Declares US \$ 200,000 Humanitarian Assistance in Hurricane Damaged Bahamas, Ministry of Foreign Affairs (Seoul) 6 September 2019. Access Date: 8 February 2020.

http://www.mofa.go.kr/www/brd/m_4080/view.do?seq=369513&srchFr=&srchTo=&srchWord=&srchTp=&multi_itm_seq=0&itm_seq_1=0&itm_seq_2=0&company_cd=&company_nm=&page=50

³³⁵⁹ Transfer of Korean Water disaster response technology to Indonesia, Ministry of Foreign Affairs (Seoul) 16 September 2019. Access Date: 8 February 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=530&maxPageItems=10&maxIndexPages=10&searchKey=title&searchValue=&menuId=286&orgCd=&condition.fromDate=2019-06-29&condition.toDate=2020-02-11&boardId=1037280&boardMasterId=1&boardCategoryId=&decorator=>

³³⁶⁰ Transfer of Korean Water disaster response technology to Indonesia, Ministry of Foreign Affairs (Seoul) 16 September 2019. Access Date: 8 February 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=530&maxPageItems=10&maxIndexPages=10&searchKey=title&searchValue=&menuId=286&orgCd=&condition.fromDate=2019-06-29&condition.toDate=2020-02-11&boardId=1037280&boardMasterId=1&boardCategoryId=&decorator=>

³³⁶¹ The Korean Government Declares US \$ 500,000 Additional Humanitarian Assistance to Cyclone Damage, Ministry of Foreign Affairs (Seoul) 27 September 2019. Access Date: 8 February 2020.

http://www.mofa.go.kr/www/brd/m_4080/view.do?seq=369579&srchFr=&srchTo=&srchWord=&srchTp=&multi_itm_seq=0&itm_seq_1=0&itm_seq_2=0&company_cd=&company_nm=&page=43

in the Southeast Asia region, and the program aims to contribute to improvements in overall water management in those countries.³³⁶²

On 23 October 2019, the National Institute of Environmental Research of the Ministry of Environment obtained an international patent registration certificate from the US and Swiss patent authorities for the technology. The technology automatically analyzes and trace organic pollutants in flowing water in real-time. This technology can be used in conjunction with a chemical injection system for effective pollutant treatment and cost reduction in water treatment plants.³³⁶³

On 6 November 2019, the Ministry of Environment noticed that it would designate areas with high air pollution or pollutants as air management zones to implement dust management that suits each zone. It intends to manage pollutants from cars and living and based on the details from areas, and it aims to reduce pollutant emissions up to 40 per cent by 2024.³³⁶⁴

On 12 November 2019, the government decided to provide USD100,000 humanitarian assistance to the Central African Republic. The region has been affected by massive flooding since October, and the flood is estimated to have affected 1 million people.³³⁶⁵

On 29 November 2019, the Ministry of Environment implemented the Chemical Emission Reduction System, which will require companies to submit the emission reduction plans every five years. It aims to lead companies to reduce their hazardous chemicals voluntarily.³³⁶⁶

On 27 January 2020, the government decided to provide USD1 million humanitarian assistance through the Australian Red Cross to comfort Australian people. It will be used for early restoration

³³⁶² Government officials in eight Southeast Asian countries receive water management training in Korea, Ministry of Environment (Seoul) 14 October 2019. Access Date: 8 February 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=450&maxPageItems=10&maxIndexPages=10&searchKey=title&searchValue=&menuId=286&orgCd=&condition.fromDate=2019-06-29&condition.toDate=2020-02-11&boardId=1064480&boardMasterId=1&boardCategoryId=&decorator=>

³³⁶³ Automatic analysis of water pollutants, internationally recognized, Ministry of Environment (Seoul) 30 October 2019. Access Date: 8 February 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=370&maxPageItems=10&maxIndexPages=10&searchKey=title&searchValue=&menuId=286&orgCd=&condition.fromDate=2019-06-29&condition.toDate=2020-02-11&boardId=1070150&boardMasterId=1&boardCategoryId=&decorator=>

³³⁶⁴ Expanding the atmospheric management area nationwide and reducing fine dust with customized management, Ministry of Environment (Seoul) 6 November 2019. Access Date: 8 February 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=330&maxPageItems=10&maxIndexPages=10&searchKey=title&searchValue=&menuId=286&orgCd=&condition.fromDate=2019-06-29&condition.toDate=2020-02-11&boardId=1082980&boardMasterId=1&boardCategoryId=&decorator=>

³³⁶⁵ The Korean Government Makes US \$ 100,000 Humanitarian Assistance to Support Flood Damage in Central African Republic, Ministry of Foreign Affairs (Seoul) 12 November 2019. Access Date: 8 February 2020.

http://www.mofa.go.kr/www/brd/m_4080/view.do?seq=369742&srchFr=&srchTo=&srchWord=&srchTp=&multi_itm_seq=0&itm_seq_1=0&itm_seq_2=0&company_cd=&company_nm=&page=26

³³⁶⁶ Full-fledged voluntary reduction efforts for chemical emissions, Ministry of Environment (Seoul) 28 November 2019. Access Date: 8 February 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=230&maxPageItems=10&maxIndexPages=10&searchKey=title&searchValue=&menuId=286&orgCd=&condition.fromDate=2019-06-29&condition.toDate=2020-02-11&boardId=1097940&boardMasterId=1&boardCategoryId=&decorator=>

assistance. The government expects that such a measure could strengthen cooperation between the Australian Government.³³⁶⁷

On 29 January 2020, the Ministry of Environment promulgated amendments to the Green Product Purchasing Act. Green products are the products that minimize the use of energy and resources, and the greenhouse gas generation. Under the amendment, “low carbon certified products” are also included in green products. It aims to contribute to the reduction of greenhouse gases by promoting the purchase of green products.³³⁶⁸

On 16 February 2020, the Korea Environment Corporation, affiliated institution of the Ministry of Environment, led social contribution activities by donating employees’ clothes and old uniforms overseas in order to promote resource circulation through sharing. Both institutions gathered total 5,662 items and they will be sent to the donating institution “Ot-Can” and it will send it to various nations based on the climate and age. The intention is to reuse clothes and thereby reduce carbon emissions involved in the production of articles of clothing.³³⁶⁹

Korea has fully complied with its commitment to foster innovation in a wide range of areas for low emissions through its Chemical Emissions Reductions System, its amendments to the Green Product Purchasing Act to include low-carbon certified products and lastly, its aims to reduce emissions by up to 40 per cent in high air polluted regions. Further, it has strived to foster innovation in a wide range of areas for resilient development through the Korean Water Resources Corporation’s flood prediction training, and its strengthening of water resource development and restoration and humanitarian efforts in various countries.

Thus, Korea receives a score of +1.

Analyst: Eunbi Lee

Mexico: 0

Mexico has partially complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development

On 14 June 2019, Mexico’s Energy Ministry launched the National Electricity System Development Plan, declaring the installation of 18,880 MW by the Federal Electricity Commission between 2019 and 2025. The goal is to add an expected MV 29,000 over the next 15 years, generated by combined cycle plans that burn natural gas and reuse the steam generated to produce electricity.³³⁷⁰

³³⁶⁷ Dispatch government delegation to discuss humanitarian assistance and early recovery measures for Australia, which was heavily damaged by forest fires, Ministry of Foreign Affairs (Seoul) 28 January 2020. Access Date: 8 February 2020.

http://www.mofa.go.kr/www/brd/m_4080/view.do?seq=369963&srchFr=&srchTo=&srchWord=&srchTp=&multi_itm_seq=0&itm_seq_1=0&itm_seq_2=0&company_cd=&company_nm=&page=3

³³⁶⁸ Green Products Include Low Carbon Products...Expected to be activated by obligatory purchasing, Ministry of Environment (Seoul) 28 January 2020. Access Date: 8 February 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=30&maxPageItems=10&maxIndexPages=10&searchKey=title&searchValue=&menuId=286&orgCd=&condition.fromDate=2019-06-29&condition.toDate=2020-02-11&boardId=1221920&boardMasterId=1&boardCategoryId=&decorator=>

³³⁶⁹ Virtuous cycle of resources through sharing, donating clothing to developing countries, Ministry of Environment (Seoul) 16 February 2020. Access Date: 21 March 21, 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=80&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=286&orgCd=&boardId=1310900&boardMasterId=1&boardCategoryId=&decorator=>

³³⁷⁰ AMLO’s return to oil, Dialogo Chino (Mexico). 11 July 2019. Access Date: 9 February 2020. <https://dialogochino.net/28818-amlos-return-to-oil/>

On 23 September 2019, President Lopez Obrador announced plans for government investment in oil refineries, noting that the government already invested 12 billion pesos toward revamping oil production. The goal is to “wean” Mexico off its dependency on foreign energy supplies, as well as fuel economic development through increased oil production.³³⁷¹

On 28 October 2019, Mexico’s government announced it would expand the rules of its “clean energy certificates” (CEL) program to make them available to older hydroelectric plants operated by state utility company CFE. Previously applying only to new projects, the goal is to sell CEL-certified energy to big companies that are required to obtain a percentage of their electricity from clean sources.³³⁷²

On 18 November 2019, the government changed rules for clean energy credits, allowing aging hydroelectric dams operated by Mexico’s state-owned utility to qualify. Initially intended for new wind and solar farms, the goal is to “set a level playing field by including hydroelectric power.”³³⁷³

On 10 December 2019, the government published a report that quantifies co-benefits from implementing the climate agenda in coordination with the sustainable development agenda in the country. Titled Crunching Numbers: Quantifying the Sustainable Development Co-benefits of Mexico’s Climate Commitments, the report argues that climate action and development policies should be harmonized and integrated because they “reinforce each other and achieve more together.”³³⁷⁴

On 19 December 2019, Jalisco Governor Alfaro rejected private and federal government plans to build power plants that would run on non-renewable energy sources. In rejecting construction of a USD759 million thermal power station by the Spanish firm Fistera, the goal is to uphold his government’s commitment to “tackle climate change.”³³⁷⁵

On 22 December 2019, the Federal Electricity Commission proposed to cancel some contracts and eliminate discounts on transmission costs for power generators to use its network. The goal is to increase transmission costs for private companies, cut subsidies, and give the CFE preference over private generation when electricity is dispatched into the national grid.^{3376,3377}

³³⁷¹ Amid Climate Worries, Mexico Doubles Down on Fossil Fuels, Reuters (Mexico City). 1 November 2019. Access Date: 9 February 2020. <https://www.reuters.com/article/us-mexico-climate-change-oil-feature-trf/amid-climate-worries-mexico-doubles-down-on-fossil-fuels-idUSKBN1XB4UR>

³³⁷² Amid Climate Worries, Mexico Doubles Down on Fossil Fuels, Reuters (Mexico City). 1 November 2019. Access Date: 9 February 2020. <https://www.reuters.com/article/us-mexico-climate-change-oil-feature-trf/amid-climate-worries-mexico-doubles-down-on-fossil-fuels-idUSKBN1XB4UR>

