

## 2019 G20 Osaka Summit Final Compliance Report

Prepared by

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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			+1
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			+1
European Union			+1
Average		+0.70 (85%)	

### 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.”<sup>5523</sup> The report also states that “some extremes have changed as a result of anthropogenic influences, including increases in atmospheric concentrations of greenhouse gases.”<sup>5524</sup> According to Canada's National Post, G20 members are responsible for approximately 80 per cent of all greenhouse gas emissions.<sup>5525</sup> 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.

<sup>5523</sup> 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/>

<sup>5524</sup> 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/>

<sup>5525</sup> 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.”<sup>5526</sup> 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.”<sup>5527</sup>

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.”<sup>5528</sup> 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.<sup>5529</sup>

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.”<sup>5530</sup>

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.<sup>5531</sup> 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.<sup>5532</sup> Ultimately, they recognized green growth and sustainable development as an essential part of prosperity and wellbeing.<sup>5533</sup>

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

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<sup>5526</sup> 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>

<sup>5527</sup> 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>

<sup>5528</sup> G20 Seoul Summit, G20 Information Centre (Toronto) 12 November 2010. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/summits/2010seoul.html>

<sup>5529</sup> G20 Seoul Summit, G20 Information Centre (Toronto) 12 November 2010. Access Date: 20 November 2019. <http://www.g20.utoronto.ca/summits/2010seoul.html>

<sup>5530</sup> 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>

<sup>5531</sup> 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>

<sup>5532</sup> 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>

<sup>5533</sup> 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.<sup>5534</sup> 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.”<sup>5535</sup> 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.<sup>5536</sup>

At the 2015 Antalya Summit, the G20 recognized climate change as “one of the greatest challenges of our time.”<sup>5537</sup> 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.”<sup>5538</sup> 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.”<sup>5539</sup> G20 members submitted their Intended Nationally Determined Contributions to the UNFCCC.<sup>5540</sup>

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.<sup>5541</sup>

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.”<sup>5542</sup> 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.<sup>5543</sup> 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

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<sup>5534</sup> 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>

<sup>5535</sup> 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>

<sup>5536</sup> 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>

<sup>5537</sup> 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>

<sup>5538</sup> 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>

<sup>5539</sup> 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>

<sup>5540</sup> 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>

<sup>5541</sup> 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>

<sup>5542</sup> 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>

<sup>5543</sup> 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.<sup>5544</sup>

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.<sup>5545</sup> Moreover, members recognized the utility of renewables, technologies and infrastructure for job creation and cleaner and sustainable energy.<sup>5546</sup>

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.<sup>5547</sup> 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.”<sup>5548</sup> 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.<sup>5549</sup>

### **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.”<sup>5550</sup> 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.”<sup>5551</sup> 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 effects of climate change. Innovation therefore means the creation of technology or policies that either offset or reduce emissions or leads to resilient development.

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<sup>5544</sup> 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>

<sup>5545</sup> 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>

<sup>5546</sup> 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>

<sup>5547</sup> 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>

<sup>5548</sup> 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>

<sup>5549</sup> 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>

<sup>5550</sup> 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](http://www.g7.utoronto.ca/compliance/Compliance_Coding_Manual_2019.pdf)

<sup>5551</sup> Innovation, Merriam Webster (Springfield) Access Date: 19 April 2020. <https://www.merriam-webster.com/dictionary/innovation>

“A wide range of areas” is understood as wide-ranging, meaning “extensive in scope; comprehensive.”<sup>5552</sup> 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.<sup>5553</sup> 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.<sup>5554</sup>

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.”<sup>5555</sup> Specifically, actions that foster low emissions may include investment in renewable energy or low-carbon technology, but may also include increasing carbon sink capacity.<sup>5556</sup> 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.”<sup>5557</sup> 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.

This assessment covers G20 members’ actions taken between 30 June 2019 and 10 October 2020.

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<sup>5552</sup> Wide-ranging, Merriam-Webster (Springfield) Access Date 19 April 2020. <https://www.merriam-webster.com/dictionary/wide-ranging>

<sup>5553</sup> 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>

<sup>5554</sup> 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](https://www.un.org/en/development/desa/policy/untaskteam_undf/thinkpieces/3_disaster_risk_resilience.pdf)

<sup>5555</sup> 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>

<sup>5556</sup> 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](https://www.ipcc.ch/site/assets/uploads/2018/03/SRREN_FD_SPM_final-1.pdf)

<sup>5557</sup> 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.

*Compliance Director: Kaylin Dave*

*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.<sup>5558</sup>

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.<sup>5559</sup>

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.<sup>5560</sup>

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.<sup>5561</sup>

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

<sup>5558</sup> 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>

<sup>5559</sup> 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>

<sup>5560</sup> 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>

<sup>5561</sup> 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.<sup>5562</sup>

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.<sup>5563</sup>

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.<sup>5564</sup>

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.<sup>5565</sup> 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.”<sup>5566</sup>

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.<sup>5567</sup>

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;

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<sup>5562</sup> 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>

<sup>5563</sup> 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>

<sup>5564</sup> 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>

<sup>5565</sup> 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>

<sup>5566</sup> 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>

<sup>5567</sup> 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.<sup>5568</sup> The cooperation between the two nations will be materialized through the exchange, visits, technical support, and projects.<sup>5569</sup>

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.<sup>5570</sup> 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.<sup>5571</sup>

On 6 July 2020, the Ministry of Environment and Sustainable Development, the Ministry of Security, the Ministry of Defence, the Ministry of Agriculture and Foreign Ministry relaunched the initiative Pampa Azul.<sup>5572</sup> Pampa Azul is a public policy promoting scientific research, technological development and productive innovation in the South Atlantic. Minister of the Environment and Sustainable Development Juan Cabandie stressed the importance of preserving marine biodiversity and ecosystems, and making maritime resources sustainable within this framework.<sup>5573</sup> With various committees and research institutes, Pampa Azul is expected to bring social awareness of the services and benefits provided by the sea.<sup>5574</sup>

On 17 September 2020, the Ministry of Environment and Sustainable Development of the Nation announced it will deliver air quality sensors to the Municipality of Cordoba, and held a meeting to advance the implementation of a citizen participation project to measure and monitor air quality in

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<sup>5568</sup> 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-recibio-su-par-portugues-joao-pedro-matos-fernandes>

<sup>5569</sup> 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-recibio-su-par-portugues-joao-pedro-matos-fernandes>

<sup>5570</sup> 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>

<sup>5571</sup> 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>

<sup>5572</sup> The national government relaunched Pampa Azul, a strategic initiative for the South Atlantic, Ministry of Environment and Sustainable Development (Buenos Aires) 17 April 2020. Access Date: 30 July 2020. <https://www.argentina.gob.ar/noticias/el-gobierno-nacional-relanzo-pampa-azul-una-iniciativa-estrategica-para-el-atlantico-sur>

<sup>5573</sup> The national government relaunched Pampa Azul, a strategic initiative for the South Atlantic, Ministry of Environment and Sustainable Development (Buenos Aires) 17 April 2020. Access Date: 30 July 2020. <https://www.argentina.gob.ar/noticias/el-gobierno-nacional-relanzo-pampa-azul-una-iniciativa-estrategica-para-el-atlantico-sur>

<sup>5574</sup> The national government relaunched Pampa Azul, a strategic initiative for the South Atlantic, Ministry of Environment and Sustainable Development (Buenos Aires) 17 April 2020. Access Date: 30 July 2020. <https://www.argentina.gob.ar/noticias/el-gobierno-nacional-relanzo-pampa-azul-una-iniciativa-estrategica-para-el-atlantico-sur>

the city.<sup>5575</sup> The project seeks to raise awareness in the population about the importance of knowing air quality of urban centres.<sup>5576</sup>

On 5 October 2020, the Ministry of Environment and Sustainable Development came to an agreement with the Amaicha del Valle community to assist in restoration projects.<sup>5577</sup> The “Reforestation of the native forest in Encalilla” project will target degraded areas and aim to restore them via drip irrigation systems.<sup>5578</sup>

On 7 October 2020, the Ministry of Environment and Sustainable Development met outline plans for the initial phase of the International Climate Initiative.<sup>5579</sup> It is a five year, EUR 15 million initiative, sponsored by Germany, that will aim to address numerous areas of climate change.<sup>5580</sup> These areas include “forests and landscape restoration; resource efficiency, sustainable mobility; and climate governance, cooperation and sustainable finance” within 60 developing countries.<sup>5581</sup>

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.

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<sup>5575</sup> Ambiente announced the delivery of air quality sensors to the Municipality of Cordoba, Ministry of Environment and Sustainable Development (Buenos Aires) 17 September 2020. Access Dates: 28 September 2020. <https://www.argentina.gob.ar/noticias/ambiente-anuncio-la-entrega-de-sensores-de-calidad-de-aire-la-municipalidad-de-cordoba>

<sup>5576</sup> Ambiente announced the delivery of air quality sensors to the Municipality of Cordoba, Ministry of Environment and Sustainable Development (Buenos Aires) 17 September 2020. Access Dates: 28 September 2020. <https://www.argentina.gob.ar/noticias/ambiente-anuncio-la-entrega-de-sensores-de-calidad-de-aire-la-municipalidad-de-cordoba>

<sup>5577</sup> Environment promotes the reforestation of the native forest in Encalilla, Ministry of Environment and Sustainable Development (Buenos Aires) 5 October 2020. Access Date: 15 November 2020. <https://www.argentina.gob.ar/noticias/ambiente-promueve-la-reforestacion-del-bosque-nativo-en-encalilla>

<sup>5578</sup> A climate initiative proposal with German funding started, Ministry of Environment and Sustainable Development (Buenos Aires) 7 October 2020. Access Date: 15 November 2020. <https://www.argentina.gob.ar/noticias/se-inicio-una-propuesta-de-iniciativa-climatica-con-financiamiento-aleman>

<sup>5579</sup> A climate initiative proposal with German funding started, Ministry of Environment and Sustainable Development (Buenos Aires) 7 October 2020. Access Date: 15 November 2020. <https://www.argentina.gob.ar/noticias/se-inicio-una-propuesta-de-iniciativa-climatica-con-financiamiento-aleman>

<sup>5580</sup> A climate initiative proposal with German funding started, Ministry of Environment and Sustainable Development (Buenos Aires) 7 October 2020. Access Date: 15 November 2020. <https://www.argentina.gob.ar/noticias/se-inicio-una-propuesta-de-iniciativa-climatica-con-financiamiento-aleman>

<sup>5581</sup> A climate initiative proposal with German funding started, Ministry of Environment and Sustainable Development (Buenos Aires) 7 October 2020. Access Date: 15 November 2020. <https://www.argentina.gob.ar/noticias/se-inicio-una-propuesta-de-iniciativa-climatica-con-financiamiento-aleman>

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.<sup>5582</sup>

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.”<sup>5583</sup>

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.”<sup>5584</sup>

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.”<sup>5585</sup>

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.<sup>5586</sup>

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

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<sup>5582</sup> 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>

<sup>5583</sup> 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>

<sup>5584</sup> 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>

<sup>5585</sup> 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>

<sup>5586</sup> 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/>

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.<sup>5587,5588</sup>

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 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.”<sup>5589</sup>

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.<sup>5590,5591</sup>

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.<sup>5592</sup>

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.<sup>5593</sup>

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

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<sup>5587</sup> 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/>

<sup>5588</sup> \$100m Otway Research Facility, CO2CRC (Canberra) September 2019. Access Date: 8 February 2020. <http://www.co2crc.com.au/otway-research-facility-2/>

<sup>5589</sup> 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/>

<sup>5590</sup> Centennial Coal: Methane Reduction Demonstration, COAL21 (Canberra) 2019. Access Date: 8 February 2020. <https://coal21.com/projects/current/centennial-coal-methane-reduction-demonstration/>

<sup>5591</sup> 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>

<sup>5592</sup> 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>

<sup>5593</sup> 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/>

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.<sup>5594</sup>

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 bolstering production and profits. Additionally, the government will reinvest another AUD100 million a year until it reaches AUD5 billion.<sup>5595</sup>

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.”<sup>5596</sup>

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.”<sup>5597</sup> 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.<sup>5598</sup> The new designed consortium is tasked with building the project known as Snowy 2.0, which will expand its energy intake to 2,000 megawatts, connecting two existing water reservoirs in Kosciuszko National Park.<sup>5599</sup>

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.<sup>5600</sup>

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

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<sup>5594</sup> 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/>

<sup>5595</sup> 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>

<sup>5596</sup> 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>

<sup>5597</sup> 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>

<sup>5598</sup> 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>

<sup>5599</sup> 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>

<sup>5600</sup> 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>

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.<sup>5601</sup>

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 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.<sup>5602</sup>

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.<sup>5603</sup> 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.<sup>5604</sup>

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.<sup>5605</sup>

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.<sup>5606</sup>

On 24 March 2020, the government introduced new projects endowed with public funding from its Emission's Reduction Fund.<sup>5607</sup> 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

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<sup>5601</sup> 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/>

<sup>5602</sup> Hydrogen Energy, Australian Renewable Energy Agency (Canberra) 18 March 2020. Access Date: 23 March 2020. <https://arena.gov.au/renewable-energy/hydrogen/>

<sup>5603</sup> 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>

<sup>5604</sup> 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/>

<sup>5605</sup> 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/>

<sup>5606</sup> 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/>

<sup>5607</sup> 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>

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.<sup>5608</sup>

On 16 April 2020, Australia launched the first round of applications for its AUD70 million Renewable Hydrogen Deployment Funding, with the aim of fast-tracking the country's development of renewable energy, and energy and supporting large-scale projects with a minimum of 5MW capacity, up to 10MW projects or more.<sup>5609</sup>

On 29 April 2020, the Arrowsmith Hydrogen Project secured AUD300 million in funding to construct a wind and solar energy facility in Dongara, including a AUD70 million federal grant by the Australian Renewable Energy Agency.<sup>5610</sup> The project is expected to produce over 25 tonnes of green hydrogen per day.<sup>5611</sup>

On 3 June 2020, Minister for Resources Jaelyn Symes announces an additional AUD600,000 will be granted to Australian Carbon Innovation to continue its low-emissions projects using the Latrobe Valley's brown-coal resources, including clean hydrogen, carbon fibres, graphenes and fertilizers.<sup>5612</sup> The Statement on Future Uses of Brown Coal "sets the parameters around the use of coal" to ensure that the province's brown coal resources are only used in low-emission product development.<sup>5613</sup>

On 10 June 2020, the Climate Risk and Early Warning Systems Initiative's member states (Australia, Canada, France, Germany, Luxembourg, Netherlands, Switzerland and the United Kingdom) announced USD4.8 million for "the delivery of early warning systems and services" to the Pacific region. The objective of these systems and services was to protect residents from severe weather.<sup>5614</sup> These systems and services are intended to allow for proactivity by making forecasting possible.<sup>5615</sup>

On 29 July 2020, Karen Andrews, Australia's Minister for Industry, Science and Technology, assigned major project status to the Australian-ASEAN Power Link (AAPL), a AUD22 billion plan

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<sup>5608</sup> 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>

<sup>5609</sup> ARENA launches \$70 million hydrogen funding round, PV Magazine Australia (Sydney) 16 April 2020. Access Date: 24 July 2020. <https://www.pv-magazine-australia.com/2020/04/16/arena-launches-70-million-hydrogen-funding-round/>

<sup>5610</sup> Massive hydrogen project gets green light after securing \$300m investment, Renew Economy (Sydney) 29 April 2020. Access Date: 24 July 2020.

<https://reneweconomy.com.au/massive-hydrogen-project-gets-green-light-after-securing-300m-investment-68959/>

<sup>5611</sup> Massive hydrogen project gets green light after securing \$300m investment, Renew Economy (Sydney) 29 April 2020. Access Date: 24 July 2020.

<https://reneweconomy.com.au/massive-hydrogen-project-gets-green-light-after-securing-300m-investment-68959/>

<sup>5612</sup> Vic gov to back R&D for future low emission technologies, Prime Creative Media (Melbourne) 3 June 2020. Access Date: 24 July 2020.

<https://www.manmonthly.com.au/news/vic-gov-back-rd-future-low-emission-technologies/>

<sup>5613</sup> Vic gov to back R&D for future low emission technologies, Prime Creative Media (Melbourne) 3 June 2020. Access Date: 24 July 2020.