³³⁷³ Mexico’s curious clean-energy credit use deters renewable energy development, Bloomberg (Mexico City) 18 November 2019. Access Date: 9 February 2020. <https://www.worldoil.com/news/2019/11/18/mexico-s-curious-clean-energy-credit-use-deters-renewable-energy-development>

³³⁷⁴ Development Co-benefits of Climate Action, SDG Knowledge Hub. 10 December 2019. Access Date: 9 February 2020. <https://sdg.iisd.org/news/mexico-quantifies-development-co-benefits-of-climate-action/>

³³⁷⁵ State, municipality say no to electrical generation plants running on fossil fuels, Mexico News Daily (Mexico City) 19 December 2019. Date Accessed: 9 February 2020. <https://mexiconewsdaily.com/news/state-municipality-say-no-to-electrical-generation-plants/?fbclid=IwAR1FzoJJZJqfMoWZuskYmY7GIyinGECfa1JZwwTcgPRxRpaBBf17eSz2uDE>

³³⁷⁶ Latin America’s new leftists are choosing oil despite renewables boom, Quartz. 5 February 2019. Access Date: 9 February 2020. <https://qz.com/1793342/latin-americas-new-leftist-leaders-backtrack-on-the-environment/>

³³⁷⁷ Mexico Quantifies Mexico’s Renewable Power Suppliers Face Risks Under Grid Proposal, Bloomberg (Mexico City) 22 December 2019. Access Date: 9 February 2020. <https://www.bloomberg.com/news/articles/2019-12-22/mexico-s-cfe-mulls-cutting-discounts-in-blow-to-renewable-sector>

On 1 January 2020 Mexico reformed the General Law on Climate Change to establish an emission trading system, a cap-and-trade scheme, pilot program for low-carbon development.³³⁷⁸

On 4 February 2020, Mexico City's solar initiative "Ciudad Solar" generated around 140,000 kWh of clean power while avoiding the emission of 75 tonnes of CO₂. The goal is to support the installation of rooftop PV and other clean power schemes that will add up to MV 350 of green capacity in the 2019 to 2024 period.³³⁷⁹

Mexico has partially complied with its commitment to foster innovation in a wide range of areas for low emissions through its National Electricity System Development Plan, and by investing in the Ciudad Solar initiative and thermal power stations. However, Mexico has not taken measures to foster resilient development.

Thus, Mexico receives a score of 0.

Analyst: Burhan Anees Khan

Russia: 0

Russia has partially complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development.

On 17 July 2019, the Ministry of Natural Resources excluded the protection zone of Medusa Bay cluster from the borders of the Great Arctic Reserve to allow the Arctic Mining Company under Vostok Coal to proceed with coal-mining plans in the conservation zone. The goal is to increase shipments through the Northern Sea Route.³³⁸⁰

On 26 August 2019, President Vladimir Putin announced a series of new coal projects including extraction plans in Taymyr Peninsula of more than 25 million tons of coal per year. The goal is to reach shipping target on the Arctic route for 80 million tons per year by 2024.³³⁸¹

On 20 September 2019, the Federal Service for Supervision of Natural Resources signed a Cooperation Agreement with the electric power distribution company PJSC "Quadra — Power Generation" aimed at "implementing a comprehensive plan of measures to reduce emissions into the air in Lipetsk."³³⁸² The goal is to fulfill the objective of "Clean Air" under the Russia's decree "On

³³⁷⁸ Programa de Prueba del Sistema de Comercio de Emisiones, Ministry of Environment and Natural Resources, 1 January 2020. Access Date: 25 September 2020. <https://www.gob.mx/semarnat/acciones-y-programas/programa-de-prueba-del-sistema-de-comercio-de-emisiones-179414>.

³³⁷⁹ Mexico City kicks off Ciudad Solar programme with first PV arrays, RenewablesNow (Mexico City) 4 February 2020. Access Date: 9 February 2020. <https://renewablesnow.com/news/mexico-city-kicks-off-ciudad-solar-programme-with-first-pv-arrays-685973/>

³³⁸⁰ The Ministry of Natural Resources has changed the boundaries of the Arctic reserve for Bosov's company, RBC Daily (Moscow), 18 July 2019. Access Date: 8 February 2020. <https://www.rbc.ru/business/19/07/2019/5d31b3ff9a7947f447681277>

³³⁸¹ Russia Announces Plans for Coal-Digging Surge, The Moscow Times (Moscow) 26 August 2019. Access Date: 22 March 2020. <https://www.themoscowtimes.com/2019/08/26/russia-announces-plans-for-coal-digging-surge-a67011>

³³⁸² National project "Ecology" in the regions: Rosprirodnadzor and PJSC "Quadra — Power Generation" agreed to jointly implement a program to improve the environmental situation in Lipetsk, Ministry of Natural Resources of Russia (Moscow) 20 September 2019. Access Date: 22 March 2020. http://www.mnr.gov.ru/press/news/natsproekt_ekologiya_v_regionakh_rosprirrodnadzor_i_pao_kvadra_dogovorilis_o_sovmestnoy_realizatsii_p/

national goals and strategic objectives of the development of the Russian Federation for the period until 2024.”³³⁸³

On 21 September 2019, Prime Minister Dmitry Medvedev signed a government resolution signifying the Russian government’s official acceptance of the 2015 Paris Agreement to fight climate change. This accord stated that Russia will not technically ratify the accord but will honour its commitments. The Paris Agreement aims to contain greenhouse gas emission in Russia.³³⁸⁴

On 24 September 2019, the Murmansk windmill project awarded by the Russian government with a total cost frame of USD300 million commenced construction. This project will build 57 wind turbines and is projected to operate by 2021. This project contributes to Russia’s goal of producing 4.5 per cent of electricity from renewable sources by 2020.³³⁸⁵

On 18 October 2019, the Ministry of Economy submitted the final version of the draft law “On state regulation of greenhouse gas emissions” to the government.³³⁸⁶ This bill abandoned the plan of implementing carbon emission quota, penalties for Russia’s largest polluters, a national carbon trading system and a national fund to support emission reduction. The bill retains a five-year monitoring program to measure company-level emissions. The deleted clauses were originally intended to cut carbon emissions.³³⁸⁷

On 26 November 2019, Minister of Natural Resources of Russia Dmitry Kobylkin approved guidelines for “determining the background level of air pollution.”³³⁸⁸ The background level of air pollution will be used to “determine the standard for permissible emissions of pollutants.”³³⁸⁹

On 28 November 2019, the Finance Ministry’s 2020 draft budget refused funding to natural gas company Novatek’s proposed projects including building a liquified natural gas terminal in Gydan and reloading terminals in Murmansk and Kamchatka.³³⁹⁰

³³⁸³ National project “Ecology” in the regions: Rosprirodnadzor and PJSC “Quadra — Power Generation” agreed to jointly implement a program to improve the environmental situation in Lipetsk, Ministry of Natural Resources of Russia (Moscow) 20 September 2019. Access Date: 22 March 2020.

http://www.mnr.gov.ru/press/news/natsproekt_ekologiya_v_regionakh_roprirodnadzor_i_pao_kvadra_dogovorilis_o_sovmestnoy_realizatsii_p/

³³⁸⁴ Russia Gives Definitive Approval to Paris Climate Accord, The Moscow Times (Moscow) 23 September 2019. Access Date: 7 February 2020. <https://www.themoscowtimes.com/2019/09/23/russia-gives-definitive-approval-to-paris-climate-accord-a67394>

³³⁸⁵ Murmansk Launches Construction of Russia’s Largest Wind Power Park, The Moscow Times (Moscow) 24 September 2019. Access Date: 9 February 2020. <https://www.themoscowtimes.com/2019/09/24/murmansk-launches-construction-of-russias-largest-wind-power-park-a67406>

³³⁸⁶ Carbon taxes go to emissions — Russia intends to fight global warming on a voluntary basis, Kommersant business daily (Moscow) 17 October 2019. Access Date: 7 February 2020. <https://www.kommersant.ru/doc/4127113>

³³⁸⁷ Russia Rejects Climate Change Plan After Business Uproar, The Moscow Times (Moscow) 17 October 2019. Access Date: 7 February 2020. <https://www.themoscowtimes.com/2019/10/17/russia-rejects-climate-change-plan-after-business-uproar-a67780>

³³⁸⁸ Approved guidelines for determining the background level of air pollution, Ministry of Natural Resources of Russia (Moscow) 26 November 2019. Access date: 22 March 2020. http://www.mnr.gov.ru/press/news/utverzhdenny_metodicheskie_ukazaniya_po_opredeleniyu_fonovogo_urovnya_zag_ryazneniya_atmosfernogo_vozd/

³³⁸⁹ Approved guidelines for determining the background level of air pollution, Ministry of Natural Resources of Russia (Moscow) 26 November 2019. Access date: 22 March 2020. http://www.mnr.gov.ru/press/news/utverzhdenny_metodicheskie_ukazaniya_po_opredeleniyu_fonovogo_urovnya_zag_ryazneniya_atmosfernogo_vozd/

³³⁹⁰ Russia Refuses State Funding for New Arctic Gas Projects, The Moscow Times (Moscow) 28 November 2019. Access Date: 8 February 2020. <https://www.themoscowtimes.com/2019/11/28/russia-refuses-state-funding-arctic-gas-a68362>

On 6 December 2019, the government agreed with the Organization of Petroleum Exporting Countries on a new deal to stabilize oil prices. Under this deal, Russia would cut 70,000 barrels per day of oil export. A concession was made that gas condensate, which constituted 8 per cent of Russia's quota will not be counted. The production cuts aim to support oil prices amidst falling demand.³³⁹¹

On 19 December 2019, the Russian state company Rosatom announced that Russia's 11th nuclear power plant Akademik Lomonosov has begun supplying electricity to the town of Pevek. The new nuclear powerplant will serve to replace a coal-fired plant and an aging nuclear plant in the Chukotka autonomous district.³³⁹²

On 4 January 2020, Russia published the National Action Plan for the First Phase of Adaptation to Climate Change for the Period up to 2022.³³⁹³ The national plan listed 30 economic and social measures including “upgrading the national climate monitoring system, calculating the risks of Russian products becoming unable to compete if they fail to meet new climate-related standards, new education materials to teach climate change in schools, dam building, shifting to drought-resistant crops and crisis-preparation such as offering emergency vaccinations or evacuations in case of a disaster.”³³⁹⁴ The goal is to “minimize the vulnerability of the Russia's population, economy and natural resources to climate change.”³³⁹⁵

On 20 January 2020, the Institute of Arctic Technologies of the Moscow Institute of Physics and Technology, with support from the Education and Science Ministry, Foreign Affairs Ministry, Ministry of the Far East and Arctic and the Yamal-Nenets district governor, proposed building an international climate research station in the Yamal-Nenets region of Siberia.³³⁹⁶ This project is supported by the Arctic council and is expected to be completed by 2022. The goal is to support “joint research on climate change, ecology and environmental pollution.”³³⁹⁷

On 18 March 2020, the Federal Agency for Forestry “instructed regional ministry of natural resources of the Krasnodar Territory to strengthen campaigning aimed at preventing the burning of dry grass and compliance with fire safety rules in the forest.” The goal is to prevent forest fire in the Krasnodar Territory.³³⁹⁸

³³⁹¹ Russia Wins Oil Concessions at Key OPEC+ Meeting, The Moscow Times (Moscow) 6 December 2019. Access Date: 9 February 2020. <https://www.themoscowtimes.com/2019/12/06/russia-wins-oil-concessions-at-key-opec-meeting-a68501>

³³⁹² World's First Floating Nuclear Plant Goes Online in Russia — Rosatom, The Moscow Times (Moscow) 19 December 2019. Access Date: 22 March 2020. <https://www.themoscowtimes.com/2019/12/19/worlds-first-floating-nuclear-plant-goes-online-in-russia-rosatom-a68683>

³³⁹³ The Russian government takes a major step to join the world community in recognizing the threat of climate change. High North News (Bodo) 8 January 2020. Access Date: 22 March 2020. <https://www.highnorthnews.com/en/russia-unveils-climate-change-adaptation-plan>

³³⁹⁴ Russia unveils plan to 'use the advantages' of climate change, Deutsche Welle (Berlin) 6 January 2020. Access Date: 7 February 2020. <https://www.dw.com/en/russia-unveils-plan-to-use-the-advantages-of-climate-change/a-51894830>

³³⁹⁵ Russia unveils plan to 'use the advantages' of climate change, Deutsche Welle (Berlin) 6 January 2020. Access Date: 7 February 2020. <https://www.dw.com/en/russia-unveils-plan-to-use-the-advantages-of-climate-change/a-51894830>

³³⁹⁶ Press conference “Arctic station on carbonless energy: a new international project”, Institute of Arctic Technologies MIPT (Moscow) 20 January 2020. Access Date: 8 February 8, 2020. <http://arctic-mipt.com/>

³³⁹⁷ Russia Steps into Oil-Free Future With New Arctic Research Station, The Moscow Times (Moscow) 31 January 2020. Access Date: 8 February 2020. <https://www.themoscowtimes.com/2020/01/31/station-arctic-without-oil-a69105>

³³⁹⁸ Forest departments of Trans-Baikal Territory, Jewish Autonomous Okrug and Krasnodar Territory are instructed to strengthen measures to control the forest fire situation, Ministry of Natural Resources of Russia (Moscow) 18 March 2020. Access Date: 22 March 2020.

On 18 March 2020, Minister of Natural Resources and Ecology of the Russian Federation Dmitry Kobylkin and Governor of the Amur Region Vasily Orlov identified three priority projects “for bank protection in order to protect the population from flood waters” in the Amur Region.³³⁹⁹

On 19 March 2020, the Federal Service for Hydrometeorology and Environmental Monitoring introduced “continuous operation of local warning systems for emergency situations at hydraulic structures,” “round-the-clock monitoring of water management situation” and “information exchange with other operational services regarding water management situation.”³⁴⁰⁰ The goal is to “regularly analyze the changes in the water management situation in the Russian Federation and organize preparations for the safe passage of floods in 2020.”³⁴⁰¹

Russia has partially complied with its commitment to strive to foster innovation in a wide range of areas for low emissions. While it has officially accepted the 2015 Paris Agreement, it has also abandoned carbon emissions quotas, penalties for Russia’s largest polluters and begun new coal-mining plans in conservation zones. However, it has fostered resilient development through its upgrades on the national climate monitoring system under the National Action Plan for the First Phase of Adaptation to Climate Change, flood prevention projects and warning systems.

Thus, Russia receives a score of 0.

Analyst: Wai Suet Gi Gi Chan

Saudi Arabia: 0

Saudi Arabia has partially complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development.

On 1 July 2019, Crown Prince Mohammed bin Salman stated that Saudi Arabia is “working to develop a comprehensive and integrated energy-saving system through energy efficient programs.”³⁴⁰² To support this development, Saudi Arabia will work to ensure the safety and security of energy supplies.³⁴⁰³

On 8 August 2019 it was reported that Saudi Arabia’s Dumat Al Jandal 400 megawatt wind farm project achieved a low levelized cost of energy for onshore wind power at 1.99 cents per kilowatt

³³⁹⁹ The Ministry of Natural Resources of Russia discussed measures to prevent flood situations in the Amur Region in 2020, Ministry of Natural Resources of Russia (Moscow) 18 March 2020. Access Date: 22 March 2020. http://www.mnr.gov.ru/press/news/v_minprirody_rossii_obsudili_mery_preduprezhdeniya_pavodkovykh_situatsiy_na_territorii_amurskoy_obla/

³⁴⁰⁰ On measures to ensure safe passage in 2020 in the territory of the Russian Federation and floods, Ministry of Natural Resources of Russia (Moscow) 19 March 2020. Access Date: 22 March 2020. http://www.mnr.gov.ru/press/news/o_merakh_po_obespecheniyu_bezopasnogo_propuska_v_2020_godu_na_territorii_rf_polovodya_i_pavodkov/

³⁴⁰¹ On measures to ensure safe passage in 2020 in the territory of the Russian Federation and floods, Ministry of Natural Resources of Russia (Moscow) 19 March 2020. Access Date: 22 March 2020. http://www.mnr.gov.ru/press/news/o_merakh_po_obespecheniyu_bezopasnogo_propuska_v_2020_godu_na_territorii_rf_polovodya_i_pavodkov/

³⁴⁰² Saudi Arabia committed to tackling climate change, says Crown Prince, Arab News (Riyadh). 1 July 2019. Access Date: 9 February 2020. <https://www.arabnews.com/node/1518106/saudi-arabia>

³⁴⁰³ Saudi Arabia committed to tackling climate change, says Crown Prince, Arab News (Riyadh). 1 July 2019. Access Date: 9 February 2020. <https://www.arabnews.com/node/1518106/saudi-arabia>

hour.³⁴⁰⁴ The wind farm project is scheduled to be in commercial operation by 2022. It is estimated to generate power to supply 70,000 homes in Saudi Arabia.

On 28 August 2019 Saudi Aramco announced it planned to continue deploying artificial coral reefs along the Southern Red Sea, building its work the previous year.³⁴⁰⁵

On 15 September 2019 it was announced that Aramco would plant one million native trees and the Khurais Producing Department would plant 15,000 trees by the end of 2019 in order to address desertification, biodiversity, carbon sequestration, sand drifts and create natural shade.³⁴⁰⁶ The project includes testing and evaluating the impact of tree plantation technologies on water consumption and conservation, growth rate and cost-effectiveness.

On 19 September 2019 it was announced that Saudi Aramco launched a collaboration with the Power Systems Renewables Department and Unconventional Resources on green energy applications and technologies to advance energy efficiency and the deployment of renewable energies via technological solutions.³⁴⁰⁷

On 29 September 2019, the Saudi Energy Efficiency Center launched a course on Energy Conservation in Government Buildings in Riyadh for specialists at governmental organizations.³⁴⁰⁸ A total of 10 courses were scheduled until the end of 2019 in various cities.

On 2 October 2019 it was announced the Oil and Gas Climate Initiative (OGCI), a group of energy companies, including Saudi Aramco, recently introduced new measures to spur large-scale investments in carbon capture and storage.³⁴⁰⁹ This includes efforts to reduce carbon intensity and improve energy efficiency.

On 29 October 2019 it was announced that Saudi Aramco signed an MoU with the Norwegian software company Aker to cooperate on green solutions and industrial digitalization.³⁴¹⁰

On 30 October 2019, Saudi Arabia proposed plans to launch a carbon trading scheme toward an effort to reduce greenhouse gas emissions. The goal is to diversify Saudi Arabia's energy supplies and reduce carbon emissions.³⁴¹¹

³⁴⁰⁴ Dumat Al Jandal Wind Project Beats Record Low Price for Onshore Wind Power, Power Saudi Arabia, 8 August 2019. Access Date: 25 September 2020. <https://www.powersaudi Arabia.com.sa/web/attach/news/Dumat-Al-Jandal-Lowest-LCOE.pdf>.

³⁴⁰⁵ Increasing Efforts to Protect and Enhance Coral Reefs, Aramco, 28 August 2019. Access Date: 25 September 2020.

³⁴⁰⁶ Reducing Desertification with Native Trees, Aramco, 15 September 2019. Access Date: 25 September 2020. <https://www.aramco.com/en/news-media/news/2019/reducing-desertification-with-native-trees>.

³⁴⁰⁷ Using Renewables to Power Unconventional Gas Wells in Wa'ad Al-Shamal, Aramco, 19 September 2019. Access Date: 25 September 2020. <https://www.aramco.com/en/news-media/news/2019/renewables-powering-gas-wells-waad-al-shamal>.

³⁴⁰⁸ Energy Conservation Courses Started in Government Buildings, Saudi Energy Efficiency Center, 9 March 2020. Access Date: 24 September 2020. <https://www.seec.gov.sa/en/media-center/events-and-activities/energy-conservation-courses-started-in-government-buildings/>.

³⁴⁰⁹ Oil and Gas Climate Initiative Sets Sights on Carbon Capture, Aramco, 2 October 2019. Access Date: 25 September 2020. <https://www.aramco.com/en/news-media/news/2019/ocgi-new-measures-climate-challenges>.

³⁴¹⁰ Norway's Aker to Cooperate with Saudi Aramco on Digitalization, Reuters, 29 October 2019. Access Date: 25 September 2020. <https://www.reuters.com/article/us-aker-saudi/norways-aker-to-cooperate-with-saudi-aramco-on-digitalization-idUSKBN1X81WW>.

³⁴¹¹ Saudi Arabia plans to launch carbon trading scheme, Reuters (Riyadh). October 30 2019. Access Date: 9 February 2020. <https://www.reuters.com/article/us-saudi-investments-energy/saudi-arabia-plans-to-launch-carbon-trading-scheme-idUSKBN1X91M1>

On 30 October 2019 Saudi Arabia announced to the press a proposal for a framework on a circular low-carbon economy to reduce greenhouse gas emissions and reported that the Saudi Energy Efficiency Program reduced energy intensity by 8 per cent.³⁴¹²

In November 2019, Saudi Arabia began the second phase of issuing a standard specification on requirements for anti-rotation and adhesion on wet surfaces for tires, a measure related to energy efficiency.³⁴¹³

In November 2019, the National Energy Efficiency Services Company (Tarsheed) completed the work on energy efficiency at the headquarters buildings of the Institute of Public Administration in Riyadh.³⁴¹⁴

In December 2019, it was reported that Tarsheed completed the “rehabilitation works of the first, second and third packages of its projects aimed at raising the level of energy efficiency in 126 public schools from the schools in Riyadh.”³⁴¹⁵

On 12 December 2019 Saudi Aramco unveiled a low CO₂ truck at an event in Detroit, Michigan.³⁴¹⁶

On 28 January 2020 Saudi Arabia held a workshop on energy efficiency in household appliances and residential buildings, along with Japanese experts.³⁴¹⁷

On 8 February 2020, the Saudi government announced that it will host a carbon capture conference on 25-26 February 2020, with officials and executives of major companies in the oil and environmental sectors to discuss the role of carbon capture, utilization, and storage in enabling a circular carbon economy. The goal, says Oil Minister Shaikh Mohammad Al Khalifa, is to “combat climate change and increase oil production.”³⁴¹⁸

³⁴¹² Economist/His Highness Prince Abdulaziz bin Salman: The Saudi Energy Efficiency Program Reduced Energy Intensity by 8%, Saudi Press Agency, 30 October 2019. Access Dated: 24 September 2020.