<https://www.manmonthly.com.au/news/vic-gov-back-rd-future-low-emission-technologies/>

<sup>5614</sup> Financing increased for early warning systems in Small Island Developing States, CREWS Initiative (Geneva) 10 June 2020. Access Date: 27 July 2020. <https://www.crews-initiative.org/en/news/financing-increased-early-warning-systems-small-island-developing-states>

<sup>5615</sup> Financing increased for early warning systems in Small Island Developing States, CREWS Initiative (Geneva) 10 June 2020. Access Date: 27 July 2020. <https://www.crews-initiative.org/en/news/financing-increased-early-warning-systems-small-island-developing-states>

to build the world's largest current solar farm in Australia's Northern Territory, and to share the electricity produced with Singapore.<sup>5616</sup> Utilizing a 3.700 kilometre-long undersea cable, it is estimated that it will supply 20 per cent of Singapore's energy demand.<sup>5617</sup>

On 6 August 2020, Australia's Ministry of Energy and Emissions Reduction announced AUD187 million of government funding towards 6,700,000 small-scale clean energy investments in the agribusiness, property and transportation sectors.<sup>5618</sup> Australia's Minister Angus Taylor characterized the move as a greater effort to employ Australian technology towards reducing emissions without imposing added costs on households or Australian taxpayers.<sup>5619</sup>

On 27 August 2020, the Australian Parliament introduced the Clean Energy Finance Corporation Amendment Bill.<sup>5620</sup> If enacted, the bill will establish a Grid Reliability Fund with over AUD1 billion, under the Clean Energy Finance Corporation Act.<sup>5621</sup> The bill aims to expand federal funds available for clean energy investment in Australia and encourage energy storage projects in electricity generation, transmission and distribution and grid stabilization technology.<sup>5622</sup>

Australia has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development. It has strived to foster innovation in a wide range of areas for low emission through its investment in renewables and green energy, its CarbonNet Project and its investment in technology for carbon capture and sequestration. Further, it has strived to foster innovation in a wide range of areas for 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.

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<sup>5616</sup> Australia backs plan for world's biggest solar farm to power Singapore, Global Construction News (London) 31 July 2020. Access Date: 24 September 2020. <https://www.globalconstructionreview.com/news/australia-backs-plan-worlds-biggest-solar-farm-pow/>

<sup>5617</sup> Australia backs plan for world's biggest solar farm to power Singapore, Global Construction News (London) 31 July 2020. Access Date: 24 September 2020. <https://www.globalconstructionreview.com/news/australia-backs-plan-worlds-biggest-solar-farm-pow/>

<sup>5618</sup> Government support for Australia's energy future, Australian Ministry for Energy and Emissions Reduction (Canberra) 6 August 2020. Access Date: 24 September 2020. <https://www.miragenews.com/government-support-for-australia-s-energy-future/>

<sup>5619</sup> Government support for Australia's energy future, Australian Ministry for Energy and Emissions Reduction (Canberra) 6 August 2020. Access Date: 24 September 2020. <https://www.miragenews.com/government-support-for-australia-s-energy-future/>

<sup>5620</sup> Clean Energy Finance Corporation Amendment (Grid Reliability Fund) Bill 2020, Parliament of Australia (Canberra) 27 August 2020. Access Date: 24 September 2020.

<https://parlinfo.aph.gov.au/parlInfo/search/display/display.w3p;page=0;query=BillId:r6581%20Recstruct:billhome>

<sup>5621</sup> Clean Energy Finance Corporation Amendment (Grid Reliability Fund) Bill 2020, Parliament of Australia (Canberra) 27 August 2020. Access Date: 24 September 2020.

<https://parlinfo.aph.gov.au/parlInfo/search/display/display.w3p;page=0;query=BillId:r6581%20Recstruct:billhome>

<sup>5622</sup> Clean Energy Finance Corporation Amendment (Grid Reliability Fund) Bill 2020, Parliament of Australia (Canberra) 27 August 2020. Access Date: 24 September 2020.

<https://parlinfo.aph.gov.au/parlInfo/search/display/display.w3p;page=0;query=BillId:r6581%20Recstruct:billhome>

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.<sup>5623</sup>

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.<sup>5624</sup>

On 18 October 2019, the Ministry of the Environment announced that Brazil is on track to achieve CO<sub>2</sub> emissions target for 2020. The projection was published by the Sustainable Development Goal (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.<sup>5625</sup>

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.”<sup>5626</sup> 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.<sup>5627</sup> Additionally, the BASIC group encouraged funding to the Green Climate Fund to support developing countries as they adapt.<sup>5628</sup> The Green Climate Fund sets out to “help developing countries reduce their greenhouse gas emissions and enhance their ability to respond to climate change.”<sup>5629</sup>

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<sup>5623</sup> 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/>

<sup>5624</sup> 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>

<sup>5625</sup> Brazil Close to Meeting CO<sub>2</sub> 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>

<sup>5626</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5627</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5628</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5629</sup> About GCF, Green Climate Fund (Songdo). Access Date: 3 April 2020. <https://www.greenclimate.fund/about/contact>

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.<sup>5630</sup>

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.”<sup>5631</sup>

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.<sup>5632</sup>

On 4 June 2020, the Ministry of the Environment announced that they would be investing BRL500 million to the Floresta+ program, that would compensate those who take on conservation and recovery initiatives for the environment.<sup>5633</sup> Initiatives can include “fencing, surveillance, firefighting, soil protection, monitoring, biodiversity research, planting native species, agroforestry activities, and integrated crop-livestock activity.”<sup>5634</sup>

On 6 July 2020, the Minister of the Environment, Ricardo Salles, agreed to a collaboration with Vale to invest in national parks, combatting, promotion sanitation, urban green areas and zero waste for BRL250 million.<sup>5635</sup> Additionally, an investment of BRL1.5 million will be allocated for combatting desertification and soil degradation, and recovery of unproductive areas and the preservation of other areas.<sup>5636</sup>

On 4 August 2020, the Ministry of the Environment granted BRL350 million to the National Bank for Economic and Social Development specifically for projects contributing to the improvement of

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<sup>5630</sup> 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>

<sup>5631</sup> 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-implementa%C3%A7%C3%A3o-do-acordo-de-paris-na-cop-25.html>

<sup>5632</sup> 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>

<sup>5633</sup> MMA launches the world’s largest program to boost compensation for those who protect forests, Ministry of Environment (Brasilia) 4 June 2020. Access Date: 24 September 2020. <https://www.mma.gov.br/informma/item/15758-mma-lan%C3%A7a-maior-programa-do-mundo-para-impulsionar-remunera%C3%A7%C3%A3o-de-quem-protege-as-florestas.html>

<sup>5634</sup> MMA launches the world’s largest program to boost compensation for those who protect forests, Ministry of Environment (Brasilia) 4 June 2020. Access Date: 24 September 2020. <https://www.mma.gov.br/informma/item/15758-mma-lan%C3%A7a-maior-programa-do-mundo-para-impulsionar-remunera%C3%A7%C3%A3o-de-quem-protege-as-florestas.html>

<sup>5635</sup> MMA closes agreement with Vale and allocates R \$250 million to environmental actions in MG, Ministry of the Environment (Brasilia) 8 July 2020. Access Date: 24 September 2020. [https://www.mma.gov.br/informma/item/15796-mma-fecha-acordo-com-a-vale-e-destina-r\\$-250-milh%C3%B5es-para-a%C3%A7%C3%B5es-ambientais-em-mg.html](https://www.mma.gov.br/informma/item/15796-mma-fecha-acordo-com-a-vale-e-destina-r$-250-milh%C3%B5es-para-a%C3%A7%C3%B5es-ambientais-em-mg.html)

<sup>5636</sup> MMA closes agreement with Vale and allocates R \$250 million to environmental actions in MG, Ministry of the Environment (Brasilia) 8 July 2020. Access Date: 24 September 2020. [https://www.mma.gov.br/informma/item/15796-mma-fecha-acordo-com-a-vale-e-destina-r\\$-250-milh%C3%B5es-para-a%C3%A7%C3%B5es-ambientais-em-mg.html](https://www.mma.gov.br/informma/item/15796-mma-fecha-acordo-com-a-vale-e-destina-r$-250-milh%C3%B5es-para-a%C3%A7%C3%B5es-ambientais-em-mg.html)

environmental quality including solid waste management, sanitation works, air and water quality. Projects that can be selected must pertain to “the implementation of projects, the acquisition of machinery and equipment and technological development related to the reduction of greenhouse gas emissions and adaptation to climate changes and their effects.”<sup>5637</sup> The investment from the ministry aims to improve sanitary conditions and overall living standards for urban cities in Brazil.<sup>5638</sup>

Brazil has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development. It has strived 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 reduction goals for 2020. Further, 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.

On 3 July 2019, the 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.<sup>5639</sup>

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.”<sup>5640</sup>

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

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<sup>5637</sup> MMA releases R\$350 million for projects aimed at improving urban environmental quality, Ministry of the Environment. (Brasilia) 4 August 2020. Access Date: 24 September 2020. [https://www.mma.gov.br/informma/item/15816-mma-libera-r\\$-350-milh%C3%B5es-para-projetos-que-visem-a-melhoria-da-qualidade-ambiental-urbana.html](https://www.mma.gov.br/informma/item/15816-mma-libera-r$-350-milh%C3%B5es-para-projetos-que-visem-a-melhoria-da-qualidade-ambiental-urbana.html)

<sup>5638</sup> MMA releases R\$350 million for projects aimed at improving urban environmental quality, Ministry of the Environment. (Brasilia) 4 August 2020. Access Date: 24 September 2020. [https://www.mma.gov.br/informma/item/15816-mma-libera-r\\$-350-milh%C3%B5es-para-projetos-que-visem-a-melhoria-da-qualidade-ambiental-urbana.html](https://www.mma.gov.br/informma/item/15816-mma-libera-r$-350-milh%C3%B5es-para-projetos-que-visem-a-melhoria-da-qualidade-ambiental-urbana.html)

<sup>5639</sup> 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>

<sup>5640</sup> 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>

innovation in energy-efficient cooling technologies, and improve the understanding of how carbon interacts with the forests, wetlands, and oceans.”<sup>5641</sup>

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.”<sup>5642</sup>

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.<sup>5643</sup>

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.”<sup>5644</sup>

On 26 July 2019, Minister McKenna announced CAD200,000 in funding through the federal government’s Climate Action Fund to Inlinniapaa Skills Development Centre. This funding will help “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.”<sup>5645</sup>

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.<sup>5646</sup>

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<sup>5641</sup> 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>

<sup>5642</sup> 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>

<sup>5643</sup> 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>

<sup>5644</sup> 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>

<sup>5645</sup> 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>

<sup>5646</sup> 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>

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.<sup>5647</sup>

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.<sup>5648</sup>

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.<sup>5649</sup>

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.”<sup>5650</sup>

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.”<sup>5651</sup>

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.<sup>5652</sup>

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

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<sup>5647</sup> 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>

<sup>5648</sup> 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>

<sup>5649</sup> 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>

<sup>5650</sup> 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>

<sup>5651</sup> 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>

<sup>5652</sup> 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>

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.”<sup>5653</sup> 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.”<sup>5654</sup> 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.<sup>5655</sup> 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.”<sup>5656</sup>

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.<sup>5657</sup>

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 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.”<sup>5658</sup>

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.<sup>5659</sup> 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

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<sup>5653</sup> 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>

<sup>5654</sup> 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>

<sup>5655</sup> 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>

<sup>5656</sup> 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>

<sup>5657</sup> 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>

<sup>5658</sup> 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>

<sup>5659</sup> 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>

goal is to discuss climate change and mitigate its effects by preserving nature and ecosystems.<sup>5660</sup> 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.<sup>5661</sup>

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.<sup>5662</sup>

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.<sup>5663</sup>

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.<sup>5664</sup>

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.<sup>5665</sup>

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.<sup>5666</sup>

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<sup>5660</sup> 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>

<sup>5661</sup> 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>

<sup>5662</sup> 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>

<sup>5663</sup> 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>

<sup>5664</sup> 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>

<sup>5665</sup> 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>

<sup>5666</sup> 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>

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.<sup>5667</sup>

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.<sup>5668</sup>

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.”<sup>5669</sup>

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.<sup>5670</sup>

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 conservation, and combating marine litter and plastics policy,” and utilizing technology for clean economic growth.<sup>5671</sup>

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.<sup>5672</sup> 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.”<sup>5673</sup> In addition, CAD3

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<sup>5667</sup> 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>

<sup>5668</sup> 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>

<sup>5669</sup> 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>

<sup>5670</sup> 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>

<sup>5671</sup> 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](https://www.environment.gov.za/mediarelease/southafricaandcanada_environmentalprotection_climatechange_memorandumofunderstanding)

<sup>5672</sup> 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>

<sup>5673</sup> 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>

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.<sup>5674</sup>

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.<sup>5675</sup>

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.<sup>5676</sup>

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.<sup>5677</sup>

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.<sup>5678</sup>

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.”<sup>5679</sup>

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

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<sup>5674</sup> 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>

<sup>5675</sup> 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>

<sup>5676</sup> 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>

<sup>5677</sup> 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>

<sup>5678</sup> 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>

<sup>5679</sup> 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/>

assessed under the Impact Assessment Act.”<sup>5680</sup> The goal of this is to help with the transition of phasing out traditional coal-fired power by 2030.<sup>5681</sup>

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.<sup>5682</sup>

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.<sup>5683</sup>

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 composting centres to limit the amount of organic waste in landfills and expand the current Green Bin program in the city.<sup>5684</sup>

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.<sup>5685</sup>

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

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<sup>5680</sup> 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>

<sup>5681</sup> 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>

<sup>5682</sup> 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>

<sup>5683</sup> 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>

<sup>5684</sup> 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>

<sup>5685</sup> 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>

province conserve 4400 hectares of vital habitat and protect existing conserved areas. It will also help protect endangered species in these protected areas.<sup>5686</sup>

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.<sup>5687</sup>

On 21 February 2020, Minister Wilkinson announced that two conservation agreements between British Columbia and the West Moberly and Sauteau 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.<sup>5688</sup>

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 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.<sup>5689</sup>

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.”<sup>5690</sup> The goal of this effort is to help people in Ontario implement climate change policies effectively in their cities.<sup>5691</sup>

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

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<sup>5686</sup> 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>

<sup>5687</sup> 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>

<sup>5688</sup> 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>

<sup>5689</sup> 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>

<sup>5690</sup> 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>

<sup>5691</sup> 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>

be used to connect an already existing biomass heating system in the territory which will reduce emissions by 82 per cent.<sup>5692</sup>

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).<sup>5693</sup>

On 5 June 2020, Minister Wilkinson announced plans for 60 new conservation projects across Canada.<sup>5694</sup> The goal of these projects is to preserve nature and protect biodiversity.<sup>5695</sup> These projects will also protect endangered species and improve the stability of ecosystems in Canada.<sup>5696</sup> These projects help to reduce vulnerability from climate change and recover ecosystems that have already been impacted, with an emphasis on Indigenous led projects and nature-based climate solutions.<sup>5697</sup>

On 10 June 2020, the Climate Risk and Early Warning Systems Initiative's member states (Australia, Canada, France, Germany, Luxembourg, Netherlands, Switzerland and the United Kingdom) announced USD4.8 million for "the delivery of early warning systems and services" to the Pacific region. The objective of these systems and services was to protect residents from severe weather.<sup>5698</sup> These systems and services are intended to allow for proactivity by making forecasting possible.<sup>5699</sup>

On 25 June 2020, Canada announced that it has partnered with Finland and the Netherlands to host three events to discuss the future of circular economies and fight climate change.<sup>5700</sup> The events, led by the Finnish Innovation Fund Sitra, will explain the tools and solutions that all countries can use to

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<sup>5692</sup> 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>

<sup>5693</sup> 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>

<sup>5694</sup> Canada marks World Environment Day by protecting nature from coast to coast to coast, Environment and Climate Change Canada (Ottawa) 5 June 2020. Date Accessed: 18 July 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/06/canada-marks-world-environment-day-by-protecting-nature-from-coast-to-coast-to-coast.html>

<sup>5695</sup> Canada marks World Environment Day by protecting nature from coast to coast to coast, Environment and Climate Change Canada (Ottawa) 5 June 2020. Date Accessed: 18 July 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/06/canada-marks-world-environment-day-by-protecting-nature-from-coast-to-coast-to-coast.html>

<sup>5696</sup> Canada marks World Environment Day by protecting nature from coast to coast to coast, Environment and Climate Change Canada (Ottawa) 5 June 2020. Date Accessed: 18 July 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/06/canada-marks-world-environment-day-by-protecting-nature-from-coast-to-coast-to-coast.html>

<sup>5697</sup> Canada marks World Environment Day by protecting nature from coast to coast to coast, Environment and Climate Change Canada (Ottawa) 5 June 2020. Date Accessed: 18 July 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/06/canada-marks-world-environment-day-by-protecting-nature-from-coast-to-coast-to-coast.html>

<sup>5698</sup> Financing increased for early warning systems in Small Island Developing States, CREWS Initiative (Geneva) 10 June 2020. Access Date: 27 July 2020. <https://www.crews-initiative.org/en/news/financing-increased-early-warning-systems-small-island-developing-states>

<sup>5699</sup> Financing increased for early warning systems in Small Island Developing States, CREWS Initiative (Geneva) 10 June 2020. Access Date: 27 July 2020. <https://www.crews-initiative.org/en/news/financing-increased-early-warning-systems-small-island-developing-states>

<sup>5700</sup> Finland, Canada, and the Netherlands join forces to advance their circular economy as key to a sustainable recovery, Environment and Climate Change Canada (Gatineau) 25 June 2020. Date Accessed: 18 July 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/06/finland-canada-and-the-netherlands-join-forces-to-advance-the-circular-economy-as-key-to-a-sustainable-recovery.html>

address the issues of climate change on their own soil and enact policies that seek to reduce its effects.<sup>5701</sup> It also takes special consideration of the COVID-19 pandemic, aiming to encourage countries to use economic shutdowns as an opportunity to implement more green policies rather than returning to “business as usual.”<sup>5702</sup>