<https://www.spa.gov.sa/1989217>.

³⁴¹³ Transportation Sector, Saudi Energy Efficiency Center, n.d. Access Date: 24 September 2020.

<https://www.seec.gov.sa/en/energy-sectors/transportation-sector/>.

³⁴¹⁴ The National Energy Efficiency Services Company (Tarsheed) Completes the Rehabilitation of the Headquarters Buildings of the Institute of Public Administration in Riyadh, National Energy Services Company, November 2019.

Access Date: 24 September 2020. [https://www.tarshid.com.sa/ar/a-](https://www.tarshid.com.sa/ar/a-news/%D8%A7%D9%84%D8%B4%D8%B1%D9%83%D8%A9-%D8%A7%D9%84%D9%88%D8%B7%D9%86%D9%8A%D8%A9-%D9%84%D8%AE%D8%AF%D9%85%D8%A7%D8%AA-%D9%83%D9%81%D8%A7%D8%A1%D8%A9-%D8%A7%D9%84%D8%B7%D8%A7%D9%82%D8%A9-%D8%AA%D8%B1/)

[news/%D8%A7%D9%84%D8%B4%D8%B1%D9%83%D8%A9-%D8%A7%D9%84%D9%88%D8%B7%D9%86%D9%8A%D8%A9-%D9%84%D8%AE%D8%AF%D9%85%D8%A7%D8%AA-%D9%83%D9%81%D8%A7%D8%A1%D8%A9-%D8%A7%D9%84%D8%B7%D8%A7%D9%82%D8%A9-%D8%AA%D8%B1/](https://www.tarshid.com.sa/ar/a-news/%D8%A7%D9%84%D8%B4%D8%B1%D9%83%D8%A9-%D8%A7%D9%84%D9%88%D8%B7%D9%86%D9%8A%D8%A9-%D9%84%D8%AE%D8%AF%D9%85%D8%A7%D8%AA-%D9%83%D9%81%D8%A7%D8%A1%D8%A9-%D8%A7%D9%84%D8%B7%D8%A7%D9%82%D8%A9-%D8%AA%D8%B1/)

³⁴¹⁵ Completes Energy (Tarsheed) Efficiency Rehabilitation Works in 126 Schools in Riyadh, National Energy Services Company, December 2019. Access Date: 24 September 2020. [https://www.tarshid.com.sa/ar/a-](https://www.tarshid.com.sa/ar/a-news/%D8%AA%D8%B1%D8%B4%D9%8A%D8%AF-%D8%AA%D8%B3%D8%AA%D9%83%D9%85%D9%84-%D8%A3%D8%B9%D9%85%D8%A7%D9%84-%D8%A5%D8%B9%D8%A7%D8%AF%D8%A9-%D8%AA%D8%A3%D9%87%D9%8A%D9%84-%D9%83%D9%81%D8%A7%D8%A1%D8%A9/)

[news/%D8%AA%D8%B1%D8%B4%D9%8A%D8%AF-%D8%AA%D8%B3%D8%AA%D9%83%D9%85%D9%84-%D8%A3%D8%B9%D9%85%D8%A7%D9%84-%D8%A5%D8%B9%D8%A7%D8%AF%D8%A9-%D8%AA%D8%A3%D9%87%D9%8A%D9%84-%D9%83%D9%81%D8%A7%D8%A1%D8%A9/](https://www.tarshid.com.sa/ar/a-news/%D8%AA%D8%B1%D8%B4%D9%8A%D8%AF-%D8%AA%D8%B3%D8%AA%D9%83%D9%85%D9%84-%D8%A3%D8%B9%D9%85%D8%A7%D9%84-%D8%A5%D8%B9%D8%A7%D8%AF%D8%A9-%D8%AA%D8%A3%D9%87%D9%8A%D9%84-%D9%83%D9%81%D8%A7%D8%A1%D8%A9/).

³⁴¹⁶ Aramco Debuts Low CO₂ Demonstration Truck at SAE Innovations in Mobility Event in Detroit, Aramco, 12 December 2019. Access Date: 25 September 2020. <https://www.aramco.com/en/news-media/news/2019/sae-innovations-mobility-event-detroit#>.

³⁴¹⁷ Economic/Energy Efficiency in Home Appliances and Residential Buildings Workshop at the Saudi Electronics Institute, 28 January 2020, Saudi Press Agency. Access Date: 24 September 2020.

<https://www.spa.gov.sa/viewfullstory.php?lang=ar&newsid=2027598>.

³⁴¹⁸ Saudi Arabia to host carbon capture conference, Trade Arabia (Riyadh) February 8 2020. Access Date: February 9 2020. http://trade Arabia.com/news/IND_363854.html

On 9 February 2020, the Saudi Government's Eastern Province Secretariat announced that it will establish a new "Department of Coral Reef Protection." The goal is to protect, clean, and stabilize the formation and stabilization of coral islands while also protecting the coasts from erosion.³⁴¹⁹

On 20 February 2020 Saudi Arabia held a workshop on Opportunities in the Energy Efficiency Services Companies Sector.³⁴²⁰

On 25 February 2020 Saudi Arabia held an international conference on carbon capture, utilization and storage.³⁴²¹

On 2 March 2020, Saudi Arabia held a workshop with licensed energy efficiency services companies.³⁴²²

Saudi Arabia has partially complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development. It has complied with its commitment to foster low emissions through its carbon trading scheme, Carbon Capture and Store technology and renewable energy. On resilient development it has promoted tree planting and coral reefs to address desertification and coastal erosion. However, on the latter it falls short of the "wide range" threshold.

Thus, Saudi Arabia receives a score of 0.

Analyst: Burhan Anees Khan

South Africa: 0

South Africa has partially complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development.

On 19 August 2019, the Department of Mineral Resources and Energy (DMRE) and the Independent Power Producer Office declared joint collaborations to add further consultations before the Integrated Resource Plan is promulgated. They declared future plans to attract financial investments in energy generation capacities in South Africa, including both renewables and non-renewables.³⁴²³ This collaboration will be jointly conducted by the implementation committee of the DMRE, the National Treasury and the Development Bank of Southern Africa.³⁴²⁴

On 5 September 2019, Minister of Environment, Forestry and Fisheries Barbara Creecy and Canada's Minister of Environment and Climate Change Catherine McKenna signed a memorandum

³⁴¹⁹ Creation of a Coral Reef Protection Department in the Eastern Region Municipality, Saudi Government Press Release (Riyadh) February 9 2020. Access Date: February 9 2020.

<https://www.mewa.gov.sa/ar/MediaCenter/PressReleases/PressFiles/20200209.pdf>

³⁴²⁰ Workshop Entitled Opportunities in the Energy Efficiency Services Companies Sector, 12 March 2020, Saudi Energy Efficiency Center. Access Date: 24 September 2020. <https://www.seec.gov.sa/en/media-center/events-and-activities/workshop-entitled-opportunities-in-the-efficiency-services-sector/>.

³⁴²¹ iCCUS 2020 Conference and Exhibition to Kick Off Today in Riyadh, Saudi Press Agency, 25 February 2020. Access Date: 25 September 2020. <https://www.spa.gov.sa/viewfullstory.php?lang=en&newsid=2038885>.

³⁴²² Workshop with Licensed Energy Efficiency Services Companies, 12 March 2020, Saudi Energy Efficiency Center. Access Date: 24 September 2020. <https://www.seec.gov.sa/en/media-center/events-and-activities/workshop-with-licensed-energy-efficiency-services-companies/>.

³⁴²³ Acting IPP Office head promises 'extensive' talks with stakeholders on new bid documents, Engineering News (Pretoria) 19 August 2019. Access Date: 12 February 2020. <https://m.miningweekly.com/article/acting-ipp-office-head-promises-extensive-talks-with-stakeholders-on-new-bid-documents-2019-08-19>

³⁴²⁴ Acting IPP Office head promises 'extensive' talks with stakeholders on new bid documents, Engineering News (Pretoria) 19 August 2019. Access Date: 12 February 2020. <https://m.miningweekly.com/article/acting-ipp-office-head-promises-extensive-talks-with-stakeholders-on-new-bid-documents-2019-08-19>

of understanding, stating their agreement to cooperate on environmental and climate issues. These issues include “fighting climate change, increasing environmental compliance and enforcement, improving chemicals and waste management, protecting biodiversity and enhancing conservation, and combating marine litter and plastics policy,” and utilizing technology for clean economic growth.³⁴²⁵

On 26 and 27 September 2019, Minister of Mineral Resources and Energy Samson Gwede Mantashe attended meetings with large energy providers in order to request that they lower the tariffs associated with power plants. The minister told independent power producers (IPPs) that the tariffs were placing a drain on energy-intensive industries, and were reducing the competitiveness and viability of investments in the renewable energy sector. In the statement, the Ministry stated that IPPs had committed to engage further and to “create working mechanisms to take these discussions forward in a positive and collaborative manner.”³⁴²⁶

On 8 October 2019, Minister Matashe declared continued support for South Africa’s Renewable Energy Independent Power Producer Procurement Programme (REIPPP). It encourages investment in independent power producers, by generating 17,800 megawatts of renewable energy after 2012, moving from 5,000 megawatts in 2019 and a further 2,000 megawatts by 2020.³⁴²⁷

On 15 October 2019, the South African government announced its Integrated Resource Plan, which plans to commission another 24,000 to 26,000 megawatts of renewable energy in the next 11 years, backed by over ZAR1 trillion in funds.³⁴²⁸

On 26 October 2019, South Africa attended the 29th BASIC meeting in Beijing, with delegates from China, Brazil and India. In preparation for the 25th Conference of the Parties to the United Nations Framework Convention on Climate Change, they acknowledged climate change and “confirmed their commitments to multilateralism in order to address the issue and to foster climate resilience and promote greenhouse gas emissions reduction.”³⁴²⁹ They also emphasized their commitment to the implementation of the Paris Agreement and support of other developing countries in doing so as well as they are the most vulnerable to climate change repercussions.³⁴³⁰ Additionally, the BASIC

³⁴²⁵ South Africa and Canada agree to cooperate on environmental protection and climate change, Department of Environmental Affairs (Pretoria) 5 September 2019. Access Date: 3 April 2020. https://www.environment.gov.za/mediarelease/southafricaandcanada_environmentalprotection_climatechange_memorandumofunderstanding

³⁴²⁶ Government asks renewables IPPs to voluntarily lower tariffs, Engineering News (Pretoria) 27 September 2019. Access Date: 12 February 2020. <http://m.engineeringnews.co.za/article/government-asks-renewables-ipp-to-voluntarily-lower-tariffs-2019-09-27>

³⁴²⁷ Speech by the Minister of Mineral Resources and Energy Mr SAMSON GWEDE MANTASHE, MP at the WINDABA Conference 8th, October 2019, Ministry of Mineral Resources and Energy (Pretoria) October 8 2019. Access Date: 12 February 2020. <http://www.energy.gov.za/files/media/speeches/2019/Speech-by-Minister-at-WINDABA-Conference-081019.pdf>