On 7 August 2020, Minister Hajdu announced an investment of CAD175,000 from the federal government for water quality projects in the Thunder Bay region.<sup>5703</sup> These projects are aimed at improving the water quality of Lake Superior by focusing on water and soil sampling to determine which species are at risk due to climate change and pollution.<sup>5704</sup>

On 20 August 2020, the Minister of Northern Affairs Daniel Vandal announced that the federal government would be investing CAD18.3 million in the South Baffin Energy Management Project.<sup>5705</sup> The goal of this initiative is to improve energy efficiency and increase the availability of renewable energy in 45 buildings owned by the Government of Nunavut.<sup>5706</sup> Additionally, these efforts are to help encourage decreased emissions in the North and emphasize clean living habits.<sup>5707</sup>

On 21 August 2020, the Minister of Immigration, Refugees and Citizenship Marco E.L. Mendicino announced federal funding of CAD1.1 million for the City of Toronto with the aim of reducing emissions from ambulances and emergency response vehicles.<sup>5708</sup> The funding will be used to equip

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<sup>5701</sup> Finland, Canada, and the Netherlands join forces to advance their circular economy as key to a sustainable recovery, Environment and Climate Change Canada (Gatineau) 25 June 2020. Date Accessed: 18 July 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/06/finland-canada-and-the-netherlands-join-forces-to-advance-the-circular-economy-as-key-to-a-sustainable-recovery.html>

<sup>5702</sup> Finland, Canada, and the Netherlands join forces to advance their circular economy as key to a sustainable recovery, Environment and Climate Change Canada (Gatineau) 25 June 2020. Date Accessed: 18 July 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/06/finland-canada-and-the-netherlands-join-forces-to-advance-the-circular-economy-as-key-to-a-sustainable-recovery.html>

<sup>5703</sup> The Government of Canada announces funding for local projects to protect Great Lakes, Environment and Climate Change Canada (Gatineau) 7 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/the-government-of-canada-announces-funding-for-local-projects-to-protect-great-lakes.html>

<sup>5704</sup> The Government of Canada announces funding for local projects to protect Great Lakes, Environment and Climate Change Canada (Gatineau) 7 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/the-government-of-canada-announces-funding-for-local-projects-to-protect-great-lakes.html>

<sup>5705</sup> Government of Canada partners with Nunavut for renewable and energy-efficiency projects, Environment and Climate Change Canada (Iqaluit) 20 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/government-of-canada-partners-with-nunavut-for-renewable-and-energy-efficiency-projects.html>

<sup>5706</sup> Government of Canada partners with Nunavut for renewable and energy-efficiency projects, Environment and Climate Change Canada (Iqaluit) 20 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/government-of-canada-partners-with-nunavut-for-renewable-and-energy-efficiency-projects.html>

<sup>5707</sup> Government of Canada partners with Nunavut for renewable and energy-efficiency projects, Environment and Climate Change Canada (Iqaluit) 20 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/government-of-canada-partners-with-nunavut-for-renewable-and-energy-efficiency-projects.html>

<sup>5708</sup> Government of Canada supports innovative climate action by the City of Toronto, Environment and Climate Change Canada (Toronto) 21 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/government-of-canada-supports-innovative-climate-action-by-the-city-of-toronto.html>

215 ambulances and 60 response units with solar panel roofing to improve energy efficiency and reduce greenhouse gas emissions.<sup>5709</sup>

On 24 August 2020, Minister Wilkinson announced federal funding of CAD1.1 million to support energy-efficiency initiatives in Lumsden, Saskatchewan.<sup>5710</sup> The town will use this funding to install solar panels on municipal buildings, an effort to help them reach the goal of 100 per cent net-zero-emissions.<sup>5711</sup>

On 25 August 2020, Minister Wilkinson announced federal funding of CAD2 million to support emission reduction initiatives in the City of Calgary.<sup>5712</sup> The city's biomass production and carbon sequestration project will use the funds to plant 300 hectares of trees at the city's willow plantation over the span of three years.<sup>5713</sup>

On 16 September 2020, Minister Wilkinson announced federal funding of CAD12 million to fund 164 different projects to increase sustainability and climate change resiliency in Saskatchewan schools.<sup>5714</sup> The projects will work towards this goal by using the funds to install insulated windows, utilizing LED lights, and energy efficient heating and cooling systems as well as other adjustments to reduce emissions.<sup>5715</sup>

On 17 September 2020, the Parliamentary Secretary to the Minister of Environment and Climate Change, Terry Duguid, announced federal funding of CAD5 million for 127 projects to increase the

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<sup>5709</sup> Government of Canada supports innovative climate action by the City of Toronto, Environment and Climate Change Canada (Toronto) 21 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/government-of-canada-supports-innovative-climate-action-by-the-city-of-toronto.html>

<sup>5710</sup> Government of Canada investing in solar panels in Lumsden, Saskatchewan, Environment and Climate Change Canada (Lumsden) 24 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/government-of-canada-investing-in-solar-panels-in-lumsden-saskatchewan.html>

<sup>5711</sup> Government of Canada investing in solar panels in Lumsden, Saskatchewan, Environment and Climate Change Canada (Lumsden) 24 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/government-of-canada-investing-in-solar-panels-in-lumsden-saskatchewan.html>

<sup>5712</sup> Government of Canada reducing emissions in Calgary by expanding the willow plantation, Environment and Climate Change Canada (Calgary) 25 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/government-of-canada-reducing-emissions-in-calgary-by-expanding-the-willow-plantation.html>

<sup>5713</sup> Government of Canada reducing emissions in Calgary by expanding the willow plantation, Environment and Climate Change Canada (Calgary) 25 August 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/08/government-of-canada-reducing-emissions-in-calgary-by-expanding-the-willow-plantation.html>

<sup>5714</sup> Over 160 Energy Efficiency projects set to move ahead for schools in Saskatchewan thanks to carbon pollution pricing proceeds, Environment and Climate Change Canada (Ottawa) 16 September 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/09/over-160-energy-efficiency-projects-set-to-move-ahead-for-schools-in-saskatchewan-thanks-to-carbon-pollution-pricing-proceeds.html>

<sup>5715</sup> Over 160 Energy Efficiency projects set to move ahead for schools in Saskatchewan thanks to carbon pollution pricing proceeds, Environment and Climate Change Canada (Ottawa) 16 September 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/09/over-160-energy-efficiency-projects-set-to-move-ahead-for-schools-in-saskatchewan-thanks-to-carbon-pollution-pricing-proceeds.html>

sustainability and climate resiliency of Manitoba schools.<sup>5716</sup> These projects will work towards this goal by upgrading insulation and lighting to more energy efficient alternatives.<sup>5717</sup>

On 17 September 2020, Minister Wilkinson announced that the Government of Canada is creating a new Climate Action and Awareness fund.<sup>5718</sup> CAD206 million will be invested in various projects to reduce emissions throughout the country and mitigate the risks of climate change.<sup>5719</sup> It will do this by educating youth to take climate leadership and increasing climate research.<sup>5720</sup>

On 9 October 2020, the Government of Canada announced it will be providing CAD 640,000 from the Low Carbon Economy Fund to assist the University of Guelph's heating system upgrades in order to reduce emissions.<sup>5721</sup> The upgrades will allow for the reduction of 62,000 tonnes of greenhouse gas emissions.<sup>5722</sup>

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

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<sup>5716</sup> Over 120 Energy Efficiency projects set to move ahead for schools in Manitoba thanks t carbon pollution pricing proceeds, Environment and Climate Change Canada (Ottawa) 17 September 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/09/over-120-energy-efficiency-projects-set-to-move-ahead-for-schools-in-manitoba-thanks-to-carbon-pollution-pricing-proceeds.html>

<sup>5717</sup> Over 120 Energy Efficiency projects set to move ahead for schools in Manitoba thanks t carbon pollution pricing proceeds, Environment and Climate Change Canada (Ottawa) 17 September 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/09/over-120-energy-efficiency-projects-set-to-move-ahead-for-schools-in-manitoba-thanks-to-carbon-pollution-pricing-proceeds.html>

<sup>5718</sup> New \$206 million Climate Action and Awareness Fund to support youth, scientists, and researchers across Canada, Environment and Climate Change Canada (Vancouver) 17 September 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/09/new-206-million-climate-action-and-awareness-fund-to-support-youth-scientists-and-researchers-across-canada.html>

<sup>5719</sup> New \$206 million Climate Action and Awareness Fund to support youth, scientists, and researchers across Canada, Environment and Climate Change Canada (Vancouver) 17 September 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/09/new-206-million-climate-action-and-awareness-fund-to-support-youth-scientists-and-researchers-across-canada.html>

<sup>5720</sup> New \$206 million Climate Action and Awareness Fund to support youth, scientists, and researchers across Canada, Environment and Climate Change Canada (Vancouver) 17 September 2020. Date Accessed: 25 September 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/09/new-206-million-climate-action-and-awareness-fund-to-support-youth-scientists-and-researchers-across-canada.html>

<sup>5721</sup> Government of Canada reducing emissions at the University of Guelph by upgrading the campus heating system, Government of Canada (Ottawa) 9 October 2020. Access Date: 16 November 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/10/government-of-canada-reducing-emissions-at-the-university-of-guelph-by-upgrading-the-campus-heating-system.html>

<sup>5722</sup> Government of Canada reducing emissions at the University of Guelph by upgrading the campus heating system, Government of Canada (Ottawa) 9 October 2020. Access Date: 16 November 2020. <https://www.canada.ca/en/environment-climate-change/news/2020/10/government-of-canada-reducing-emissions-at-the-university-of-guelph-by-upgrading-the-campus-heating-system.html>

**China: +1**

China has fully 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 combat climate change. First, 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.”<sup>5723</sup> 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. Second, China proposed to address social and political drivers through the “Climate Action Targets for 2020 and 2030.”<sup>5724</sup> 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.”<sup>5725</sup> Third, China recognizes and supports youth and mobilization as proponents for climate change efforts.<sup>5726</sup> Fourth, 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.<sup>5727</sup> Fifth, it will focus on industrial transformation by “strengthening energy efficiency and reducing greenhouse gas emissions.”<sup>5728</sup> Sixth, 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.<sup>5729</sup> Seventh, 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.<sup>5730</sup> Eighth, 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

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<sup>5723</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

<sup>5724</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

<sup>5725</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

<sup>5726</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

<sup>5727</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

<sup>5728</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

<sup>5729</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

<sup>5730</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

more on adaptation technologies.”<sup>5731</sup> Last, China calls commits to and calls on other nations to commit USD100 billion every year from 2020 onward to help developing nations address climate change.<sup>5732</sup>

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.”<sup>5733</sup> 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.<sup>5734</sup> Additionally, the BASIC group encouraged funding to the Green Climate Fund to support developing countries as they adapt.<sup>5735</sup> The Green Climate Fund sets out to “help developing countries reduce their greenhouse gas emissions and enhance their ability to respond to climate change.”<sup>5736</sup>

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.”<sup>5737</sup> 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.<sup>5738</sup>

On 6 November 2019, President Xi Jinping stated jointly with French President Emmanuel Macron that they confirm their support of the Paris Agreement.<sup>5739</sup>

On 22 June 2020, China announced a cap on its annual energy usage at 5 billion tonnes of coal per year.<sup>5740</sup> The percentage of energy used that uses coal was declared to be 57.5 percent, a decrease of 0.2 percent from 2019 and 1.7 percent from 2018.<sup>5741</sup>

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<sup>5731</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

<sup>5732</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

<sup>5733</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5734</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5735</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5736</sup> About GCF, Green Climate Fund (Songdo). Access Date: 3 April 2020.

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

<sup>5737</sup> 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](http://english.mee.gov.cn/News_service/media_news/202001/t20200103_756697.shtml)

<sup>5738</sup> 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](http://english.mee.gov.cn/News_service/news_release/201909/t20190917_734051.shtml)

<sup>5739</sup> 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-idUSKBN1XGOQJ>

On 22 September 2020 at the 75th United Nations General Assembly's general debate, President Xi Jinping of China declared that China will enlarge its Nationally Determined Contributions of the Paris Agreement.<sup>5742</sup> Specifically, he announced that China will reach maximum carbon dioxide emissions by 2030 and become carbon neutral by 2060.<sup>5743</sup>

China has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development. It has strived to foster innovation in a wide range of areas for low emissions through its promotion of green technology and carbon offsets at the UN Climate Summit, its support for the Paris Agreement and goal of reaching carbon neutrality by 2060, and its cap on coal emissions. Further, it has strived to foster innovation in a wide range of areas for resilient development through its enhancement of monitoring systems, participation in the Green Climate Fund, and the creation of red lines.

Thus, China receives a score of +1.

*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.<sup>5744</sup>

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.<sup>5745</sup>

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

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<sup>5740</sup> China to cap 2020 energy use at 5 billion tonnes of coal equivalent, Xinhua Net (Beijing) 22 June 2020. Access Date: 27 July 2020. [http://www.xinhuanet.com/english/2020-06/22/c\\_139158571.html](http://www.xinhuanet.com/english/2020-06/22/c_139158571.html)

<sup>5741</sup> China to cap 2020 energy use at 5 billion tonnes of coal equivalent, Xinhua Net (Beijing) 22 June 2020. Access Date: 27 July 2020. [http://www.xinhuanet.com/english/2020-06/22/c\\_139158571.html](http://www.xinhuanet.com/english/2020-06/22/c_139158571.html)

<sup>5742</sup> 'Enhance solidarity' to fight COVID-19, Chinese President urges, also pledges carbon neutrality by 2060, UN News (Geneva). Access Date: 23 August 2020. <https://news.un.org/en/story/2020/09/1073052>

<sup>5743</sup> 'Enhance solidarity' to fight COVID-19, Chinese President urges, also pledges carbon neutrality by 2060, UN News (Geneva). Access Date: 23 August 2020. <https://news.un.org/en/story/2020/09/1073052>

<sup>5744</sup> 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>

<sup>5745</sup> 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](https://ec.europa.eu/regional_policy/en/projects/france/down-to-earth-collaboration-in-france-and-england-for-low-carbon-sustainable-houses)

is achievable through risk planning, reduction of building vulnerability and should disaster occur, better construction and reconstruction.<sup>5746</sup>

On 6 November 2019, French President Emmanuel Macron stated jointly with Chinese President Xi Jinping that they confirm their support of the Paris Agreement.<sup>5747</sup>

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.”<sup>5748</sup> Borne states that the development of protected areas and preservation of forests will assist in the fight against global warming.<sup>5749</sup>

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.<sup>5750</sup>

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.<sup>5751</sup>

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.<sup>5752</sup>

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

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<sup>5746</sup> 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>

<sup>5747</sup> 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>

<sup>5748</sup> 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>

<sup>5749</sup> 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>

<sup>5750</sup> 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>

<sup>5751</sup> 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>

<sup>5752</sup> 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>

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.”<sup>5753</sup>

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.<sup>5754</sup>

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.<sup>5755</sup>

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.<sup>5756</sup>

On 23 April 2020, France published an energy plan with checkpoints at 2023 and 2028. The plan decrees “20.1 GW of renewables generation capacity in 2023 and 44 GW by 2028.”<sup>5757</sup> The objective is to make green hydrogen account for 10 per cent of the industrial mix for 2021 and approximately 20 to 40 per cent within five years. Additionally, there will be a focus on electromobility, with the goal of having three million electric vehicles in 2028.<sup>5758</sup>

On 9 June 2020, France pledged EUR1.5 billion to the development of a carbon-neutral airplane by 2035.<sup>5759</sup> This funding is part of a national plan for the improvement of the aviation industry after and during the COVID-19 pandemic.<sup>5760</sup>

On 10 June 2020, the Climate Risk and Early Warning Systems Initiative’s member states (Australia, Canada, France, Germany, Luxembourg, Netherlands, Switzerland and the United Kingdom) announced USD4.8 million for “the delivery of early warning systems and services” to the Pacific

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<sup>5753</sup> 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/>

<sup>5754</sup> 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-solaire.gouv.fr/fermeture-centrale-fessenheim>

<sup>5755</sup> 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-solaire.gouv.fr/electricite-baisse-6-des-emissions-francaises-co2-en-2019>

<sup>5756</sup> Launch of the Resilient Buildings trophies, Ministry of Ecology and Inclusive Transition (Paris) 25 March 2020. Access Date: 3 April 2020. <https://www.ecologique-solaire.gouv.fr/lancement-des-trophees-batiments-resilients>

<sup>5757</sup> France makes 44 GW solar target official, pv magazine (Berlin) 23 April 2020. Access Date: 27 July 2020. <https://www.pv-magazine.com/2020/04/23/france-makes-2028-solar-target-official/>

<sup>5758</sup> France makes 44 GW solar target official, pv magazine (Berlin) 23 April 2020. Access Date: 27 July 2020. <https://www.pv-magazine.com/2020/04/23/france-makes-2028-solar-target-official/>

<sup>5759</sup> France pumps €1.5bn into building 'carbon neutral plane' by 2035, The Telegraph (London) 9 June 2020. Access Date: July 27, 2020. <https://www.telegraph.co.uk/news/2020/06/09/france-pumps-15bn-building-carbon-neutral-plane-2035/>

<sup>5760</sup> France pumps €1.5bn into building 'carbon neutral plane' by 2035, The Telegraph (London) 9 June 2020. Access Date: July 27, 2020. <https://www.telegraph.co.uk/news/2020/06/09/france-pumps-15bn-building-carbon-neutral-plane-2035/>

region. The objective of these systems and services was to protect residents from severe weather.<sup>5761</sup> These systems and services are intended to allow for proactivity by making forecasting possible.<sup>5762</sup>

On 21 June 2020, the Citizens' Convention on Climate in Paris was completed and 149 proposals detailing the reduction of greenhouse gas emissions was passed to the French government by 150 citizens, as an initiative to increase direct democracy.<sup>5763</sup> Of the 149 proposals, 146 were retained by President Macron.<sup>5764</sup>

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 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.<sup>5765</sup>

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 carbon dioxide emissions by 55 per cent by 2030 and achieving greenhouse gas neutrality by 2050.<sup>5766</sup>

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

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<sup>5761</sup> Financing increased for early warning systems in Small Island Developing States, CREWS Initiative (Geneva) 10 June 2020. Access Date: 27 July 2020. <https://www.crews-initiative.org/en/news/financing-increased-early-warning-systems-small-island-developing-states>

<sup>5762</sup> Financing increased for early warning systems in Small Island Developing States, CREWS Initiative (Geneva) 10 June 2020. Access Date: 27 July 2020. <https://www.crews-initiative.org/en/news/financing-increased-early-warning-systems-small-island-developing-states>

<sup>5763</sup> France reveals first measures to combat climate change, The Local (Stockholm) 28 July 2020. Access Date: 20 September 2020. <https://www.thelocal.fr/20200728/france-reveals-first-measures-to-combat-climate-change>

<sup>5764</sup> France reveals first measures to combat climate change, The Local (Stockholm) 28 July 2020. Access Date: 20 September 2020. <https://www.thelocal.fr/20200728/france-reveals-first-measures-to-combat-climate-change>

<sup>5765</sup> 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/>

<sup>5766</sup> 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>

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.”<sup>5767</sup>

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.<sup>5768</sup>

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 conserve and restore tropical forests.”<sup>5769</sup> The goal is to encourage protection of forests that trap greenhouse gases.<sup>5770</sup>

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 carbon dioxide 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.<sup>5771</sup>

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.”<sup>5772</sup>

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

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<sup>5767</sup> 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/>

<sup>5768</sup> 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/>

<sup>5769</sup> 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/>

<sup>5770</sup> 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/>

<sup>5771</sup> 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/>

<sup>5772</sup> 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/>

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.”<sup>5773</sup>

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.”<sup>5774</sup> The Facility “aims to unlock private sector investment that fosters climate activities of small and medium-sized enterprises in CwA [Compact with Africa] countries.”<sup>5775</sup>

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.”<sup>5776</sup>

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.<sup>5777</sup>

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.”<sup>5778</sup>

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

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<sup>5773</sup> 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/>

<sup>5774</sup> 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/>

<sup>5775</sup> 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/>

<sup>5776</sup> 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/>

<sup>5777</sup> 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/>

<sup>5778</sup> 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/>

securing water supply and switching to drought-resistant farming methods in agriculture” in developing countries.<sup>5779</sup> The goal is help developing countries adapt to climate change.<sup>5780</sup>

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.”<sup>5781</sup> The goal is to aid Colombia in preserving and restoring forests.<sup>5782</sup>

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.”<sup>5783</sup> The goal is to promote low-emission agriculture and climate change adaptation.<sup>5784</sup>

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.<sup>5785</sup>

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.<sup>5786</sup>

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

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<sup>5779</sup> 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/>

<sup>5780</sup> 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/>

<sup>5781</sup> 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/>

<sup>5782</sup> 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/>

<sup>5783</sup> 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/>

<sup>5784</sup> 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/>

<sup>5785</sup> 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>

<sup>5786</sup> 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>.

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.<sup>5787</sup>

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.”<sup>5788</sup>

On 13 February 2020, Germany, along with Austria, France, 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.”<sup>5789</sup>

On 10 June 2020, the Climate Risk and Early Warning Systems Initiative’s member states (Australia, Canada, France, Germany, Luxembourg, Netherlands, Switzerland and the United Kingdom) announced USD4.8 million for “the delivery of early warning systems and services” to the Pacific region. The objective of these systems and services was to protect residents from severe weather.<sup>5790</sup> These systems and services are intended to allow for proactivity by making forecasting possible.<sup>5791</sup>

On 29 June 2020, Germany passed the Coronavirus Tax Assistance Act with EUR50 billion invested in low-emission technologies.<sup>5792</sup> The stimulus would serve to subsidize electrical and low-emission vehicles, modernize the railway system, develop hydrogen technology, expand solar and wind power and fund the CO2 building renovation programme.<sup>5793</sup> The goal is to promote sustainable mobility and low-carbon development as part of the economic recovery strategy.<sup>5794</sup>

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<sup>5787</sup> 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>

<sup>5788</sup> 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/>

<sup>5789</sup> 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/>

<sup>5790</sup> Financing increased for early warning systems in Small Island Developing States, CREWS Initiative (Geneva) 10 June 2020. Access Date: 27 July 2020. <https://www.crews-initiative.org/en/news/financing-increased-early-warning-systems-small-island-developing-states>

<sup>5791</sup> Financing increased for early warning systems in Small Island Developing States, CREWS Initiative (Geneva) 10 June 2020. Access Date: 27 July 2020. <https://www.crews-initiative.org/en/news/financing-increased-early-warning-systems-small-island-developing-states>

<sup>5792</sup> Emerging from the crisis with full strength, Federal Ministry of Finance (Berlin) 29 June 2020. Access Date: 1 August 2020. <https://www.bundesfinanzministerium.de/Content/EN/Standardartikel/Topics/Public-Finances/Articles/2020-06-04-fiscal-package.html>

<sup>5793</sup> Emerging from the crisis with full strength, Federal Ministry of Finance (Berlin) 29 June 2020. Access Date: 1 August 2020. <https://www.bundesfinanzministerium.de/Content/EN/Standardartikel/Topics/Public-Finances/Articles/2020-06-04-fiscal-package.html>

<sup>5794</sup> Emerging from the crisis with full strength, Federal Ministry of Finance (Berlin) 29 June 2020. Access Date: 1 August 2020. <https://www.bundesfinanzministerium.de/Content/EN/Standardartikel/Topics/Public-Finances/Articles/2020-06-04-fiscal-package.html>

On 1 July 2020, Germany assumed the Presidency of the Council of the European Union and promised to make all events under its presidency climate neutral.<sup>5795</sup> That includes the selection of venue based on sustainability criteria, serving exclusively vegetarian catering and offsetting unavoidable greenhouse gas emissions from participants' travel through the purchase of carbon credits.<sup>5796</sup> The goal is “to take action that is in line with Germany’s political advocacy for sustainable and climate-neutral lifestyles and economies.”<sup>5797</sup>

On 1 July 2020, the German Environment Agency assumed chairmanship of the Baltic Marine Environment Protection Commission — Helsinki Commission.<sup>5798</sup> Germany aims to strengthen marine protection, including against the effects of climate change and to explore the potential of ecosystems as natural carbon sinks.<sup>5799</sup> The goal is to “make progress on marine protection and climate issues.”<sup>5800</sup>

On 5 July 2020, Germany’s parliament passed the Coal Phase-out Act to end coal-fired power generation by 2038.<sup>5801</sup> The Act prohibits putting new hard coal or lignite power plants into service, sets out a shutdown schedule for lignite power plants and provides EUR40 billion worth of compensation payments.<sup>5802</sup> The goal is to cut carbon emission from coal-powered plants and replace them with cleaner energy sources.<sup>5803</sup>

On 17 July 2020, the Federal Environment Ministry adopted a support package to provide EUR68 million from the International Climate Initiative to 25 developing and newly industrialized economies. This fund “supports relief for protected areas and biodiversity hotspots, promotes a climate-friendly economic recovery and increases resilience against future pandemics.”<sup>5804</sup> Concrete measures include safeguarding non-polluting jobs in protected areas and covering expenses for

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<sup>5795</sup> Germany’s Council Presidency will be climate neutral and sustainable, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 17 July 2020. Access Date: 1 August 2020.

<https://www.bmu.de/en/pressrelease/germanys-council-presidency-will-be-climate-neutral-and-sustainable/>

<sup>5796</sup> Germany’s Council Presidency will be climate neutral and sustainable, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 17 July 2020. Access Date: 1 August 2020.

<https://www.bmu.de/en/pressrelease/germanys-council-presidency-will-be-climate-neutral-and-sustainable/>

<sup>5797</sup> Germany’s Council Presidency will be climate neutral and sustainable, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 17 July 2020. Access Date: 1 August 2020.

<https://www.bmu.de/en/pressrelease/germanys-council-presidency-will-be-climate-neutral-and-sustainable/>

<sup>5798</sup> Germany assumes chairmanship of Baltic Marine Environment Protection Commission (HELCOM), German Environment Agency (Dessau-Roßlau) 2 July 2020. Access Date: 1 August 2020.

<https://www.umweltbundesamt.de/en/press/pressinformation/germany-assumes-chairmanship-of-baltic-marine>

<sup>5799</sup> Germany assumes chairmanship of Baltic Marine Environment Protection Commission (HELCOM), German Environment Agency (Dessau-Roßlau) 2 July 2020. Access Date: 1 August 2020.

<https://www.umweltbundesamt.de/en/press/pressinformation/germany-assumes-chairmanship-of-baltic-marine>

<sup>5800</sup> Germany assumes chairmanship of Baltic Marine Environment Protection Commission (HELCOM), German Environment Agency (Dessau-Roßlau) 2 July 2020. Access Date: 1 August 2020.

<https://www.umweltbundesamt.de/en/press/pressinformation/germany-assumes-chairmanship-of-baltic-marine>

<sup>5801</sup> Spelling out the coal exit – Germany’s phase-out plan, Clean Energy Wire (Berlin) 3 July 2020. Access Date: 1 August 2020. <https://www.cleanenergywire.org/factsheets/spelling-out-coal-phase-out-germanys-exit-law-draft>.

<sup>5802</sup> Spelling out the coal exit – Germany’s phase-out plan, Clean Energy Wire (Berlin) 3 July 2020. Access Date: 1 August 2020. <https://www.cleanenergywire.org/factsheets/spelling-out-coal-phase-out-germanys-exit-law-draft>.

<sup>5803</sup> Spelling out the coal exit – Germany’s phase-out plan, Clean Energy Wire (Berlin) 3 July 2020. Access Date: 1 August 2020. <https://www.cleanenergywire.org/factsheets/spelling-out-coal-phase-out-germanys-exit-law-draft>.

<sup>5804</sup> Global green recovery and the International Climate Initiative, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 17 July 2020. Access Date: 1 August 2020.

<https://www.bmu.de/en/pressrelease/global-green-recovery-and-the-international-climate-initiative/>.

economic advisers to anchor climate action in recovery programmes.<sup>5805</sup> The goal is to support climate-conscious economic recovery in partner countries.<sup>5806</sup>

On 29 July 2020, Germany signed a grant to provide EUR58.4 million to finance renewable energy, agriculture and rural development in Uganda. The funds will be invested in initiatives supporting Uganda's implementation of its National Development Plan III, the United Nation's Agenda 2030 and the Agenda 2063 of the African Union. The goal is to continue the promotion of renewable and efficient energy in Uganda.<sup>5807</sup>

On 31 July 2020, Germany signed an agreement to allocate a EUR170 million loan and EUR28.5 million grant to Georgia.<sup>5808</sup> The funds support the development of sustainable urban mobility, energy efficiency, utility infrastructure for environment and tourism, biodiversity and sustainable local development in Georgia.<sup>5809</sup>

On 24 September 2020, the Nationally Appropriate Mitigation Action Facility announced EUR168 million in funding for the Euros Ambition Initiative, in which both the United Kingdom and Germany contributed.<sup>5810</sup> The goal of this initiative is to contribute to global green recovery efforts and work towards carbon neutrality.<sup>5811</sup> This can be achieved through methods such as investment in electric vehicles, carbon-low farming practices and an increase of energy efficiency in the housing sector.<sup>5812</sup>

On 7 October 2020, the Ministry of Environment and Sustainable Development met outline plans for the initial phase of the International Climate Initiative.<sup>5813</sup> It is a five-year, EUR 15 million

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<sup>5805</sup> Global green recovery and the International Climate Initiative, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 17 July 2020. Access Date: 1 August 2020.

<https://www.bmu.de/en/pressrelease/global-green-recovery-and-the-international-climate-initiative/>.

<sup>5806</sup> Global green recovery and the International Climate Initiative, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 17 July 2020. Access Date: 1 August 2020.

<https://www.bmu.de/en/pressrelease/global-green-recovery-and-the-international-climate-initiative/>.

<sup>5807</sup> Germany gives Uganda UGX 254b for energy, agriculture and governance, The Independent (Kampala) 30 July 2020. Access Date: 1 August 2020. <https://www.independent.co.ug/germany-gives-uganda-ugx-254b-for-energy-agriculture-and-governance/>

<sup>5808</sup> Germany allocates €200mIn to Georgia for mobility, energy, infrastructure and biodiversity projects, Agenda.GE (Tbilisi) 31 July 2020. Access Date: 1 August 2020. <https://agenda.ge/en/news/2020/2417>

<sup>5809</sup> Germany allocates €200mIn to Georgia for mobility, energy, infrastructure and biodiversity projects, Agenda.GE (Tbilisi) 31 July 2020. Access Date: 1 August 2020. <https://agenda.ge/en/news/2020/2417>

<sup>5810</sup> NAMA Facility responds to a global green recovery with its largest-ever funding for a new "Ambition Initiative," Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 24 September 2020. Access Date: 9 October 2020. <https://www.bmu.de/en/pressrelease/nama-facility-responds-to-a-global-green-recovery-with-its-largest-ever-funding-for-a-new-ambition/>

<sup>5811</sup> NAMA Facility responds to a global green recovery with its largest-ever funding for a new "Ambition Initiative," Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 24 September 2020. Access Date: 9 October 2020. <https://www.bmu.de/en/pressrelease/nama-facility-responds-to-a-global-green-recovery-with-its-largest-ever-funding-for-a-new-ambition/>

<sup>5812</sup> NAMA Facility responds to a global green recovery with its largest-ever funding for a new "Ambition Initiative," Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 24 September 2020. Access Date: 9 October 2020. <https://www.bmu.de/en/pressrelease/nama-facility-responds-to-a-global-green-recovery-with-its-largest-ever-funding-for-a-new-ambition/>

<sup>5813</sup> A climate initiative proposal with German funding started, Ministry of Environment and Sustainable Development (Buenos Aires) 7 October 2020. Access Date: 15 November 2020. <https://www.argentina.gob.ar/noticias/se-inicio-una-propuesta-de-iniciativa-climatica-con-financiamiento-aleman>

initiative, sponsored by Germany, that will aim to address numerous areas of climate change.<sup>5814</sup> These areas include “forests and landscape restoration; resource efficiency, sustainable mobility; and climate governance, cooperation and sustainable finance” within 60 developing countries.<sup>5815</sup>

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.<sup>5816</sup>

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.<sup>5817</sup>

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.<sup>5818</sup>

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

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<sup>5814</sup> A climate initiative proposal with German funding started, Ministry of Environment and Sustainable Development (Buenos Aires) 7 October 2020. Access Date: 15 November 2020. <https://www.argentina.gob.ar/noticias/se-inicio-una-propuesta-de-iniciativa-climatica-con-financiamiento-aleman>

<sup>5815</sup> A climate initiative proposal with German funding started, Ministry of Environment and Sustainable Development (Buenos Aires) 7 October 2020. Access Date: 15 November 2020. <https://www.argentina.gob.ar/noticias/se-inicio-una-propuesta-de-iniciativa-climatica-con-financiamiento-aleman>

<sup>5816</sup> 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>

<sup>5817</sup> 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>

<sup>5818</sup> 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>

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."<sup>5819</sup>

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 (UNFCCC), 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."<sup>5820</sup> 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.<sup>5821</sup> Additionally, the BASIC group encouraged funding to the Green Climate Fund to support developing countries as they adapt.<sup>5822</sup> The Green Climate Fund sets out to "help developing countries reduce their greenhouse gas emissions and enhance their ability to respond to climate change."<sup>5823</sup>

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.<sup>5824</sup>

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.<sup>5825</sup>

In 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.<sup>5826</sup>

On 20 March 2020, the United Kingdom was announced as the first co-chair of the governing council to India's Coalition for Disaster-Resilient Infrastructure.<sup>5827</sup> The body was established by

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<sup>5819</sup> 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/>

<sup>5820</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5821</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5822</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5823</sup> About GCF, Green Climate Fund (Songdo). Access Date: 3 April 2020. <https://www.greenclimate.fund/about/contact>

<sup>5824</sup> 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>

<sup>5825</sup> 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>

<sup>5826</sup> 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>

<sup>5827</sup> UK confirmed as first co-chair of India-led climate change initiative, the Economic Times (Mumbai) 21 March 2020. Access Date: 24 July 2020. <https://energy.economictimes.indiatimes.com/news/renewable/uk-confirmed-as-first-co-chair-of-india-led-climate-change-initiative/74744751>