³⁴²⁸ SA’s renewable IPP programme would benefit from changes that enhance local content, Energy MX (Pretoria) 15 October 2019. Access Date: 12 February 2020. <https://energymx.co.za/2019/10/15/sas-renewable-ipp-programme-would-benefit-from-changes-that-enhance-local-content/>

³⁴²⁹ Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020. <https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

³⁴³⁰ Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020. <https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

group encouraged funding to the Green Climate Fund to support developing countries as they adapt.³⁴³¹

On 15 November 2019, African Ministers of the Environment agreed to accelerate sustainable development action. The ministers committed to implement measures to ensure environmental stability, a circular economy, focusing on raising awareness to the role oceans and freshwater play in the economy, and the need to mitigate the effects of floods and cyclones alike.³⁴³² They also reaffirmed their commitment to promoting an economy based on biodiversity, and resilient development as part of their commitment to the Pan-African Action Agenda on Ecosystem Restoration for Increased Resilience.³⁴³³ Additionally, they restated their intention to provide sufficient resources to address land degradation and drought, and recognize the interconnectivity between climate change and development programs, the need to reduce plastic waste, and make stronger, informed decisions.³⁴³⁴

On 4 December 2019, South Africa issued a press report on its USAID South Africa Low Emissions Development Program. With ZAR200 million in funding from the government, the program currently holds a projected reduction of 600,000 tons of carbon dioxide emissions via SA-LED technical assistance across a variety of sectors. This includes the use of biogas digesters in order to generate energy, support in developing public-private partnerships to finance and procure clean energy, such as solar photovoltaic panels and mini-hydropower generation installations and increases in the structure of audit processes for water and waste treatment plants. USAID also plans to increase its achievements in technical standards, by training over 705 municipal officials on LED concepts and applications, including on the use of the Clean Energy Reduction tool and how to implement the SANS 10400-XA protocol.³⁴³⁵

On 10 December 2019, a new stage of REIPPP's renewable energy initiative was announced, with 27 power plants under production, forecasted to add over 2,300 MW to South Africa's power grid. The project will provide a combination of wind, biomass, and hydro power, with 813 MW worth of solar power also coming in late February 2020. The Kangnas Wind Farm is expected to be fully operation by late August 2020, with its 61 turbines contributing a total of 140 MW to the grid. The government is also funding the construction of the Perdekraal East Wind Farm, with its 48 turbines expected to be installed by late April 2020.³⁴³⁶

³⁴³¹ Joint Statement issued at the Conclusion of the 29th BASIC Ministerial meet on Climate Change, Ministry of Environment, Forest and Climate Change (New Delhi) 26 October 2019. Date Accessed: 3 April 2020. <https://pib.gov.in/Pressreleaseshare.aspx?PRID=1589318>

³⁴³² African Ministers of the Environment agree to accelerate action through effective mechanisms for sustainable development, Department of Environmental Affairs (Pretoria) 15 November 2019. Access Date: 3 April 2020. https://www.environment.gov.za/mediarelease/amcen17agreement_sustainabledevelopmentaction#

³⁴³³ African Ministers of the Environment agree to accelerate action through effective mechanisms for sustainable development, Department of Environmental Affairs (Pretoria) 15 November 2019. Access Date: 3 April 2020. https://www.environment.gov.za/mediarelease/amcen17agreement_sustainabledevelopmentaction#

³⁴³⁴ African Ministers of the Environment agree to accelerate action through effective mechanisms for sustainable development, Department of Environmental Affairs (Pretoria) 15 November 2019. Access Date: 3 April 2020. https://www.environment.gov.za/mediarelease/amcen17agreement_sustainabledevelopmentaction#

³⁴³⁵ Announcing the USAID South Africa Low Emissions Development Program, Climatelinks (Pretoria) December 4 2019. Access Date: 12 February 2020. <https://www.climatelinks.org/blog/announcing-usaid-south-africa-low-emissions-development-program-climatelinks>

³⁴³⁶ Some light at the end of the load shedding tunnel, Business Insider South Africa (Pretoria) 10 December 2019. Access Date: 12 February 2020. <https://www.businessinsider.co.za/some-light-at-the-end-of-the-load-shedding-tunnel-new-independent-power-plants-could-be-connected-to-the-grid-by-february-heres-what-is-coming-online-and-when-2019-12>

On February 2020, the government announced a new measure for its operation to implement renewable energy sources. As part of its Integrated Resource Plan, government officials throughout 2019 and 2020 have devised a project to build 12 new Eolic energy plants, thus creating wind energy facilities to replace South Africa's wide-ranging use of coal. South Africa's current goal is to have, by 2030, 14.4 GW of consumed energy supplied by wind power. The government estimates that this is equal to 18 per cent of the total energy required nationally, meaning that it will have to add 1.6 GW of wind energy to the grid every year from 2019 leading up to 2030. The project thus entails the construction of 5,700 wind turbines, along with 640 new steel towers per year, located all throughout the western and eastern capes of its coastline.³⁴³⁷

On 4 March 2020, South Africa began construction of its Sirius Solar Plant, consolidating the first phase of a project designed to provide over 217 GW, leading to a reduction of over 180 thousand tonnes of carbon dioxide per year. The Sirius Solar Plant draws funding from the REIPP and is currently being built two other solar power plants expected to reach commercial operation by the end of the year, which will jointly provide 172 MW.³⁴³⁸

South Africa has partially complied with its commitment to foster innovation in a wide range of areas for low emissions though Integrated Resource Plan and USAID South African Low Emissions Development Program and Renewable Energy Independent Power Producer Procurement Programme. Further, it has strived to foster innovation in a wide range of areas for resilient development through the African Ministers of the Environment's reaffirmation of the Pan-African Action Agenda on Ecosystem Restoration for Increased Resilience, and its support for the Green Climate Fund. However, it falls short of the "wide range" threshold.

Thus, South Africa receives a score of 0.

Analyst: Lucy Faria

Turkey: +1

Turkey has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development.

On 23 September 2019, Minister of the Environment and Urbanization Murat Kurum spoke with United Nations Secretary-General Antonio Guterres about developments of Turkey's Infrastructure, Cities, and Local Action Working Group. Minister Kurum states that Turkey's buildings are responsible for emitting 40 per cent of global greenhouse gases of the sector. As such, they have prepared the Zero Carbon Buildings For All initiative.³⁴³⁹

On 5 October 2019, Minister Kurum announced that a tariff will be introduced for consumers of electricity produced from only renewable energy sources. He states that the Ministry will continue to increase domestic investment and share of renewables in electricity in geothermal power. He further states that Turkey continues to meet targets in increasing its capacity for renewable energy, reaching

³⁴³⁷ South Africa to Build 12 New Wind Farms to Replace Coal Stations by 2030, IT News Africa (Pretoria) 27 February 2020. Access Date: 23 March 2020. <https://www.itnewsafrika.com/2020/02/south-africa-to-build-12-new-wind-farms-to-replace-coal-stations-by-2030/>

³⁴³⁸ Scatec Solar's 86 MW Solar Project in South Africa Begins Operation, Mercom (New Delhi) 4 March 2020. Access Date: 23 March 2020. <https://mercomindia.com/scatec-solar-86-mw-solar-project-south-africa/>

³⁴³⁹ Climate Presentation in the United Nations from the Minister's Institution, The Ministry of Environment and Urbanization (Ankara) 23 September 2019. Access Date: 25 March 2020. <https://csb.gov.tr/bakan-kurum-dan-birlesmis-milletlerde-iklim-sunumu-bakanlik-faaliyetleri-28609>

4767 megawatts, and will continue to increase with the implementation of the Renewable Energy Resource Areas competitions.³⁴⁴⁰

On 16 October 2019, Minister Kurum, participated in the “Zero Waste on Green Economy Path” program, organized in the Waste Management Panel. This panel evaluates Turkish organizations and institutions and their compliance with the zero-waste system. They concluded that 25,000 organizations and institutions have met the zero-waste system. They are evaluated on the establishment of the building, monitoring, waste generation, and recycling.³⁴⁴¹

On 3 December 2019, Minister Kurum announces that exhaust gas emission measurements will be applied automatically, and criminal proceedings will begin to take place for those who do not comply on 1 January 2020. Vehicle owners are required to take their exhaust gas measurements by the end of the year to avoid penalties. The goal is to prevent vehicular-induced air pollution.³⁴⁴²

On 7 December 2019, the Ministry of Environment and Urbanization outlined Natural Reserve Areas of Protection, which include ecosystems that are in high risk of degradation and destruction as a result of human activities and require special protection actions from national and international governments.³⁴⁴³

On 10 December 2019, Minister Kurum spoke at the Ministerial Session of the 25th Conference of the Parties to the UN Climate Change Framework Convention. In his speech, he stated that Turkey is committed to fighting against climate change, citing the country’s significant progress in renewable energy and energy efficiency.³⁴⁴⁴ The country’s installations of renewable energy sources increased by 37 per cent from 2015. The country has also implemented the National Energy Efficiency Action Plan, which has set a road map to increase energy efficiency with 55 actions, among other important projects that aid in climate action.³⁴⁴⁵

On 10 December 2019, Minister Kurum spoke at the Turkey Authority Panel to announce that they will be constructing 25,000 sustainable social housing by 2023 as one of their initiatives to combat climate change.³⁴⁴⁶

³⁴⁴⁰ Electricity Renewable Energy Tariff On the Way, The Ministry of Energy and Natural Resources (Ankara) 5 October 2019. Access Date: 25 March 2020. <https://www.enerji.gov.tr/tr-TR/Bakanlik-Haberleri/Elektrikte-yenilenebilir-enerji-tarifesi-yolda>

³⁴⁴¹ Minister Institution: “25 Thousand Institutions and Our Organization Met Zero-Waste System,” The Ministry of Environment and Urbanization (Ankara) 16 October 2019. Access Date: 25 March 2020. <https://csb.gov.tr/bakan-kurum-25-bin-kurum-ve-kurulusumuz-sifir-atik-sistemiyle-tanisti-bakanlik-faaliyetleri-28623>

³⁴⁴² New Semester in Exhaust Measurement Starts at New Year, The Ministry of Environment and Urbanization (Ankara) 03 December 2019. Access Date: 25 March 2020. <https://csb.gov.tr/egzoz-olcumunde-yeni-donem-yilbasinda-basliyor-bakanlik-faaliyetleri-29658>

³⁴⁴³ Natural Site Areas Conservation and Conditions for Use, The Ministry of Environment and Urbanization (Ankara) 07 December 2019. Access Date: 25 March 2020. <https://csb.gov.tr/dogal-sit-alanlari-koruma-ve-kullanma-kosullari-belirlendi-bakanlik-faaliyetleri-29662>

³⁴⁴⁴ The Minister’s Institution Outlines the Steps Against Climate Change in Madrid, The Ministry of Environment and Urbanization (Ankara) 10 December 2019. Access Date: 25 March 2020. <https://csb.gov.tr/bakan-kurum-iklim-degisikligine-karsi-atilan-adimlari-madrid-te-anlatti-bakanlik-faaliyetleri-29667>