Prime Minister Narendra Modi and consists of an international group, joining governments, UN agencies, banks, private sector groups and academia to develop resilient infrastructure systems able to withstand climate and disaster risks.<sup>5828</sup> As part of UK-India combined efforts, the nations have launched a joint venture between UK's EO Charging and India's Yahvi Enterprises, which are set to deliver charging infrastructure for electric vehicles across India. Through the Mahatma Gandhi National Rural Employment Act, the UK has also begun the construction of "flood defences and river structures to encourage aquifer replenishment."<sup>5829</sup> India and the UK have also jointly committed GBP240 million towards capital in the Green Growth Equity Fund, which is expected to finance Ayana Renewable Power's development of 800MW in solar power capacity.<sup>5830</sup>

On 7 July 2020, the Honourable Minister of State for the Environment, Forest, and Climate Change stated his intent to successfully implement climate actions including "renewable energy expansion, energy efficiency measures [and] policy incentives for e-vehicles."<sup>5831</sup> He furthermore implored the country parties to comply with the environmental commitments made under the UNFCCC and the Paris Agreement.<sup>5832</sup>

India has fully complied with its commitment to foster innovation in a wide range of areas for low emissions though 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*

### **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

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<sup>5828</sup> UK confirmed as first co-chair of India-led climate change initiative, the Economic Times (Mumbai) 21 March 2020. Access Date: 24 July 2020. <https://energy.economictimes.indiatimes.com/news/renewable/uk-confirmed-as-first-co-chair-of-india-led-climate-change-initiative/74744751>

<sup>5829</sup> UK confirmed as first co-chair of India-led climate change initiative, the Economic Times (Mumbai) 21 March 2020. Access Date: 24 July 2020. <https://energy.economictimes.indiatimes.com/news/renewable/uk-confirmed-as-first-co-chair-of-india-led-climate-change-initiative/74744751>

<sup>5830</sup> UK confirmed as first co-chair of India-led climate change initiative, the Economic Times (Mumbai) 21 March 2020. Access Date: 24 July 2020. <https://energy.economictimes.indiatimes.com/news/renewable/uk-confirmed-as-first-co-chair-of-india-led-climate-change-initiative/74744751>

<sup>5831</sup> July 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) 13 August 2020. Access Date: 25 September 2020. <http://moef.gov.in/wp-content/uploads/2017/06/DOC081420-08142020144851.pdf>

<sup>5832</sup> July 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) 13 August 2020. Access Date: 25 September 2020. <http://moef.gov.in/wp-content/uploads/2017/06/DOC081420-08142020144851.pdf>

power plants by 2022 in order to create up to 234 megawatts of electricity using 16,000 tons of waste a day.<sup>5833</sup>

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.<sup>5834</sup>

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.<sup>5835</sup>

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.<sup>5836</sup>

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.<sup>5837</sup>

On 27 August 2020, Siti Nurbaya Bakar, Indonesian Environment and Forestry Minister, announced that the country had received a USD103.8 million cash injection from the United Nation's Green Climate Fund. The goal is to support the country to reduce carbon emissions and prevent deforestation by controlling forest fires.<sup>5838</sup>

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*

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<sup>5833</sup> 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>

<sup>5834</sup> 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>

<sup>5835</sup> 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>

<sup>5836</sup> 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>

<sup>5837</sup> 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-idUSKBN1YR0D2>

<sup>5838</sup> Indonesia gets U.N. funds to fight climate change, deforestation, Siti Nurbaya Bakar, Minister of Forestry and Environment (Jakarta) 27 August 2020. Access Date: 27 September 2020. <https://www.reuters.com/article/us-indonesia-environment-idUSKBN25N1BP>

## 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.<sup>5839</sup> 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.<sup>5840</sup>

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.<sup>5841</sup>

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.”<sup>5842</sup> This includes energy efficiency, conversion to renewable energies and reduction of environmental impact.<sup>5843</sup>

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.<sup>5844</sup>

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.<sup>5845</sup>

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<sup>5839</sup> 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>

<sup>5840</sup> 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>

<sup>5841</sup> 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.

<sup>5842</sup> 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>

<sup>5843</sup> 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>

<sup>5844</sup> 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>

<sup>5845</sup> 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.<sup>5846</sup>

On 22 November 2019, the Climate Decree was passed and “deemed urgent and necessary.”<sup>5847</sup> 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 carbon dioxide; 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.<sup>5848</sup>

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.<sup>5849</sup>

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.”<sup>5850</sup> This will be achieved through the continuation of their

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<sup>5846</sup> 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>

<sup>5847</sup> 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>

<sup>5848</sup> 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>

<sup>5849</sup> 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>

<sup>5850</sup> 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.<sup>5851</sup>

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.<sup>5852</sup> The purpose of this is to create eco-sustainable development.<sup>5853</sup>

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.<sup>5854</sup>

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.<sup>5855</sup>

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.”<sup>5856</sup>

On 24 April 2020, the Ministry of the Environment committed to allocating over EUR100 million for interventions aimed at improving the water quality throughout the country. The objective of the Environmental Operational Plan is to “[protect] the environment and [promote] the efficient use of resources” by monitoring and maintaining the quality of the water.<sup>5857</sup>

On 15 July 2020, the Ministry of the Environment allocated EUR100 million towards projects on sustainability to be implemented in National Parks. Among other goals, the projects are specifically

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<sup>5851</sup> 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>

<sup>5852</sup> 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>

<sup>5853</sup> 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>

<sup>5854</sup> 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>

<sup>5855</sup> 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>

<sup>5856</sup> 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>

<sup>5857</sup> Water: Costs Over 100 Million Euros for Improving the Quality of Water Bodies, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 24 April 2020. Access Date: July 10 2020. <https://www.minambiente.it/comunicati/acqua-costa-oltre-100-milioni-di-euro-il-miglioramento-della-qualita-dei-corpi-idrici>

aimed at interventions for adaptation to climate change, energy efficiency, sustainable mobility and infrastructure, forest management and prevention of forest fires.<sup>5858</sup>

On 4 September 2020, the Ministry of the Environment approved the Operational Project for the Remediation and Permanent Safety of the Caffaro Brescia plant. This project works towards environmental remediation and rehabilitation of the region, following contamination.<sup>5859</sup>

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*

### **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.<sup>5860</sup>

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.<sup>5861</sup>

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.<sup>5862</sup>

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

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<sup>5858</sup> Parks for the Climate, from Minambiente 100 Million for Sustainable Projects, Ministry of the Environment and Protection of the Territory and the Sea (Rome) 15 July 2020. Access Date: August 1 2020.

<https://www.minambiente.it/comunicati/parchi-il-clima-da-minambiente-100-mlioni-progetti-sostenibili>

<sup>5859</sup> Sin Di Brescia: The Ministry of the Environment Approves the Operational Project, Ministry of the Environment and Protection of the Territory and the Sea (Rome), 4 September 2020. Access Date: 7 September 2020.

<https://www.minambiente.it/comunicati/sin-di-brescia-il-ministero-dell-ambiente-approva-il-progetto-operativo>

<sup>5860</sup> 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>

<sup>5861</sup> 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>

<sup>5862</sup> 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>

energy by improving systems that convert synthetic gas, in the form of carbon monoxide, into hydrogen.<sup>5863</sup> 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.<sup>5864</sup>

On 30 June 2020, Japan made an announcement regarding the Synergy between Climate Action and Disaster Risk Reduction (DRR).<sup>5865</sup> It intends to “effectively promoting coordinated measures for climate change and DRR,” through four avenues.<sup>5866</sup> Firstly, there is a recognition that climate action and DRR are interrelated and both should be incorporated into policymaking.<sup>5867</sup> Secondly, there needs to be “comprehensive measures for a decarbonized and highly disaster-resilient society.”<sup>5868</sup> Thirdly, fostering awareness, preparedness and cooperation within communities.<sup>5869</sup> Fourth, promoting international cooperation.<sup>5870</sup>

On 3 September 2020, Shinjiro Koizumi, Minister of Environment, hosted a ministerial meeting with ministers and representatives from more than 65 countries as well as non-state stakeholders.<sup>5871</sup> The goal is to open up a discussion platform for sustainable recovery from COVID-19.<sup>5872</sup> The meeting concentrated on “the role of climate, financial, and environmental protection policies in fostering transition towards decarbonization, circular economy, and decentralization.”<sup>5873</sup> In order to do this, there will be a push towards green jobs, ending fossil fuel subsidies and factoring in climate risk.<sup>5874</sup>

On 9 October 2020, the Ministry of Economy, Trade and Industry announced it will be partnering with Keidanren and the New Energy and Industrial Technology Development Organization for the “Zero-Emission Challenge” in order to help investors find companies focused on decarbonization

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<sup>5863</sup> 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>

<sup>5864</sup> 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/>

<sup>5865</sup> Announcement of the Joint Message on the Synergy between Climate Action and Disaster Risk Reduction, Ministry of the Environment (Tokyo) 30 June 2020. Access Date: 9 October 2020. <https://www.env.go.jp/en/headline/2460.html>

<sup>5866</sup> Announcement of the Joint Message on the Synergy between Climate Action and Disaster Risk Reduction, Ministry of the Environment (Tokyo) 30 June 2020. Access Date: 9 October 2020. <https://www.env.go.jp/en/headline/2460.html>

<sup>5867</sup> Announcement of the Joint Message on the Synergy between Climate Action and Disaster Risk Reduction, Ministry of the Environment (Tokyo) 30 June 2020. Access Date: 9 October 2020. <https://www.env.go.jp/en/headline/2460.html>

<sup>5868</sup> Announcement of the Joint Message on the Synergy between Climate Action and Disaster Risk Reduction, Ministry of the Environment (Tokyo) 30 June 2020. Access Date: 9 October 2020. <https://www.env.go.jp/en/headline/2460.html>

<sup>5869</sup> Announcement of the Joint Message on the Synergy between Climate Action and Disaster Risk Reduction, Ministry of the Environment (Tokyo) 30 June 2020. Access Date: 9 October 2020. <https://www.env.go.jp/en/headline/2460.html>

<sup>5870</sup> Announcement of the Joint Message on the Synergy between Climate Action and Disaster Risk Reduction, Ministry of the Environment (Tokyo) 30 June 2020. Access Date: 9 October 2020. <https://www.env.go.jp/en/headline/2460.html>

<sup>5871</sup> Ministerial Launches “Platform for Redesign” to Overcome Climate Change, COVID-19, Shinjiro Koizumi, Minister of environment (Tokyo) 3 September 2020. Access Date 30 September 2020. <http://sdg.iisd.org/news/ministerial-launches-platform-for-redesign-to-overcome-climate-change-covid-19/>

<sup>5872</sup> Ministerial Launches “Platform for Redesign” to Overcome Climate Change, COVID-19, Shinjiro Koizumi, Minister of environment (Tokyo) 3 September 2020. Access Date 30 September 2020. <http://sdg.iisd.org/news/ministerial-launches-platform-for-redesign-to-overcome-climate-change-covid-19/>

<sup>5873</sup> Ministerial Launches “Platform for Redesign” to Overcome Climate Change, COVID-19, Shinjiro Koizumi, Minister of environment (Tokyo) 3 September 2020. Access Date 30 September 2020. <http://sdg.iisd.org/news/ministerial-launches-platform-for-redesign-to-overcome-climate-change-covid-19/>

<sup>5874</sup> Ministerial Launches “Platform for Redesign” to Overcome Climate Change, COVID-19, Shinjiro Koizumi, Minister of environment (Tokyo) 3 September 2020. Access Date 30 September 2020. <http://sdg.iisd.org/news/ministerial-launches-platform-for-redesign-to-overcome-climate-change-covid-19/>

innovation.<sup>5875</sup> The goal is to connect investors, experts and stakeholders with 320 companies who have agreed to participate in the Zero-Emission Challenge.<sup>5876</sup>

Japan has partially complied with its commitment to foster innovation in a wide range of areas for low emissions and resilient development. It has strived to foster innovation in 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. Further, it has strived to foster innovation in a wide range of areas for resilient development through its Strategy for Enhancing Synergy between Climate Action and Disaster Risk Reduction in the Era of Climate Crisis: Shifting from Restoring Status Quo to “Adaptive Recovery.” However, it falls short of the “wide range” threshold.

Thus, Japan receives a score of 0.

*Analyst: Dimas Bimo Radbityo*

### **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.<sup>5877</sup>

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.<sup>5878</sup>

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.<sup>5879</sup> The corporation aims to actively promote

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<sup>5875</sup> Supporting Companies in Efforts towards a Decarbonized Society, Ministry of Economy, Trade and Industry (Tokyo) 9 October 2020. Access Date: 15 November 2020. [https://www.meti.go.jp/english/press/2020/1009\\_001.html](https://www.meti.go.jp/english/press/2020/1009_001.html)

<sup>5876</sup> Supporting Companies in Efforts towards a Decarbonized Society, Ministry of Economy, Trade and Industry (Tokyo) 9 October 2020. Access Date: 15 November 2020. [https://www.meti.go.jp/english/press/2020/1009\\_001.html](https://www.meti.go.jp/english/press/2020/1009_001.html)

<sup>5877</sup> 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](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)

<sup>5878</sup> 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](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)

<sup>5879</sup> 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=>

water-related international training so that it can contribute to solving global water problems and developing water management capabilities.<sup>5880</sup>

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.<sup>5881</sup>

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 in the Southeast Asia region, and the program aims to contribute to improvements in overall water management in those countries.<sup>5882</sup>

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.<sup>5883</sup>

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.<sup>5884</sup>

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<sup>5880</sup> 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=>

<sup>5881</sup> 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=p=&multi\\_itm\\_seq=0&itm\\_seq\\_1=0&itm\\_seq\\_2=0&company\\_cd=&company\\_nm=&page=43](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)

<sup>5882</sup> 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=>

<sup>5883</sup> 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=>

<sup>5884</sup> 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=>

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.<sup>5885</sup>

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.<sup>5886</sup>

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 assistance. The government expects that such a measure could strengthen cooperation between the Australian government.<sup>5887</sup>

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.<sup>5888</sup>

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.<sup>5889</sup>

On 28 May 2020, the Ministry of Environment announced its support for the Task force on Climate-related Financial Disclosures (TCFD).<sup>5890</sup> TCFD is a consultative body developed to help G20

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<sup>5885</sup> 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](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)

<sup>5886</sup> 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=>

<sup>5887</sup> 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](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)

<sup>5888</sup> 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=>

<sup>5889</sup> 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=>

<sup>5890</sup> The Ministry of Environment declares that it is the first government agency to support the role of green finance to manage the climate crisis, Ministry of Environment (Seoul) 28 May 2020. Access Date: 30 July 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=210&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=286&orgCd=&boardId=1374140&boardMasterId=1&boardCategoryId=&decorator=>

members decide green financial investment methods to “increase resilience against external shock, such as asset diversification, in response to climate and environment risk.”<sup>5891</sup>

On 5 June 2020, the Ministry of Environment, affiliated with the Korea Water Resources Corporation, introduced hydrothermal energy to public development projects in Gyeonggi Province.<sup>5892</sup> Gyeonggi-do signed an agreement to use hydrothermal energy in an industrial complex.<sup>5893</sup> This shift of energy can improve environment since it can save approximately 89,000 MWh of energy and reduce greenhouse gas by 220,000 tons yearly.<sup>5894</sup>

On 12 July 2020, the Ministry of Environment signed a written memorandum about the promotion of research cooperation projects to improve water security of Asian countries with the Organisation for Economic Co-operation and Development and the Asian Water Commission.<sup>5895</sup> This memorandum will allow the Ministry of Environment and the Asian Water Commission will customize water management follow-up projects for each country through consultation of developing countries and support technical improvement measures.<sup>5896</sup>

On 17 July 2020, the Ministry of Environment, together with the Ministry of Trade, Industry and Energy, decided to construct eco-friendly offshore wind farm in in Jeonbuk.<sup>5897</sup> The offshore wind farm will supply eco-friendly electricity to 2.24 million households.<sup>5898</sup>

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

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<sup>5891</sup> The Ministry of Environment declares that it is the first government agency to support the role of green finance to manage the climate crisis, Ministry of Environment (Seoul) 28 May 2020. Access Date: 30 July 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=210&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=286&orgCd=&boardId=1374140&boardMasterId=1&boardCategoryId=&decorator=>

<sup>5892</sup> (Reference) Eco-friendly hydrothermal energy, expanded to Gyeonggi-do public development project, Ministry of Environment (Seoul) 5 June 2020. Access Date: 30 July 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=180&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=286&orgCd=&boardId=1376080&boardMasterId=1&boardCategoryId=&decorator=>

<sup>5893</sup> (Reference) Eco-friendly hydrothermal energy, expanded to Gyeonggi-do public development project, Ministry of Environment (Seoul) 5 June 2020. Access Date: 30 July 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=180&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=286&orgCd=&boardId=1376080&boardMasterId=1&boardCategoryId=&decorator=>

<sup>5894</sup> (Reference) Eco-friendly hydrothermal energy, expanded to Gyeonggi-do public development project, Ministry of Environment (Seoul) 5 June 2020. Access Date: 30 July 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=180&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=286&orgCd=&boardId=1376080&boardMasterId=1&boardCategoryId=&decorator=>

<sup>5895</sup> Launch of international research cooperation for water security in Asia, Ministry of Environment (Seoul) 12 July 2020. Access Date: 30 July 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=60&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=286&orgCd=&boardId=1384440&boardMasterId=1&boardCategoryId=&decorator=>

<sup>5896</sup> Launch of international research cooperation for water security in Asia, Ministry of Environment (Seoul) 12 July 2020. Access Date: 30 July 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=60&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=286&orgCd=&boardId=1384440&boardMasterId=1&boardCategoryId=&decorator=>

<sup>5897</sup> (Co-Reference) Full-scale promotion of offshore wind power (2.4GW) in the southwestern region of Jeollabuk-do, Ministry of environment (Seoul) 17 July 2020. Access Date: 30 July 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=40&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=286&orgCd=&boardId=1385760&boardMasterId=1&boardCategoryId=&decorator=>

<sup>5898</sup> (Co-Reference) Full-scale promotion of offshore wind power (2.4GW) in the southwestern region of Jeollabuk-do, Ministry of environment (Seoul) 17 July 2020. Access Date: 30 July 2020.