³⁴⁴⁵ The Minister’s Institution Outlines the Steps Against Climate Change in Madrid, The Ministry of Environment and Urbanization (Ankara) 10 December 2019. Access Date: 25 March 2020. <https://csb.gov.tr/bakan-kurum-iklim-degisikligine-karsi-atilan-adimlari-madrid-te-anlatti-bakanlik-faaliyetleri-29667>

³⁴⁴⁶ Minister Institution: “Cities Need to Transform for the Fight Against Climate Change,” The Ministry of Environment and Urbanization (Ankara) 10 December 2019. Access Date: 25 March 2020. <https://csb.gov.tr/bakan-kurum-iklim-degisikligiyle-mucadele-icin-sehirlerin-donusmesi-gerekli-bakanlik-faaliyetleri-29666>

On 12 December 2019, Minister Kurum spoke at the World Energy Outlook 2019 Turkey, which deliberated the theme of “Global Energy and Climate Developments and Implications for Turkey.” He stated, in his speech, that the consumption of coal globally has dramatically increased, and that more Research and Development and Innovation is required for a shift to clean coal technologies to occur.³⁴⁴⁷

On 14 January 2020, Minister Kurum attended the 7th OIZ Energy Summit, organized by the Industrial Zones Supreme Body (OSBUK). He cites in his speech that the Ministry has saved TRY89 million with VAP projects since 2009, in addition to making significant contributions in efficient engine and lighting electricity projects, and waste heat recovery projects. He states that they have achieved their primary energy savings of 493,000 tons of oil in the last ten years.³⁴⁴⁸

On 15 January 2020, Minister Kurum announced an extensive Smart City Project. The Smart city Project will see that “all urban transformation areas and 100 thousand social housing projects will be built according to the smart neighborhood concept.” Charging stations will be introduced to all buildings, and specific attention will be paid to each city’s unique needs.³⁴⁴⁹

On 23 January 2020, Turkey announced it will be developing environmentally friendly, energy efficient buildings. Recognizing that their building sector is responsible for 30 per cent of emissions, they have decided to proliferate the number of green housing with the National Green Certificate Scheme.³⁴⁵⁰

On 26 February 2020, Minister Kurum reminded the public of the 15-item action plan for the Black Sea Region, and stated that they have started to produce 15,000 houses as part of that plan. Due to climate change, it is estimated that 9,043 buildings are at risk and will be demolished. As such, the creation of these 15,000 houses will house them and will be “energy-efficient, climate-sensitive housing projects.”³⁴⁵¹

On 5 March 2020, Minister Kurum made a reminder of the announcement of the National Smart Cities Strategy and Action Plan that will make electric charging stations mandatory. They will be required in shopping centres and in public parking lots, so as to make them easily accessible.³⁴⁵²

Turkey has fully complied with its commitment to foster innovation in a wide range of areas for low emissions through low-emission initiatives that integrate Indigenous knowledge, geothermal energy and the continuation of the National Energy Efficiency Action Plan. Further, it has strived to foster innovation in a wide range of areas for resilient development through its sustainable, energy-efficient

³⁴⁴⁷ World Energy Outlook 2019, Turkey Launch, The Ministry of Energy and Natural Resources (Istanbul) 12 December 2020. Access Date: 25 March 2020. <https://www.enerji.gov.tr/tr-TR/Bakanlik-Haberleri/Dunya-Enerji-Gorunumu-2019-Turkiye-Lansmani>

³⁴⁴⁸ 7. OSB Energy Summit, The Ministry of Energy and Natural Resources (Ankara) 14 January 2020. Access Date: 25 March 2020. <https://www.enerji.gov.tr/tr-TR/Bakanlik-Haberleri/7-OSB-Enerji-Zirvesi>

³⁴⁴⁹ Opening of Smart Cities and Municipalities Congress and Exhibition Was Held, Ministry of Environment and Urban Planning (Ankara) 15 February 2020. Access Date: 3 April 2020. <https://www.csb.gov.tr/akilli-sehirler-ve-belediyeler-kongre-ve-sergisinin-acilisi-yapildi-bakanlik-faaliyetleri-29694>

³⁴⁵⁰ The Number of “Green Building” Will Increase with Domestic Green Certificate System Yes-TR, Ministry of Environment and Urban Planning (Ankara) 23 January 2020. Access Date: 3 April 2020. <https://www.csb.gov.tr/yerli-yesil-sertifika-sistemi-yes-tr-ile-yesil-bina-sayisi-artacak-bakanlik-faaliyetleri-29700>

³⁴⁵¹ The Minister’s Institution: “The Floors in Flood and Flood Living Areas Will be Move,” Ministry for the Environment and Urban Planning (Ankara) 26 February 2020. Access Date: 3 April 2020. <https://www.csb.gov.tr/bakan-kurum-sel-ve-taskin-yasanan-alandaki-konutlar-tasinacak-bakanlik-faaliyetleri-29721>

³⁴⁵² Minister Institution: “Electric Charging Stations Will be Mandatory,” Ministry for the Environment and Urban Planning (Ankara) 5 March 2020. Access Date: 3 April 2020. <https://www.csb.gov.tr/bakan-kurum-elektrikli-sarj-istasyonlari-zorunlu-olacak-bakanlik-faaliyetleri-29725>

housing and smart city development, and its participation in the Zero Waste Green Economy Path program.

Thus, Turkey receives a score of +1.

Analyst: Margaret de Leon

United Kingdom: +1

The United Kingdom has fully complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development.

On 27 June 2019, the United Kingdom passed a major piece of legislation stipulating net-zero emissions by 2050. The law was recommended by the Committee on Climate Change, the UK's independent climate advisory body, and contains legally binding provisions designed to hold future iterations of the British Parliament accountable for its implementation.³⁴⁵³

On 27 June 2019, the United Kingdom pledged GBP26 million in support of projects to accelerate carbon-capture developments and carbon storage, with the purpose of transitioning into a net zero emissions economy by capturing over 40,000 tonnes of carbon dioxide per year. The development is a joint venture between nine major British companies, led by Tata Chemicals in Cheshire. When it is completed in 2021, the project will be the largest carbon capture plant in the UK, with the capacity of removing 100 times more carbon dioxide from the atmosphere than the country's current largest facility.³⁴⁵⁴

On 10 August 2019, the United Kingdom announced a new phase of its Cob Bauge project, a joint venture with the French government that is in the process of developing energy-efficient housing, while also developing low-carbon technology in the field of construction. The development can save up to four tonnes of carbon dioxide emissions per building, and is significantly less carbon-intensive than concrete, brick and plastic building materials. It will also assist both governments in their goal to meet current EU targets, and reduce their energy use by 20 per cent of 2012 levels by 2020.³⁴⁵⁵

On 26 August 2019, the British government announced its plans to double Parliament's contribution to the Green Climate Fund, which was established as part of the UN climate change process. The additional funds are intended to "enable more investment in prevention and preparedness" and assist emerging markets and developing economies within the process of mitigating future emissions of carbon dioxide.³⁴⁵⁶

³⁴⁵³ UK becomes first major economy to pass net zero emissions law, Department for Business, Energy & Industrial Strategy (London) 27 June 2019. Access Date: 9 February 2020. <https://www.gov.uk/government/news/uk-becomes-first-major-economy-to-pass-net-zero-emissions-law>

³⁴⁵⁴ UK's largest carbon capture project to prevent equivalent of 22,000 cars' emissions from polluting the atmosphere from 2021, Department for Business, Energy & Industrial Strategy (London) 27 June 2019. Access Date: 9 February 2020. <https://www.gov.uk/government/news/uks-largest-carbon-capture-project-to-prevent-equivalent-of-22000-cars-emissions-from-polluting-the-atmosphere-from-2021>

³⁴⁵⁵ Down-to-earth collaboration in France and England for low-carbon, sustainable houses, European Commission (Brussels) 10 August 2019. Access Date: 9 February 2020. https://ec.europa.eu/regional_policy/en/projects/france/down-to-earth-collaboration-in-france-and-england-for-low-carbon-sustainable-houses

³⁴⁵⁶ UK aid doubles support to reduce global carbon emissions and help developing countries adapt to the impact of climate change, Energy & Industrial Strategy (London) 26 August 2019. Access Date: 9 February 2020. <https://www.gov.uk/government/news/uk-aid-doubles-support-to-reduce-global-carbon-emissions-and-help-developing-countries-adapt-to-the-impact-of-climate-change>

On 2 October 2019, the United Kingdom published a press release setting out clear plans for future emission reductions by the Energy Networks Association, including investments by the Low Carbons Contract Company for large-scale renewable electricity for up to 16 GW of added renewable energy capacity.³⁴⁵⁷

On 3 October 2019, the government committed GBP220 million towards a new fusion reactor design programme. The government is currently working with engineers at the Culham Centre for Fusion Energy to develop the STEP project, which aims to build a plant capable of generating hundreds of megawatts of net electrical energy. Andrea Leadson, the UK Secretary of State, announced that “nuclear fusion has the potential to be an unlimited clean, safe and carbon-free energy source, and we want the first commercially viable machine to be in the UK.”³⁴⁵⁸

On 15 October 2019, Secretary of State Theresa Villiers spoke of its new Environment Bill. The bill will call for polluters to pay, damages prevented or mitigated, consideration for the environment throughout the entire government, and the adoption of precautionary approach in air quality, water, biodiversity and nature, resource efficiency and waste reduction. In regards to air quality, the UK invested GBP3.5 billion to reduce vehicular emissions.³⁴⁵⁹ For water, the bill aims at ensuring long-term water resources.³⁴⁶⁰ Regarding resources and waste, the bill will establish fines for single-use plastics, encourage reusable alternatives and implement efforts to introduce reusable drinking containers.³⁴⁶¹ The bill aims to tackle nature and biodiversity concerns by developing and publishing of Local Recovery Strategies for each habitat for better investments and results.³⁴⁶²

On 29 October 2019, the United Kingdom announced that it will double its contributions to International Climate Finance (ICF), providing GBP11.6 billion from the years 2021 to 2025 in order to enable developing countries to undertake greater climate action. The Office of the Prime Minister also declared its future plans to work with the ICF in order to “create clean growth markets,” invest in multi-donor funds, foster under-supported technologies, and drive decarbonization at a large commercial scale.³⁴⁶³

On 29 October 2019, Britain stated that its Department of Business, Energy, and Industrial Strategy has reopened the GBP10 million Rural Community Energy Fund, which provides financial, technical, and logistical support for rural communities in England that wish to develop renewable energy

³⁴⁵⁷ Clean Growth: Technologies for meeting the UK’s emissions reduction targets: Government and Ofgem Responses to the Committee’s Twentieth Report of Session 2017–19 First Special Report of Session 2017-2019, House of Commons Science and Technology Committee (London) 29 October 2019. Access Date: 9 February 2020. <https://publications.parliament.uk/pa/cm201919/cmselect/cmsctech/287/287.pdf>