<http://me.go.kr/home/web/board/read.do?pagerOffset=40&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=286&orgCd=&boardId=1385760&boardMasterId=1&boardCategoryId=&decorator=>

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.<sup>5899</sup>

On 23 September 2019, President Andrés Manuel 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.<sup>5900</sup>

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.<sup>5901</sup>

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.”<sup>5902</sup>

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.”<sup>5903</sup>

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 at

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<sup>5899</sup> AMLO's return to oil, Dialogo Chino (Mexico). 11 July 2019. Access Date: 9 February 2020.

<https://dialogochino.net/28818-amlos-return-to-oil/>

<sup>5900</sup> 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>

<sup>5901</sup> 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>

<sup>5902</sup> 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>

<sup>5903</sup> 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/>

USD759 million thermal power station by the Spanish firm Fistera, the goal is to uphold his government's commitment to "tackle climate change."<sup>5904</sup>

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.<sup>5905,5906</sup>

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.<sup>5907</sup>

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 CO<sub>2</sub>. 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.<sup>5908</sup>

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.<sup>5909</sup>

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<sup>5904</sup> 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/>

<sup>5905</sup> 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/>

<sup>5906</sup> 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>

<sup>5907</sup> 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>.

<sup>5908</sup> 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/>

<sup>5909</sup> 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>

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.<sup>5910</sup>

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.”<sup>5911</sup> The goal is to fulfill the objective of “Clean Air” under the Russia’s decree “On national goals and strategic objectives of the development of the Russian Federation for the period until 2024.”<sup>5912</sup>

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.<sup>5913</sup>

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.<sup>5914</sup>

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.<sup>5915</sup> 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.<sup>5916</sup>

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<sup>5910</sup> 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>

<sup>5911</sup> 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\\_rosprirodnadzor\\_i\\_pao\\_kvadra\\_dogovorilis\\_o\\_sovmestnoy\\_realizatsii\\_p/](http://www.mnr.gov.ru/press/news/natsproekt_ekologiya_v_regionakh_rosprirodnadzor_i_pao_kvadra_dogovorilis_o_sovmestnoy_realizatsii_p/)

<sup>5912</sup> 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\\_rosprirodnadzor\\_i\\_pao\\_kvadra\\_dogovorilis\\_o\\_sovmestnoy\\_realizatsii\\_p/](http://www.mnr.gov.ru/press/news/natsproekt_ekologiya_v_regionakh_rosprirodnadzor_i_pao_kvadra_dogovorilis_o_sovmestnoy_realizatsii_p/)

<sup>5913</sup> 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>

<sup>5914</sup> 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>

<sup>5915</sup> 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>

<sup>5916</sup> 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>

On 26 November 2019, Minister of Natural Resources of Russia Dmitry Kobylkin approved guidelines for “determining the background level of air pollution.”<sup>5917</sup> The background level of air pollution will be used to “determine the standard for permissible emissions of pollutants.”<sup>5918</sup>

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.<sup>5919</sup>

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.<sup>5920</sup>

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.<sup>5921</sup>

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.<sup>5922</sup> 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.”<sup>5923</sup> The goal is to “minimize the vulnerability of the Russia’s population, economy and natural resources to climate change.”<sup>5924</sup>

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 Yamet-Nenets district governor, proposed building an

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<sup>5917</sup> 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/utverzheny\\_metodicheskie\\_ukazaniya\\_po\\_opredeleniyu\\_fonovogo\\_urovnya\\_zagryazneniya\\_atmosfernogo\\_vozd/](http://www.mnr.gov.ru/press/news/utverzheny_metodicheskie_ukazaniya_po_opredeleniyu_fonovogo_urovnya_zagryazneniya_atmosfernogo_vozd/)

<sup>5918</sup> 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/utverzheny\\_metodicheskie\\_ukazaniya\\_po\\_opredeleniyu\\_fonovogo\\_urovnya\\_zagryazneniya\\_atmosfernogo\\_vozd/](http://www.mnr.gov.ru/press/news/utverzheny_metodicheskie_ukazaniya_po_opredeleniyu_fonovogo_urovnya_zagryazneniya_atmosfernogo_vozd/)

<sup>5919</sup> 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>

<sup>5920</sup> 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>

<sup>5921</sup> 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>

<sup>5922</sup> 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>

<sup>5923</sup> 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>

<sup>5924</sup> 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>

international climate research station in the Yaman-Nenets region of Siberia.<sup>5925</sup> 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.”<sup>5926</sup>

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.<sup>5927</sup>

On 18 March 2020, Minister of Natural Resources and Ecology 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.<sup>5928</sup>

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.”<sup>5929</sup> 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.”<sup>5930</sup>

On 23 March 2020, the Ministry of Economic Development released a draft strategy for low-carbon development for the period up to 2050.<sup>5931</sup> The strategy aims at reducing carbon emissions by 30 per cent by 2030 compared to 1990 levels and is more ambitious than the current target of reducing carbon emissions by 25 per cent by 2030.<sup>5932</sup> The measures listed in this draft strategy include improving energy and resource efficiency and strengthening forest protection.<sup>5933</sup>

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<sup>5925</sup> 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/>

<sup>5926</sup> 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>

<sup>5927</sup> 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.

<sup>5928</sup> 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/](http://www.mnr.gov.ru/press/news/v_minprirody_rossii_obsudili_mery_preduprezhdeniya_pavodkovykh_situatsiy_na_territorii_amurskoy_obla/)

<sup>5929</sup> 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/](http://www.mnr.gov.ru/press/news/o_merakh_po_obespecheniyu_bezopasnogo_propuska_v_2020_godu_na_territorii_rf_polovodya_i_pavodkov/)

<sup>5930</sup> 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/](http://www.mnr.gov.ru/press/news/o_merakh_po_obespecheniyu_bezopasnogo_propuska_v_2020_godu_na_territorii_rf_polovodya_i_pavodkov/)

<sup>5931</sup> Russia publishes baby-steps plan toward a low carbon future, Bellona (Oslo) 27 March 2020. Access Date: 27 July 2020. <https://bellona.org/news/climate-change/2020-03-russia-publishes-baby-steps-plan-toward-a-low-carbon-future>

<sup>5932</sup> Russia’s Proposed Climate Plan Means Higher Emissions 2050, World Resources Institute (Washington) 13 April 2020. Access Date: 27 July 2020. <https://www.wri.org/blog/2020/04/russia-s-proposed-climate-plan-means-higher-emissions-through-2050>

<sup>5933</sup> Russia’s Proposed Climate Plan Means Higher Emissions 2050, World Resources Institute (Washington) 13 April 2020. Access Date: 27 July 2020. <https://www.wri.org/blog/2020/04/russia-s-proposed-climate-plan-means-higher-emissions-through-2050>

On 2 April 2020, Russia adopted the Energy Strategy of the Russian Federation for the period up to 2035.<sup>5934</sup> The Energy Strategy has five goals. The first is to expand the fuel and energy sector to meet the domestic socio-economic development of Russia.<sup>5935</sup> The second is to increase and diversify energy exports, with emphasis on increasing the export of liquified natural gas by 3.4 times by 2024.<sup>5936</sup> The third is to modernize and increase the availability of fuel and energy infrastructures.<sup>5937</sup> The fourth is achieving technological independence and increasing competitiveness of the fuel and energy sector using domestic technologies, equipment and materials.<sup>5938</sup> The fifth is to digitalize the fuel and energy sector.<sup>5939</sup> Associated actions include implementing 100 per cent smart electricity metering devices by 2035 and introducing intelligent control systems for power grids in all Russian regions.<sup>5940</sup> The strategy includes measures to reduce the negative environmental impacts of the fuel and energy complex.<sup>5941</sup> It entails the use of environmentally friendly, low-carbon and resource-saving technologies, the use of clean coal and the creation of monitoring and reporting system on greenhouse gas emission from energy facilities.<sup>5942</sup>

On 8 July 2020, Russia reached a decision with Botswana to draft a Memorandum of Understanding on the two countries' cooperation in the field of environmental protection.<sup>5943</sup> This Memorandum will establish the interaction of Russia and Botswana in protecting natural areas, adapting to climate change and adopting rational use of water and forest resources.<sup>5944</sup> The goal is to lay an international legal basis for environmental protection and rational use of natural resources for dialogue between the two countries.<sup>5945</sup>

On 15 July 2020, the Ministry of Natural Resources of Russia and the Federal Service for Hydrometeorology and Environmental Monitoring prepared a draft strategy for the development of

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<sup>5934</sup> Meeting of the Government, Russian Government (Moscow) 2 April 2020. Access Date: 27 July 2020. <http://government.ru/news/39341/>

<sup>5935</sup> Meeting of the Government, Russian Government (Moscow) 2 April 2020. Access Date: 27 July 2020. <http://government.ru/news/39341/>

<sup>5936</sup> Meeting of the Government, Russian Government (Moscow) 2 April 2020. Access Date: 27 July 2020. <http://government.ru/news/39341/>

<sup>5937</sup> Meeting of the Government, Russian Government (Moscow) 2 April 2020. Access Date: 27 July 2020. <http://government.ru/news/39341/>

<sup>5938</sup> Meeting of the Government, Russian Government (Moscow) 2 April 2020. Access Date: 27 July 2020. <http://government.ru/news/39341/>

<sup>5939</sup> Meeting of the Government, Russian Government (Moscow) 2 April 2020. Access Date: 27 July 2020. <http://government.ru/news/39341/>

<sup>5940</sup> Meeting of the Government, Russian Government (Moscow) 2 April 2020. Access Date: 27 July 2020. <http://government.ru/news/39341/>

<sup>5941</sup> Meeting of the Government, Russian Government (Moscow) 2 April 2020. Access Date: 27 July 2020. <http://government.ru/news/39341/>

<sup>5942</sup> Meeting of the Government, Russian Government (Moscow) 2 April 2020. Access Date: 27 July 2020. <http://government.ru/news/39341/>

<sup>5943</sup> Russia and Botswana intend to lay the foundation for cooperation in the field of environmental protection, Ministry of Natural Resources of Russia (Moscow) 8 July 2020. Access Date: 28 July 2020. [http://www.mnr.gov.ru/press/news/rossiya\\_i\\_botswana\\_namereny\\_zalozhit\\_osnovu\\_sotrudnichestva\\_v\\_oblasti\\_okhrany\\_okrzhayushchey\\_sredy/](http://www.mnr.gov.ru/press/news/rossiya_i_botswana_namereny_zalozhit_osnovu_sotrudnichestva_v_oblasti_okhrany_okrzhayushchey_sredy/)

<sup>5944</sup> Russia and Botswana intend to lay the foundation for cooperation in the field of environmental protection, Ministry of Natural Resources of Russia (Moscow) 8 July 2020. Access Date: 28 July 2020. [http://www.mnr.gov.ru/press/news/rossiya\\_i\\_botswana\\_namereny\\_zalozhit\\_osnovu\\_sotrudnichestva\\_v\\_oblasti\\_okhrany\\_okrzhayushchey\\_sredy/](http://www.mnr.gov.ru/press/news/rossiya_i_botswana_namereny_zalozhit_osnovu_sotrudnichestva_v_oblasti_okhrany_okrzhayushchey_sredy/)

<sup>5945</sup> Russia and Botswana intend to lay the foundation for cooperation in the field of environmental protection, Ministry of Natural Resources of Russia (Moscow) 8 July 2020. Access Date: 28 July 2020. [http://www.mnr.gov.ru/press/news/rossiya\\_i\\_botswana\\_namereny\\_zalozhit\\_osnovu\\_sotrudnichestva\\_v\\_oblasti\\_okhrany\\_okrzhayushchey\\_sredy/](http://www.mnr.gov.ru/press/news/rossiya_i_botswana_namereny_zalozhit_osnovu_sotrudnichestva_v_oblasti_okhrany_okrzhayushchey_sredy/)

Russia's activities in Antarctica until 2030.<sup>5946</sup> The document envisages an increase in support for investment projects and equipment of services and residential complexes at Russian Stations in Antarctica.<sup>5947</sup> The goal is “to preserve Antarctica as a zone of peace, strengthen the economic and scientific potential of Russia and prevent natural and climate threats of a global nature.”<sup>5948</sup>

On 25 September 2020, the Climate Center of the Russian Federal Service for Hydrometeorology and Environmental Monitoring “developed a report for planning adaptation measures to climate change in Russia.” The report formed regulatory frameworks, assessed the impact of current and forecasted climate changes and planned adaptation measures. The goal is to prepare Russia to adapt to the impacts of climate change.<sup>5949</sup>

On 6 October 2020, the Ministry of Natural Resources of Russia stated it will strengthen its environmental monitoring systems.<sup>5950</sup> The aim is to “enhance control and prompt response to possible changes in environment and the state of marine animals” after storms.<sup>5951</sup>

Russia has partially complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development. It has strived to foster innovation in a wide range of areas for 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. Further, it has strived to foster innovation in a wide range of areas for low emissions through its official recognition of the 2015 Paris Agreement and its Energy Strategy. However, it falls short of the “wide range” threshold.

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

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<sup>5946</sup> A draft Strategy for the development of the Russian Federation's activities in Antarctica until 2030 has been developed, Ministry of Natural Resources of Russia (Moscow) 15 July 2020. Access Date: 28 July 2020. [http://www.mnr.gov.ru/press/news/razrabotan\\_proekt\\_strategii\\_razvitiya\\_deyatelnosti\\_rf\\_v\\_antarktike\\_do\\_2030\\_goda/](http://www.mnr.gov.ru/press/news/razrabotan_proekt_strategii_razvitiya_deyatelnosti_rf_v_antarktike_do_2030_goda/)

<sup>5947</sup> A draft Strategy for the development of the Russian Federation's activities in Antarctica until 2030 has been developed, Ministry of Natural Resources of Russia (Moscow) 15 July 2020. Access Date: 28 July 2020. [http://www.mnr.gov.ru/press/news/razrabotan\\_proekt\\_strategii\\_razvitiya\\_deyatelnosti\\_rf\\_v\\_antarktike\\_do\\_2030\\_goda/](http://www.mnr.gov.ru/press/news/razrabotan_proekt_strategii_razvitiya_deyatelnosti_rf_v_antarktike_do_2030_goda/)

<sup>5948</sup> A draft Strategy for the development of the Russian Federation's activities in Antarctica until 2030 has been developed, Ministry of Natural Resources of Russia (Moscow) 15 July 2020. Access Date: 28 July 2020. [http://www.mnr.gov.ru/press/news/razrabotan\\_proekt\\_strategii\\_razvitiya\\_deyatelnosti\\_rf\\_v\\_antarktike\\_do\\_2030\\_goda/](http://www.mnr.gov.ru/press/news/razrabotan_proekt_strategii_razvitiya_deyatelnosti_rf_v_antarktike_do_2030_goda/)

<sup>5949</sup> Measures to adapt to climate change in Russia are planned, Ministry of Natural Resources of Russia (Moscow) 25 September 2020. Access Date: 30 September 2020. [http://www.mnr.gov.ru/press/news/planiruyutsya\\_mery\\_adaptatsii\\_k\\_izmeneniyam\\_klimata\\_v\\_rossii/](http://www.mnr.gov.ru/press/news/planiruyutsya_mery_adaptatsii_k_izmeneniyam_klimata_v_rossii/)

<sup>5950</sup> The storm hit the Pacific coast of the South Kamchatka reserve: after the rampant elements, environmental monitoring will be strengthened, Ministry of Natural Resources of Russia (Moscow) 6 October 2020. Access Date: 16 November 2020. [http://www.mnr.gov.ru/press/news/shtorm\\_obrushilsya\\_na\\_tikhoookanskoe\\_poberezhe\\_yuzhno\\_kamchatskogo\\_zakaznika\\_posle\\_razgula\\_stikhii\\_m/](http://www.mnr.gov.ru/press/news/shtorm_obrushilsya_na_tikhoookanskoe_poberezhe_yuzhno_kamchatskogo_zakaznika_posle_razgula_stikhii_m/)

<sup>5951</sup> The storm hit the Pacific coast of the South Kamchatka reserve: after the rampant elements, environmental monitoring will be strengthened, Ministry of Natural Resources of Russia (Moscow) 6 October 2020. Access Date: 16 November 2020. [http://www.mnr.gov.ru/press/news/shtorm\\_obrushilsya\\_na\\_tikhoookanskoe\\_poberezhe\\_yuzhno\\_kamchatskogo\\_zakaznika\\_posle\\_razgula\\_stikhii\\_m/](http://www.mnr.gov.ru/press/news/shtorm_obrushilsya_na_tikhoookanskoe_poberezhe_yuzhno_kamchatskogo_zakaznika_posle_razgula_stikhii_m/)

programs.”<sup>5952</sup> To support this development, Saudi Arabia will work to ensure the safety and security of energy supplies.<sup>5953</sup>

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 hour.<sup>5954</sup> 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.<sup>5955</sup>

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.<sup>5956</sup> 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.<sup>5957</sup>

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.<sup>5958</sup> 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, a group of energy companies, including Saudi Aramco, recently introduced new measures to spur large-scale investments in carbon capture and storage.<sup>5959</sup> This includes efforts to reduce carbon intensity and improve energy efficiency.

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<sup>5952</sup> 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>

<sup>5953</sup> 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>

<sup>5954</sup> 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.powersaudiarabia.com.sa/web/attach/news/Dumat-Al-Jandal-Lowest-LCOE.pdf>.

<sup>5955</sup> Increasing Efforts to Protect and Enhance Coral Reefs, Aramco, 28 August 2019. Access Date: 25 September 2020.

<sup>5956</sup> 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>.

<sup>5957</sup> 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>.

<sup>5958</sup> 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/>.

<sup>5959</sup> 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>.

On 29 October 2019 it was announced that Saudi Aramco signed an memorandum of undersatnding with the Norwegian software company Aker to cooperate on green solutions and industrial digitalization.<sup>5960</sup>

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.<sup>5961</sup>

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.<sup>5962</sup>

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.<sup>5963</sup>

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.<sup>5964</sup>

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.”<sup>5965</sup>

On 12 December 2019 Saudi Aramco unveiled a low carbon truck at an event in Detroit, Michigan.<sup>5966</sup>

On 28 January 2020 Saudi Arabia held a workshop on energy efficiency in household appliances and residential buildings, along with Japanese experts.<sup>5967</sup>

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<sup>5960</sup> Norway’s Aker to Cooperate with Saudi Aramco on Digitalization, Reuters, 29 October 2019. Access Date: 25 Septemeber 2020. <https://www.reuters.com/article/us-aker-saudi/norways-aker-to-cooperate-with-saudi-aramco-on-digitalization-idUSKBN1X81WW>.

<sup>5961</sup> 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>

<sup>5962</sup> 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>.

<sup>5963</sup> Transportation Sector, Saudi Energy Efficiency Center, n.d. Access Date: 24 September 2020. <https://www.seec.gov.sa/en/energy-sectors/transportation-sector/>.

<sup>5964</sup> 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-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/>

<sup>5965</sup> 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-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/>.

<sup>5966</sup> 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#>.

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.”<sup>5968</sup>

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.<sup>5969</sup>

On 20 February 2020 Saudi Arabia held a workshop on Opportunities in the Energy Efficiency Services Companies Sector.<sup>5970</sup>

On 25 February 2020 Saudi Arabia held an international conference on carbon capture, utilization and storage.<sup>5971</sup>

On 2 March 2020, Saudi Arabia held a workshop with licensed energy efficiency services companies.<sup>5972</sup>

On 25 June 2020, Energy Minister Prince Abdul Aziz bin Salman announced that Saudi Arabia will produce 50 percent of its electricity from renewable sources by 2030.<sup>5973</sup> The goal is to scale up earlier energy diversification plans and transform to renewables at a faster pace.<sup>5974</sup>

On 26 July 2020, Energy Minister Prince Abdul Aziz bin Salman laid out the foundations of Saudi Arabia’s circular carbon economy strategy.<sup>5975</sup> The goal is to slow down and reverse inexorable global warming caused by the emission of carbon materials into the atmosphere, by reducing emissions.<sup>5976</sup>

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

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<sup>5967</sup> 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>.

<sup>5968</sup> 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](http://trade-arabia.com/news/IND_363854.html)

<sup>5969</sup> 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>

<sup>5970</sup> 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/>.

<sup>5971</sup> 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>.

<sup>5972</sup> 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/>.

<sup>5973</sup> The benefits of Saudi Arabia’s renewable energy push, Arab News (Riyadh). June 29 2020. Access Date: 27 July 2020. <https://www.arabnews.com/node/1697306>

<sup>5974</sup> The benefits of Saudi Arabia’s renewable energy push, Arab News (Riyadh). June 29 2020. Access Date: 27 July 2020. <https://www.arabnews.com/node/1697306>

<sup>5975</sup> Circular carbon economy holds promise in battle against global warming, Arab News (Dubai). 26 July 2020. Access Date: 27 July 2020. <https://www.arabnews.com/node/1709941/business-economy>

<sup>5976</sup> Circular carbon economy holds promise in battle against global warming, Arab News (Dubai). 26 July 2020. Access Date: 27 July 2020. <https://www.arabnews.com/node/1709941/business-economy>

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.<sup>5977</sup> This collaboration will be jointly conducted by the implementation committee of the DMRE, the National Treasury and the Development Bank of Southern Africa.<sup>5978</sup>

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 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.<sup>5979</sup>

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.”<sup>5980</sup>

On 8 October 2019, Minister Matashe declared continued support for South Africa’s Renewable Energy Independent Power Producer Procurement Programme (REIPPP). It encourages investment

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<sup>5977</sup> 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>

<sup>5978</sup> 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>

<sup>5979</sup> 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](https://www.environment.gov.za/mediarelease/southafricaandcanada_environmentalprotection_climatechange_memorandumofunderstanding)

<sup>5980</sup> 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>

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.<sup>5981</sup>

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.<sup>5982</sup>

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.”<sup>5983</sup> 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.<sup>5984</sup> Additionally, the BASIC group encouraged funding to the Green Climate Fund to support developing countries as they adapt.<sup>5985</sup>

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.<sup>5986</sup> 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.<sup>5987</sup> 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.<sup>5988</sup>

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<sup>5981</sup> Speech by the Minister of Mineral Resources and Energy Mr SAMSON GWEDE MANTASHE, MP at the WINDABA Conference 8<sup>th</sup>, 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>

<sup>5982</sup> 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/>

<sup>5983</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5984</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5985</sup> Joint Statement issued at the Conclusion of the 29<sup>th</sup> 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>

<sup>5986</sup> 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#](https://www.environment.gov.za/mediarelease/amcen17agreement_sustainabledevelopmentaction#)

<sup>5987</sup> 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#](https://www.environment.gov.za/mediarelease/amcen17agreement_sustainabledevelopmentaction#)

<sup>5988</sup> 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#](https://www.environment.gov.za/mediarelease/amcen17agreement_sustainabledevelopmentaction#)

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.<sup>5989</sup>

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.<sup>5990</sup>

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.<sup>5991</sup>

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 180,000 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.<sup>5992</sup>

On 6 April 2020, the solar power project backed by South Africa's REIPP launched commercial operations of its third solar power plant, completing the 258MW Upington Solar Power Complex.<sup>5993</sup>

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<sup>5989</sup> 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>

<sup>5990</sup> 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>

<sup>5991</sup> 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/>

<sup>5992</sup> 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/>

<sup>5993</sup> Scatec Solar completes 258 MW Upington project in South Africa, Renewable Energy Magazine (Madrid) 6 April 2020. Access date: 24 July 2020. [https://www.renewableenergymagazine.com/pv\\_solar/scatec-solar-completes-258-mw-upington-project-20200406](https://www.renewableenergymagazine.com/pv_solar/scatec-solar-completes-258-mw-upington-project-20200406)

The 86MW facility is expected to produce 217GWh of energy per year to the region's grid, thus supplying over 40,000 South African households annually.<sup>5994</sup> The entire complex will deliver 650GWh in production per year, providing clean energy to around 120,000 households and neutralizing 600,000 tonnes of carbon dioxide emissions annually.<sup>5995</sup>

On 17 August 2020, the South African Ministry of Higher Education, Science, and Innovation launched an alternative energy project designed to make clean energy more accessible to low-income entrepreneurs in rural communities.<sup>5996</sup> The project will provide reliable solar energy panels, batteries and inverters that may be used on electronic devices, charging stations or mobile offices.<sup>5997</sup>

On 3 September 2020, the Development Bank of South Africa secured funding to develop a renewable energy project entitled the Mitochondria Energy Company.<sup>5998</sup> The plan entails the design of a 250kW fuel cell system, which will convert chemical energy from hydrogen into electricity, in order to support South Africa's transition as a player in the emerging hydrogen economy.<sup>5999</sup>

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

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<sup>5994</sup> Scatec Solar completes 258 MW Upington project in South Africa, Renewable Energy Magazine (Madrid) 6 April 2020. Access date: 24 July 2020. [https://www.renewableenergymagazine.com/pv\\_solar/scatec-solar-completes-258-mw-upington-project-20200406](https://www.renewableenergymagazine.com/pv_solar/scatec-solar-completes-258-mw-upington-project-20200406)

<sup>5995</sup> Scatec Solar completes 258 MW Upington project in South Africa, Renewable Energy Magazine (Madrid) 6 April 2020. Access date: 24 July 2020. [https://www.renewableenergymagazine.com/pv\\_solar/scatec-solar-completes-258-mw-upington-project-20200406](https://www.renewableenergymagazine.com/pv_solar/scatec-solar-completes-258-mw-upington-project-20200406)

<sup>5996</sup> Minister Blade Nzimande launches BabyTurtle alternative energy project, Government of South Africa (Pretoria) 17 August 2020. Access Date: 24 September 2020. <https://www.gov.za/speeches/minister-blade-nzimande-launches-babyturtle-alternative-energy-project-20-aug-17-aug-2020>

<sup>5997</sup> Minister Blade Nzimande launches BabyTurtle alternative energy project, Government of South Africa (Pretoria) 17 August 2020. Access Date: 24 September 2020. <https://www.gov.za/speeches/minister-blade-nzimande-launches-babyturtle-alternative-energy-project-20-aug-17-aug-2020>

<sup>5998</sup> South African fuel cell technology company to be developed, ESI Africa (Pretoria) 4 September 2020. Access Date: 24 September 2020. <https://www.esi-africa.com/industry-sectors/future-energy/south-african-fuel-cell-technology-company-to-be-developed/>

<sup>5999</sup> Mitochondria Energy Company secures funding for feasibility study of stationary fuel cell energy solution, Africa Inc. (Pretoria) 4 September 2020. Access Date: 24 September 2020. <https://africaincmag.com/2020/09/07/mitochondria-energy-company-secures-funding-for-feasibility-study-of-stationary-fuel-cell-energy-solution/>

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.<sup>6000</sup>

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 4,767 megawatts, and will continue to increase with the implementation of the Renewable Energy Resource Areas competitions.<sup>6001</sup>

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.<sup>6002</sup>

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.<sup>6003</sup>

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.<sup>6004</sup>

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.<sup>6005</sup> 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

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<sup>6000</sup> 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>

<sup>6001</sup> 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>

<sup>6002</sup> 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>

<sup>6003</sup> 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>

<sup>6004</sup> 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>

<sup>6005</sup> 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>

Plan, which has set a road map to increase energy efficiency with 55 actions, among other important projects that aid in climate action.<sup>6006</sup>

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.<sup>6007</sup>

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.<sup>6008</sup>

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.<sup>6009</sup>

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.<sup>6010</sup>

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.<sup>6011</sup>

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.”<sup>6012</sup>

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<sup>6006</sup> 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>

<sup>6007</sup> 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>

<sup>6008</sup> 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>

<sup>6009</sup> 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>

<sup>6010</sup> 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>

<sup>6011</sup> 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>

<sup>6012</sup> 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-alanlardaki-konutlar-tasinacak-bakanlik-faaliyetleri-29721>

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.<sup>6013</sup>

On 16 September 2020, Minister of Energy and Natural Resources Fatih Dönmez announced the research and development of solar panels in Konya Karapınar.<sup>6014</sup> It is estimated it will increase Turkey's electricity generation in solar energy share by approximately 20 per cent.<sup>6015</sup>

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 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.<sup>6016</sup>

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.<sup>6017</sup>

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

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<sup>6013</sup> 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>

<sup>6014</sup> First local solar panels sent to Karapınar, Ministry of Energy and Natural Resources (Ankara) 16 September 2020. Access Date: 9 October 2020. <https://enerji.gov.tr/haber-detay?id=703>

<sup>6015</sup> "We Will Open Karapınar Solar Power Plant Next Month," Ministry of Energy and Natural Resources (Ankara) 9 July 2020. Access Date: 9 October 2020. <https://enerji.gov.tr/haber-detay?id=661>

<sup>6016</sup> 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>

<sup>6017</sup> 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>

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.<sup>6018</sup>

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.<sup>6019</sup>

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.<sup>6020</sup>

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."<sup>6021</sup>

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.<sup>6022</sup> For water, the bill aims at ensuring long-term water resources.<sup>6023</sup> Regarding resources and waste, the bill will establish fines for single-use plastics, encourage reusable alternatives and implement efforts to introduce reusable drinking

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<sup>6018</sup> 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](https://ec.europa.eu/regional_policy/en/projects/france/down-to-earth-collaboration-in-france-and-england-for-low-carbon-sustainable-houses)

<sup>6019</sup> 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>

<sup>6020</sup> 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>

<sup>6021</sup> 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/>

<sup>6022</sup> 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>

<sup>6023</sup> 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>

containers.<sup>6024</sup> 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.<sup>6025</sup>

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.<sup>6026</sup>

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 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.<sup>6027</sup>

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.<sup>6028</sup>

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.<sup>6029</sup>

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

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<sup>6024</sup> 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>

<sup>6025</sup> 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>

<sup>6026</sup> 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>

<sup>6027</sup> 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>

<sup>6028</sup> 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.cnn.com/2020/02/04/uk-government-plans-to-ban-sale-of-diesel-and-gasoline-cars-by-2035.html>

<sup>6029</sup> 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>

carbon dioxide emissions by 750,000 tons per year, which would be equivalent to removing approximately 350,000 cars off the road.<sup>6030</sup>

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.<sup>6031</sup>

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 leakage, develop new reservoirs, enhance regional water transfers and reduce the use of harmful drought measures.<sup>6032</sup>

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.<sup>6033</sup>

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.<sup>6034</sup>

On 20 March 2020, the United Kingdom was announced as the first co-chair of the governing council to India’s Coalition for Disaster-Resilient Infrastructure.<sup>6035</sup> The body was established by Prime Minister Narendra Modi and consists of an international group, joining governments, UN agencies, banks, private sector groups, and academia to develop resilient infrastructure systems able

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<sup>6030</sup> 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>

<sup>6031</sup> 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>

<sup>6032</sup> 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>

<sup>6033</sup> £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>

<sup>6034</sup> 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>

<sup>6035</sup> UK confirmed as first co-chair of India-led climate change initiative, the Economic Times (Mumbai) 21 March 2020. Access Date: 24 July 2020. <https://energy.economictimes.indiatimes.com/news/renewable/uk-confirmed-as-first-co-chair-of-india-led-climate-change-initiative/74744751>

to withstand climate and disaster risks.<sup>6036</sup> As part of UK-India combined efforts, the nations have launched a joint venture between UK's EO Charging and India's Yahvi Enterprises, which are set to deliver charging infrastructure for electric vehicles across India. Through the Mahatma Gandhi National Rural Employment Act, the UK has also begun the construction of "flood defences and river structures to encourage aquifer replenishment."<sup>6037</sup> India and the UK have also jointly committed GBP240 million towards capital in the Green Growth Equity Fund, which is expected to finance Ayana Renewable Power's development of 800MW in solar power capacity.<sup>6038</sup>

On 10 June 2020, the Climate Risk and Early Warning Systems Initiative's member states (Australia, Canada, France, Germany, Luxembourg, Netherlands, Switzerland and the United Kingdom) announced USD4.8 million for "the delivery of early warning systems and services" to the Pacific region. The objective of these systems and services was to protect residents from severe weather.<sup>6039</sup> These systems and services are intended to allow for proactivity by making forecasting possible.<sup>6040</sup>

On 12 June 2020, the Scottish government unveiled a GBP62 million funding package to support the energy sector's commitment to transitioning to net-zero emissions by 2045.<sup>6041</sup> Major projects to be considered for the government grant include a Global Underwater Hub in Aberdeen to support the subsea and underwater sector, and Net Zero Solution Centre projects including an Energy Transition Zone attached to the Aberdeen South Harbor.<sup>6042</sup> The package is also set to fund a Hydrogen Hub and the Acorn CSS project, both expected to produce green hydrogen to supply Scotland's energy market.<sup>6043</sup>

On 16 June 2020, the United Kingdom's offshore oil and gas industry pledged to reduce its operational carbon emissions by half to become a net-zero emissions by 2050.<sup>6044</sup> The government's aim is to collaborate with the private sector to accomplish the target, which would remove over 9

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<sup>6036</sup> UK confirmed as first co-chair of India-led climate change initiative, the Economic Times (Mumbai) 21 March 2020. Access Date: 24 July 2020. <https://energy.economictimes.indiatimes.com/news/renewable/uk-confirmed-as-first-co-chair-of-india-led-climate-change-initiative/74744751>