³⁴⁵⁸ UK announces £220m to design a ‘commercially viable’ fusion power plant, IOP Publishing (London) 3 October 2019. Access Date: 9 February 2020. <https://physicsworld.com/a/uk-announces-220m-to-design-a-commercially-viable-fusion-power-plant/>

³⁴⁵⁹ Leading the charge for the environment, Department for Environment, Food and Rural Affairs (London) 15 October 2019. Access Date: 3 April 2020. <https://www.gov.uk/government/speeches/leading-the-charge-for-the-environment>

³⁴⁶⁰ Leading the charge for the environment, Department for Environment, Food and Rural Affairs (London) 15 October 2019. Access Date: 3 April 2020. <https://www.gov.uk/government/speeches/leading-the-charge-for-the-environment>

³⁴⁶¹ Leading the charge for the environment, Department for Environment, Food and Rural Affairs (London) 15 October 2019. Access Date: 3 April 2020. <https://www.gov.uk/government/speeches/leading-the-charge-for-the-environment>

³⁴⁶² Leading the charge for the environment, Department for Environment, Food and Rural Affairs (London) 15 October 2019. Access Date: 3 April 2020. <https://www.gov.uk/government/speeches/leading-the-charge-for-the-environment>

³⁴⁶³ Clean Growth: Technologies for meeting the UK’s emissions reduction targets: Government and Ofgem Responses to the Committee’s Twentieth Report of Session 2017–19 First Special Report of Session 2017-2019, House of Commons Science and Technology Committee (London) 29 October 2019 Access Date: 9 February 2020. <https://publications.parliament.uk/pa/cm201919/cmselect/cmsctech/287/287.pdf>

projects. The fund is designed to cover pre-development costs of sustainable developments in the British agricultural sectors, in an effort to foster low carbon projects at reasonable costs.³⁴⁶⁴

On 4 February 2020, the government communicated its commitment to ban the sale of diesel and gasoline by 2035. Secretary of Transport Grant Shapps announced that Britain plans to allocate GBP1.5 billion towards fostering the large-scale use of electric vehicles, as a steady alternative to gas-fueled cars.³⁴⁶⁵

On 28 February 2020, Britain finalized the assembly of its new Zero Carbon Commission, which contains a variety of climate experts drawn from political, scientific, academic and climate policy backgrounds. The commission is projected to develop a national decarbonization strategy across all sectors, ultimately designing a carbon pricing system that will help drive the UK towards its 2050 net zero goal. In an open letter to the public, the group declared its plan to “move quickly to deliver a concrete plan of action” well before the 26th Conference of the Parties to the United Nations Framework Convention on Climate Change.³⁴⁶⁶

On 4 March 2020, the United Kingdom announced it intends to introduce E-10 petrol into gas stations. This plan entails supplying a lower carbon fuel, which is projected to cut carbon dioxide emissions from the transport sector. The government stated that low-carbon E-10 fuel could reduce carbon dioxide emissions by 750,000 tons per year, which would be equivalent to removing approximately 350,000 cars off the road.³⁴⁶⁷

On 7 March 2020, the Scottish government introduced low-emission zones in order to combat air pollution and encourage drivers to use cleaner green-energy vehicles. The low-emission zones will be established in Aberdeen, Dundee, Edinburgh, and Glasgow and will include punitive charges for drivers who do not comply with regulations. The plan will allow entrance into zones to all cars that qualify as “electric and ultra-low emission vehicles (ULEV),” which entails any vehicles, either full-electric or hybrid, which emit less than 75g/km of carbon dioxide. The government also plans to pair Scotland’s low-emission zones with a future plan for Air Quality Management Areas by 2023, which will help to further manage urban pollution and improve air quality in Scotland’s four biggest cities.³⁴⁶⁸

On 16 March 2020, the Department for Environment, Food and Rural Affairs and the Environment Agency launched a plan to meet water shortages as a result of climate change, in order to foster resilience. The National Framework for Water Resources combines the industry, regulators and the government to reduce the average litres per person to 100 per day, improve water efficiency, decrease

³⁴⁶⁴ Clean Growth: Technologies for meeting the UK’s emissions reduction targets: Government and Ofgem Responses to the Committee’s Twentieth Report of Session 2017–19 First Special Report of Session 2017-2019, House of Commons Science and Technology Committee (London) 29 October 2019. Access Date: 9 February 2020. <https://publications.parliament.uk/pa/cm201919/cmselect/cmsctech/287/287.pdf>

³⁴⁶⁵ UK government plans to ban the sale of diesel and gasoline cars by 2035, CNBC (London) 4 February 2020. Access Date: 23 March 2020. <https://www.cnbc.com/2020/02/04/uk-government-plans-to-ban-sale-of-diesel-and-gasoline-cars-by-2035.html>

³⁴⁶⁶ Towards Zero Carbon: Expert commission begins work to design UK carbon pricing system, Business Green (London) 28 February 2020. Access Date: 23 March 2020. <https://www.businessgreen.com/news/4011533/zero-carbon-expert-commission-begins-design-uk-carbon-pricing>

³⁴⁶⁷ In bid to cut transport emissions, UK government wants to introduce lower carbon fuel to gas stations, CNBC (London) 4 March 2020. Access Date: 23 March 2020. <https://www.cnbc.com/2020/03/04/uk-wants-to-introduce-lower-carbon-gasoline-to-filling-stations.html>

³⁴⁶⁸ Scottish cities introduce low emission zones, AutoTrader U.K (London) 7 March 2020. Access Date: 23 March 2020. <https://www.autotrader.co.uk/content/news/scottish-cities-introduce-low-emission-zones>

leakage, develop new reservoirs, enhance regional water transfers and reduce the use of harmful drought measures.³⁴⁶⁹

On 16 March 2020, the Department for Environment, Food and Rural Affairs announced the seven-year Agricultural Transition period will commence with GBP1 million in Future Farming Resilience Funding to support farmers as they adopt new farming methods.³⁴⁷⁰

On 18 March 2020, the government announced that local communities across England would be provided more than GBP2.2 million in air quality funding as part of the Air Quality Grant program that seeks to lower emissions. Additionally, there is the Clean Air Strategy that aims to phase out domestic coal and wet wood usage for cleaner alternatives.³⁴⁷¹

The United Kingdom has fully complied with its commitment to foster innovation in a wide range of areas for low emissions through its emphasis on carbon capture and storage technology, clean transportation projects and the Rural Community Energy Fund. Further, it has strived to foster innovation in a wide range of areas for resilient development through its contribution to the Green Climate Fund, resilient farming, and the National Framework for Water Resources.

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

Analyst: Lucy Faria

United States: 0

The United States has partially complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development.

On 13 September 2019, the Department of Energy's Office of Fossil Energy announced it will provide approximately USD100 million for research and development for carbon capture, utilization and storage in order to lower CO2 emissions.³⁴⁷²

On 4 October 2019, the US and India launched the Flexible Resource Initiative in New Delhi, under the US-India Clean Energy Finance Task Force. The goal is so “develop strategies to ensure that India’s power systems are flexible enough to integrate renewable energy within the next decade, while still meeting market demands for electricity, in order to achieve its renewable energy vision.”³⁴⁷³

³⁴⁶⁹ Preserving our water resources in a changing climate — industry and government tackle threat to future water supplies, Department for Environment, Food and Rural Affairs (London) 16 March 2020. Access Date: 3 April 2020. <https://www.gov.uk/government/news/preserving-our-water-resources-in-a-changing-climate-industry-and-government-tackle-threat-to-future-water-supplies>

³⁴⁷⁰ £1 million to support transition to future farming system, Department for Environment, Food and Rural Affairs (London) 16 March 2020. Access Date: 3 April 2020. <https://www.gov.uk/government/news/1-million-to-support-transition-to-future-farming-system>

³⁴⁷¹ Local authorities get £2.2 million boost to tackle air pollution, Department for Environment, Food and Rural Affairs (London) 18 March 2020. Access Date: 3 April 2020. <https://www.gov.uk/government/news/local-authorities-get-22-million-boost-to-tackle-air-pollution>

³⁴⁷² US Department of Energy Announces \$100M for Carbon Capture, Utilization, and Storage, Department of Energy (Washington) 13 September 2019. Access Date: 3 April 2020. <https://www.energy.gov/articles/us-department-energy-announces-110m-carbon-capture-utilization-and-storage>

³⁴⁷³ United States and India Launch Flexible Resources Initiative-Growth through Clean Energy, US Department of State (Washington) 4 October 2019. Access Date: 2 February 2020. <https://www.state.gov/united-states-and-india-launch-flexible-resources-initiative-growth-through-clean-energy/>

On 22 October 2019, the Department of Energy announced it will allocate USD28 million for wind energy research, developing, testing, demonstration and development.³⁴⁷⁴

On 2 November 2019, the governments of the United States and Korea agreed to bilateral cooperation between the New Southern Policy and the Indo-Pacific Strategy at the East Asia Summit in Bangkok, Thailand. The goals of the agreement are far-reaching, but some include strengthening natural resource management to limit plastic waste production, sustainable water management projects, and funding climate change response.³⁴⁷⁵

On 6 November 2019, the Department of Energy announced it will be providing USD128 million to enhance solar energy technologies. 75 research projects will be funded.³⁴⁷⁶

On 18 November 2019, Assistant Secretary of State for Energy Resources Francis Fannon and Australian Ambassador Joe Hockey signed a memorandum of understanding on energy mineral resources. The goals are to: “1) promote responsible and sustainable mining practices in the energy mineral sector, 2) support resilient supply chains of energy minerals by facilitating trade and industry connectivity, 3) establish measures to meet expected demand for clean energy technologies.”³⁴⁷⁷

On 18 December 2019, Assistant Secretary Fannon and Canadian Associate Deputy Minister of Natural Resources Shawn Tupper signed a memorandum of understanding on energy mineral resources. The goals are to: “1) promote responsible and sustainable mining practices in the energy mineral sector, 2) support resilient supply chains of energy minerals by facilitating trade and industry connectivity, 3) establish measures to meet expected demand for clean energy technologies.”³⁴⁷⁸

On 5 February 2020, the Department of Energy announced it would allocate up to USD125.5 million for research into solar energy technologies. The research and development will permit a reduced cost of solar energy.³⁴⁷⁹ Moreover, the Department of Energy and the Office of Energy Efficiency and Renewable Energy also announced that up to USD4.8 million will go towards geothermal research and USD300 million for sustainable transportation.

³⁴⁷⁴ DOE Awards \$28 Million for Wind energy Research, Development, and Demonstration Projects, US Department of Energy (Washington) 22 October 2019. Access Date: 2 February 2020. <https://www.energy.gov/articles/doe-awards-28-million-wind-energy-research-development-and-demonstration-projects>

³⁴⁷⁵ Join Fact Sheet by the United States and the Republic of Korea on Cooperation between the New Southern Policy and the Indo-Pacific Strategy, US Department of State (Washington) 2 November 2019. Access Date: 2 February 2020. <https://www.state.gov/joint-statement-by-the-united-states-and-the-republic-of-korea-on-cooperation-between-the-new-southern-policy-and-the-indo-pacific-strategy/>

³⁴⁷⁶ Department of Energy Announces \$128 Million in New Projects to Advance Solar Technologies, Department of Energy (Washington) 6 November 2019. Access Date: 3 April 2020. <https://www.energy.gov/articles/department-energy-announces-128-million-new-projects-advance-solar-technologies>

³⁴⁷⁷ United States and Australia Sign MoU on Critical Energy Minerals, US Department of State (Washington) 18 November 2019. Access Date: 2 February 2020. <https://www.state.gov/united-states-and-australia-sign-mou-on-critical-energy-minerals/>

³⁴⁷⁸ United States and Canada Sign Memorandum of Understanding on Critical Energy Minerals, US Department of State (Washington) 18 December 2019. Access Date: 2 February 2020. <https://www.state.gov/united-states-and-canada-sign-memorandum-of-understanding-on-critical-energy-minerals/>

³⁴⁷⁹ Department of Energy Announces \$125.5 Million in New Funding for Solar Technologies, Department of Energy (Washington) 5 February 2020. Access Date: 3 April 2020. <https://www.energy.gov/articles/department-energy-announces-1255-million-new-funding-solar-technologies>

On 19 February 2020, the Department of Energy stated it would provide USD100 million for research into artificial photosynthesis to create solar fuels.³⁴⁸⁰

On 30 March 2020, the Department of Energy announced it will provide USD22 million for research into carbon capture, utilization and storage technology.³⁴⁸¹

The United States has partially complied with its commitment to foster innovation in a wide range of areas for lower emissions and resilient development. It has complied with its commitment to foster low emissions through its investment in carbon capture, utilization and storage technology as well as other funding geothermal and solar energy. Further, it has strived to foster innovation in a wide range of areas for resilient development through the New Southern Policy and the Indo-Pacific Strategy agreed to at the East Asia Summit. However, it has fallen short of the “wide range” threshold.

Thus, the United States receives a score of 0.

Analyst: Gabrielle Regimbal

European Union: +1

The European Union has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development.

On 5 June 2019, the European Union set a regulation on the carbon dioxide emission performance standards for new heavy-duty vehicles, which took effect 14 August 2019. This new standard aims to reduce carbon dioxide emissions in accordance with previous legislation regarding climate change objectives.³⁴⁸² The regulation includes incentives for low-emissions and zero-emissions vehicles, as well as financial penalties for excess emissions.³⁴⁸³

On 5 June 2019, the European Union set a regulation on the internal market for electricity, which took effect 1 January 2020. The regulation sets a number of principles on which electricity markets should be operated. Although the regulation has many goals, it is relevant to the European Union’s commitment as it aims to support the decarbonization of the European Union’s energy sector, thus fostering innovation towards lowering emissions.³⁴⁸⁴

On 27 November 2019, the European Union set a regulation on sustainability-related discourses in the financial services sector. Among other objectives, this new regulation aims to increase transparency on adverse impacts on sustainability in decisions made in the financial market. This regulation was set in accordance with various legislation including the United Nations global

³⁴⁸⁰ Department of Energy to Provide 100 Million for Solar Fuels Research, Department of Energy (Washington) 19 February 2020. Access Date: 3 April 2020. <https://www.energy.gov/articles/department-energy-provide-100-million-solar-fuels-research>

³⁴⁸¹ Department of Energy to Provide \$22 Million for Research on Capturing Carbon Dioxide from Air, Department of Energy (Washington) 30 March 2020. Access Date: 3 April 2020. <https://www.energy.gov/articles/department-energy-provide-22-million-research-capturing-carbon-dioxide-air>

³⁴⁸² Regulation (EU) 2019/1242 of the European Parliament of the Council, European Union Law (Brussels) 25 July 2019. Access Date: 9 February 2020. <https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=celex:32019R1242>

³⁴⁸³ CO2 emission performance standards for new heavy-duty vehicles, European Union Law (Brussels) 6 February 2020. Access Date: 9 February 2020. <https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1581292498724&uri=LEGISSUM:4415454>

³⁴⁸⁴ Risk-preparedness in the electricity sector, European Union Law (Brussels) 25 July 2019. Access Date: 9 February 2020. <https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1581292498724&uri=LEGISSUM:4404054>.

sustainable development framework and the United Nations Framework Convention on Climate Change.³⁴⁸⁵

On 22 January 2020, the European Union loaned EUR27 million to Artech Group to fund its research and innovation strategy to modernize its digital infrastructure. This strategy, among other things, aims to integrate renewable energy into the digital network used by the Artech Group.³⁴⁸⁶

On 28 January 2020, the European Investment Bank signed two agreements, each allocating EUR23.2 million in loans to fund modernization programs in Polish cities. These programs aim to reduce energy loss and improve air quality.³⁴⁸⁷

On 4 February 2020, the European Commission and the European Investment Fund partnered to launch the EUR75 million BlueInvest Fund to fund economic activities related to oceans, seas and coasts as “oceans are the first in line to be hit by climate change.”³⁴⁸⁸ These activities are thought to have an important role in the European Union’s goal to have a carbon-neutral economy by 2050. The European Commission also funds an additional EUR40 million through the European Maritime and Fisheries Fund to help with the development of “new innovative and sustainable products, technologies and services.”³⁴⁸⁹

On 5 February 2020, the European Investment Bank allocated EUR60 million to the Spanish energy company CEPSA to fund the implementation of more sustainable and efficient technologies such as the “Detal” system. The technology has been proven to reduce carbon dioxide emissions, use of water and use of electricity.³⁴⁹⁰

On 13 February 2020, the European Commission, along with Austria, France, Liechtenstein, Luxembourg, the Netherlands, Switzerland, Germany, and the Belgian Wallonia region adopted the Rhine 2040 programme. This collaboration of countries situated along the Rhine river aims at “managing the Rhine and its river basin in a sustainable way and make it climate resilient.”³⁴⁹¹

³⁴⁸⁵ Regulation (EU) 2016/2088 of the European Parliament of the Council, European Union Law (Brussels) 9 December 2019. Access Date: 9 February 2020. <https://eur-lex.europa.eu/legal-content/EN/TXT/?qid=1581376951124&uri=CELEX:32019R2088>

³⁴⁸⁶ Investment Plan supports innovative electric power company in Spain, European Commission (Brussels) 22 January 2020. Access Date: March 18, 2020. https://ec.europa.eu/info/news/investment-plan-supports-innovative-electric-power-company-spain-2020-jan-22_en

³⁴⁸⁷ Investment Plan supports energy-saving upgrade of heating distribution networks in two Polish cities, European Commission (Brussels) 28 January 2020. Access Date: 18 March 2020. https://ec.europa.eu/info/news/investment-plan-supports-energy-saving-upgrade-heating-distribution-networks-two-polish-cities-2020-jan-28_en

³⁴⁸⁸ European Commission and European Investment Fund launch €75 million BlueInvest Fund, European Commission (Brussels) 4 February 2020. Access Date: 9 February 2020. https://ec.europa.eu/commission/presscorner/detail/en/IP_20_167

³⁴⁸⁹ European Commission and European Investment Fund launch €75 million BlueInvest Fund, European Commission (Brussels) 4 February 2020. Access Date: 9 February 2020. https://ec.europa.eu/commission/presscorner/detail/en/IP_20_167

³⁴⁹⁰ Investment Plan helps Spanish energy company CEPSA to become greener, European Commission (Brussels) 5 February 2020. Access Date: 18 March 2020. https://ec.europa.eu/info/news/investment-plan-helps-spanish-energy-company-cepsa-become-greener-2020-feb-05_en

³⁴⁹¹ Rhine countries adopt programme for sustainable management and climate resilience, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 13 February 2020. Access Date: 22 March 2020. <https://www.bmu.de/en/pressrelease/rhine-countries-adopt-programme-for-sustainable-management-and-climate-resilience/>

Methods of increasing the resilience include focusing on “interconnected habitats and increased biodiversity, good water quality, reduction of flood risk and coping with low water.”³⁴⁹²

On 17 February 2020, the European Commission announced their EUR101.2 million investment into the projects of the LIFE program for Environment and Climate Action. The money will be allocated to ten large-scale projects aiming to help Europe’s transition to a sustainable economy and climate neutrality.³⁴⁹³ The goal of this program is to focus on nature conservation, air quality and greening the economy to foster resilience to climate change.³⁴⁹⁴

On 27 February 2020, the European Investment Bank signed an agreement with the Latvian National Promotional Institution Altum to loan EUR18 million to fund energy efficient projects conducted by Latvian companies. The funding will be focused specifically on the industry sector.³⁴⁹⁵

On 13 March 2020, the European Commission allocated EUR980 million to support key European energy infrastructure projects that qualify for the funding. Included in the goals for the projects that would receive funding are contributing to sustainable development and reducing carbon dioxide emissions.³⁴⁹⁶

On 20 March 2020, the European Commission approved a EUR77 million investment into upgrading the waste management system in Bulgaria. The goal of this investment is to help provide more affordable clean energy, derived from unrecyclable municipal waste that will have fewer negative impacts on the environment.³⁴⁹⁷

The European Union has fully complied with its commitment to foster innovation in a wide range of areas for low emissions though the reduction CO2 emissions from heavy-duty vehicles, the energy sector and focus on biodiversity. Further, it has strived to foster innovation in a wide range of areas for resilient development through BlueInvest, its assistance to Polish cities and the Rhine 2040 programme and the LIFE program for Environment and Climate Action.

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

Analyst: Jenna Im

³⁴⁹² Rhine countries adopt programme for sustainable management and climate resilience, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 13 February 2020. Access Date: 22 March 2020. <https://www.bmu.de/en/pressrelease/rhine-countries-adopt-programme-for-sustainable-management-and-climate-resilience/>

³⁴⁹³ EU invests more than €100 million in new LIFE Programme projects to promote a green and climate-neutral Europe, European Commission (Brussels) 17 February 2020. Access Date: 18 March 2020. https://ec.europa.eu/clima/news/eu-invests-more-100-million-new-life-programme-projects-promote-green-and-climate-neutral_en

³⁴⁹⁴ EU invests more than €100 million in new LIFE Programme projects to promote a green and climate-neutral Europe, European Commission (Brussels) 17 February 2020. Access Date: 18 March 2020. https://ec.europa.eu/clima/news/eu-invests-more-100-million-new-life-programme-projects-promote-green-and-climate-neutral_en

³⁴⁹⁵ Altum and EIB join forces for energy efficiency investments in Latvia, European Commission (Brussels) 27 February 2020. Access Date: 18 March 2020. https://ec.europa.eu/commission/presscorner/detail/en/IP_20_329

³⁴⁹⁶ Energy Union: €980 million in EU funding available for clean energy infrastructure, European Commission (Brussels) 13 March 2020. Access Date: 18 March 2020. https://ec.europa.eu/info/news/energy-union-eu980-million-eu-funding-available-clean-energy-infrastructure-2020-mar-13_en

³⁴⁹⁷ Cohesion Policy: Commission invests in better waste management in Bulgaria, European Commission (Brussels) 20 March 2020. Access Date: 20 March 2020. https://ec.europa.eu/info/news/cohesion-policy-commission-invests-better-waste-management-bulgaria-2020-mar-20_en