<sup>6037</sup> UK confirmed as first co-chair of India-led climate change initiative, the Economic Times (Mumbai) 21 March 2020. Access Date: 24 July 2020. <https://energy.economictimes.indiatimes.com/news/renewable/uk-confirmed-as-first-co-chair-of-india-led-climate-change-initiative/74744751>

<sup>6038</sup> UK confirmed as first co-chair of India-led climate change initiative, the Economic Times (Mumbai) 21 March 2020. Access Date: 24 July 2020. <https://energy.economictimes.indiatimes.com/news/renewable/uk-confirmed-as-first-co-chair-of-india-led-climate-change-initiative/74744751>

<sup>6039</sup> Financing increased for early warning systems in Small Island Developing States, CREWS Initiative (Geneva) 10 June 2020. Access Date: 27 July 2020. <https://www.crews-initiative.org/en/news/financing-increased-early-warning-systems-small-island-developing-states>

<sup>6040</sup> Financing increased for early warning systems in Small Island Developing States, CREWS Initiative (Geneva) 10 June 2020. Access Date: 27 July 2020. <https://www.crews-initiative.org/en/news/financing-increased-early-warning-systems-small-island-developing-states>

<sup>6041</sup> £62 million fund for energy sector, Scottish Government (Edinburgh) 12 June 2020. Access date 24 July 2020. <https://www.gov.scot/news/gbp-62-million-fund-for-energy-sector/>

<sup>6042</sup> £62 million fund for energy sector, Scottish Government (Edinburgh) 12 June 2020. Access date 24 July 2020. <https://www.gov.scot/news/gbp-62-million-fund-for-energy-sector/>

<sup>6043</sup> £62 million fund for energy sector, Scottish Government (Edinburgh) 12 June 2020. Access date 24 July 2020. <https://www.gov.scot/news/gbp-62-million-fund-for-energy-sector/>

<sup>6044</sup> UK offshore oil and gas industry outlines plan to cut emissions as talks on transformational sector deal formally begin, UK Oil and Gas Industry Association (London) June 16 2020. Access Date: 24 July 2020. <https://oilandgasuk.co.uk/uk-offshore-oil-and-gas-industry-outlines-plan-to-cut-emissions-as-talks-on-transformational-sector-deal-formally-begin/>

million tonnes of greenhouse gases from the atmosphere, comparable to taking as many as two million cars off the road annually.<sup>6045</sup>

On 16 June 2020, the British government announced GBP12 million in funding designated towards research into the zero-emission market, the electric vehicle industry and vehicle-charging technology.<sup>6046</sup> The funding, provided via the Office for Low-Emission Vehicles, will funnel GBP10 million towards a new Zero Emission Vehicle Competition.<sup>6047</sup> Applicants will be able to bid for project funding directed to research for their charging infrastructure, as well as electric and hydrogen-driven batteries.<sup>6048</sup>

On 4 August 2020, the United Kingdom announced a new GBP2 billion for the Green Homes Grant, a home energy efficiency fund, designed to provide more than 600,000 British homes with up to GBP10,000 of funding for upgrades in energy efficiency and thermal solar installation.<sup>6049</sup> The funding will assist improvements such as thermal measures, heat pumps, low-carbon heating and insulation<sup>6050</sup>. Approximately GBP500 million out of the GBP2 billion of the Green Homes Grant scheme will be allocated towards low-income households.<sup>6051</sup>

On 6 August 2020, the UK government announced plans to quadruple offshore wind power by 2030, by increasing wind power generation from 10 GW to over 40 GW.<sup>6052</sup> According to Energy Minister Kwasi Kwarteng, this could help provide power to over 14 million homes and improve the cabling, transmission and costs of connecting new wind farms to the pre-existing British energy grid.<sup>6053</sup>

On 24 September 2020, the Nationally Appropriate Mitigation Action Facility announced EUR168 million in funding for the Euros Ambition Initiative, in which both the United Kingdom and

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<sup>6045</sup> UK offshore oil and gas industry outlines plan to cut emissions as talks on transformational sector deal formally begin, UK Oil and Gas Industry Association (London) June 16 2020. Access Date: 24 July 2020. <https://oilandgasuk.co.uk/uk-offshore-oil-and-gas-industry-outlines-plan-to-cut-emissions-as-talks-on-transformational-sector-deal-formally-begin/>

<sup>6046</sup> UK government announces £12m funding for research into zero-emission market, Intelligent Transport (London) 16 June 2020. Access Date: 24 July 2020. <https://www.intelligenttransport.com/transport-news/100821/uk-government-announces-12m-funding-for-research-into-zero-emission-market/>

<sup>6047</sup> UK government announces £12m funding for research into zero-emission market, Intelligent Transport (London) 16 June 2020. Access Date: 24 July 2020. <https://www.intelligenttransport.com/transport-news/100821/uk-government-announces-12m-funding-for-research-into-zero-emission-market/>

<sup>6048</sup> UK government announces £12m funding for research into zero-emission market, Intelligent Transport (London) 16 June 2020. Access Date: 24 July 2020. <https://www.intelligenttransport.com/transport-news/100821/uk-government-announces-12m-funding-for-research-into-zero-emission-market/>

<sup>6049</sup> UK government announces £2 billion home energy efficiency fund, Smart Energy International (London) 4 August 2020. Access Date: 24 September 2020. <https://www.smart-energy.com/industry-sectors/energy-efficiency/uk-government-announces-2-billion-home-energy-efficiency-fund/>

<sup>6050</sup> UK government announces £2 billion home energy efficiency fund, Smart Energy International (London) 4 August 2020. Access Date: 24 September 2020. <https://www.smart-energy.com/industry-sectors/energy-efficiency/uk-government-announces-2-billion-home-energy-efficiency-fund/>

<sup>6051</sup> UK government announces £2 billion home energy efficiency fund, Smart Energy International (London) 4 August 2020. Access Date: 24 September 2020. <https://www.smart-energy.com/industry-sectors/energy-efficiency/uk-government-announces-2-billion-home-energy-efficiency-fund/>

<sup>6052</sup> UK Government announces plans to quadruple offshore wind power by 2030, EV Wind (London) 6 August 2020. Access Date: 24 September 2020. <https://www.evwind.es/2020/08/06/uk-government-announces-plans-to-quadruple-offshore-wind-power-by-2030/76323>

<sup>6053</sup> UK Government announces plans to quadruple offshore wind power by 2030, EV Wind (London) 6 August 2020. Access Date: 24 September 2020. <https://www.evwind.es/2020/08/06/uk-government-announces-plans-to-quadruple-offshore-wind-power-by-2030/76323>

Germany contributed.<sup>6054</sup> The goal of this initiative is to contribute to global green recovery efforts and work towards carbon neutrality.<sup>6055</sup> This can be achieved through methods such as investment in electric vehicles, carbon-low farming practices and an increase of energy efficiency in the housing sector.<sup>6056</sup>

On 9 October 2020, Scotland announced it will be providing GBP 3.5 million to help with green recovery projects.<sup>6057</sup> Part of this project is to increase energy efficiency and increase the amount of electric vehicles.<sup>6058</sup>

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: +1**

The United States has fully 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.<sup>6059</sup>

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

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<sup>6054</sup> NAMA Facility responds to a global green recovery with its largest-ever funding for a new “Ambition Initiative,” Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 24 September 2020. Access Date: 9 October 2020. <https://www.bmu.de/en/pressrelease/nama-facility-responds-to-a-global-green-recovery-with-its-largest-ever-funding-for-a-new-ambition/>

<sup>6055</sup> NAMA Facility responds to a global green recovery with its largest-ever funding for a new “Ambition Initiative,” Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 24 September 2020. Access Date: 9 October 2020. <https://www.bmu.de/en/pressrelease/nama-facility-responds-to-a-global-green-recovery-with-its-largest-ever-funding-for-a-new-ambition/>

<sup>6056</sup> NAMA Facility responds to a global green recovery with its largest-ever funding for a new “Ambition Initiative,” Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Berlin) 24 September 2020. Access Date: 9 October 2020. <https://www.bmu.de/en/pressrelease/nama-facility-responds-to-a-global-green-recovery-with-its-largest-ever-funding-for-a-new-ambition/>

<sup>6057</sup> Scotland's Green Recovery, Scottish Government (Edinburgh) 9 October 2020. Access Date: 15 November 2020. <https://www.gov.scot/news/scotlands-green-recovery-1/>

<sup>6058</sup> Scotland's Green Recovery, Scottish Government (Edinburgh) 9 October 2020. Access Date: 15 November 2020. <https://www.gov.scot/news/scotlands-green-recovery-1/>

<sup>6059</sup> 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>

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."<sup>6060</sup>

On 22 October 2019, the Department of Energy announced it will allocate USD28 million for wind energy research, developing, testing, demonstration and development.<sup>6061</sup>

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.<sup>6062</sup>

On 6 November 2019, the Department of Energy announced it will be providing USD128 million to enhance solar energy technologies, with 75 research projects to be funded.<sup>6063</sup>

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."<sup>6064</sup>

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."<sup>6065</sup>

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.<sup>6066</sup> Moreover, the Department of Energy and the Office of Energy

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<sup>6060</sup> 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/>

<sup>6061</sup> 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>

<sup>6062</sup> Joint 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/>

<sup>6063</sup> 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>

<sup>6064</sup> 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/>

<sup>6065</sup> 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/>

<sup>6066</sup> 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>

Efficiency and Renewable Energy also announced that up to USD4.8 million will go towards geothermal research and USD300 million for sustainable transportation.

On 19 February 2020, the Department of Energy stated it would provide USD100 million for research into artificial photosynthesis to create solar fuels.<sup>6067</sup>

On 30 March 2020, the Department of Energy announced it will provide USD22 million for research into carbon capture, utilization and storage technology.<sup>6068</sup>

On 3 September 2020, the Environmental Protection Agency (EPA) announced it will provide USD4 million for in research funding to “build resilience an protect vulnerable groups from environmental impacts of natural disaster.”<sup>6069</sup> This funding will go to five different institutions, where researchers will “investigate topics such as understanding the effect of major coastal flooding events and identifying the most promising infrastructure solutions to reduce hurricane and flood-related industrial contaminant releases and exposures.”<sup>6070</sup>

On 16 September 2020, the EPA announced it will be providing nearly USD10 million for protecting water in Guam as part of a larger USD2.7 billion water infrastructure initiative.<sup>6071</sup> Additionally, the EPA contributed USD1.6 nationwide from the Clean Water State Revolving Fund.<sup>6072</sup> Of this, approximately USD6 million will be dedicated to Guam in order to “help drinking water systems install treatment for contamination, improve distribution systems by removing lead service lines and strengthen system resiliency to natural disasters such as floods.”<sup>6073</sup>

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<sup>6067</sup> 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>

<sup>6068</sup> 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>

<sup>6069</sup> EPA Announce \$4 Million in Research Funding to Build Resilience and Protect Vulnerable Groups from Environmental Impacts of Natural Disasters, United States Environmental Agency (Washington, D.C.) 3 September 2020. Access Date: 9 October 2020. <https://www.epa.gov/newsreleases/epa-announces-4-million-research-funding-build-resilience-and-protect-vulnerable-groups>

<sup>6070</sup> EPA Announce \$4 Million in Research Funding to Build Resilience and Protect Vulnerable Groups from Environmental Impacts of Natural Disasters, United States Environmental Agency (Washington, D.C.) 3 September 2020. Access Date: 9 October 2020. <https://www.epa.gov/newsreleases/epa-announces-4-million-research-funding-build-resilience-and-protect-vulnerable-groups>

<sup>6071</sup> EPA Awards Nearly \$10 Million for Infrastructure to Protect Surface Waters and Drinking Water in Guam, United States Environmental Protection Agency (Washington, D.C.) 16 September 2020. Access Date: 9 October 2020. <https://www.epa.gov/newsreleases/epa-awards-nearly-10-million-infrastructure-protect-surface-waters-and-drinking-water>

<sup>6072</sup> EPA Awards Nearly \$10 Million for Infrastructure to Protect Surface Waters and Drinking Water in Guam, United States Environmental Protection Agency (Washington, D.C.) 16 September 2020. Access Date: 9 October 2020. <https://www.epa.gov/newsreleases/epa-awards-nearly-10-million-infrastructure-protect-surface-waters-and-drinking-water>

<sup>6073</sup> EPA Awards Nearly \$10 Million for Infrastructure to Protect Surface Waters and Drinking Water in Guam, United States Environmental Protection Agency (Washington, D.C.) 16 September 2020. Access Date: 9 October 2020. <https://www.epa.gov/newsreleases/epa-awards-nearly-10-million-infrastructure-protect-surface-waters-and-drinking-water>

On 17 September 2020, the EPA announced it will provide USD1.6 million in Diesel Emissions Reduction Act grants to partners in Arizona.<sup>6074</sup> The objective is to use the funds to foster cleaner air and reduce emissions by replacing old, diesel-polluting vehicles.<sup>6075</sup>

On 29 September 2020, the Environmental Protection Agency announced it will be rewarding up to USD 73 million for clean diesel projects as part of its Diesel Emissions Reduction Act National Grants Program.<sup>6076</sup> It aims to reduce emissions from its “existing fleet of old, dirty engines.”<sup>6077</sup>

On 1 October 2020, the Environmental Protection Agency announced the USD 88 million for Water Infrastructure Finance Innovation Act loan for Soquel Creek Water District in California.<sup>6078</sup> The Act aims to replenish groundwater to increase the community’s drought resilience and ensure access to water.<sup>6079</sup>

The United States has fully complied with its commitment to strive to foster innovation in a wide range of areas for low emissions and resilient development. It has strived to foster innovation in a wide range of areas for low emissions through its investment in carbon capture, utilization and storage technology as well as other funding for 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, the Indo-Pacific Strategy agreed to at the East Asia Summit, and the Environmental Protection Agency’s investments to build resilience in vulnerable communities.

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

*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

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<sup>6074</sup> U.S. EPA awards \$1.6 million to reduce diesel emissions in Arizona, United States Environmental Protection Agency (Washington, D.C.) 17 September 2020. Access Date: 9 October 2020. <https://www.epa.gov/newsreleases/us-epa-awards-16-million-reduce-diesel-emissions-arizona-0>

<sup>6075</sup> U.S. EPA awards \$1.6 million to reduce diesel emissions in Arizona, United States Environmental Protection Agency (Washington, D.C.) 17 September 2020. Access Date: 9 October 2020. <https://www.epa.gov/newsreleases/us-epa-awards-16-million-reduce-diesel-emissions-arizona-0>

<sup>6076</sup> EPA to Award up to \$73 million for Clean Diesel Projects, United States Environmental Protection Agency (Washington, DC) 29 September 2020. Access Date: 15 November 2020. <https://www.epa.gov/newsreleases/epa-award-73-million-clean-diesel-projects>

<sup>6077</sup> EPA to Award up to \$73 million for Clean Diesel Projects, United States Environmental Protection Agency (Washington, DC) 29 September 2020. Access Date: 15 November 2020. <https://www.epa.gov/newsreleases/epa-award-73-million-clean-diesel-projects>

<sup>6078</sup> U.S. EPA Announces \$88 Million Water Infrastructure Loan for Innovative Water Reuse Project in Soquel, CA, United States Environmental Protection (Washington, DC) 1 October 2020. Access Date: 15 November 2020. <https://www.epa.gov/newsreleases/us-epa-announces-88-million-water-infrastructure-loan-innovative-water-reuse-project>

<sup>6079</sup> U.S. EPA Announces \$88 Million Water Infrastructure Loan for Innovative Water Reuse Project in Soquel, CA, United States Environmental Protection (Washington, DC) 1 October 2020. Access Date: 15 November 2020. <https://www.epa.gov/newsreleases/us-epa-announces-88-million-water-infrastructure-loan-innovative-water-reuse-project>

objectives.<sup>6080</sup> The regulation includes incentives for low-emissions and zero-emissions vehicles, as well as financial penalties for excess emissions.<sup>6081</sup>

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.<sup>6082</sup>

On 27 November 2019, the European Union set a regulation on sustainability-related disclosures 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 sustainable development framework and the United Nations Framework Convention on Climate Change.<sup>6083</sup>

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.<sup>6084</sup>

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.<sup>6085</sup>

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."<sup>6086</sup> 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."<sup>6087</sup>

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

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<sup>6080</sup> 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>

<sup>6081</sup> 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>

<sup>6082</sup> 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>.

<sup>6083</sup> 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>

<sup>6084</sup> 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](https://ec.europa.eu/info/news/investment-plan-supports-innovative-electric-power-company-spain-2020-jan-22_en)

<sup>6085</sup> 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](https://ec.europa.eu/info/news/investment-plan-supports-energy-saving-upgrade-heating-distribution-networks-two-polish-cities-2020-jan-28_en)

<sup>6086</sup> 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](https://ec.europa.eu/commission/presscorner/detail/en/IP_20_167)

<sup>6087</sup> 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](https://ec.europa.eu/commission/presscorner/detail/en/IP_20_167)

the “Detal” system. The technology has been proven to reduce carbon dioxide emissions, use of water and use of electricity.<sup>6088</sup>

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.”<sup>6089</sup> 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.”<sup>6090</sup>

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.<sup>6091</sup> The goal of this program is to focus on nature conservation, air quality and greening the economy to foster resilience to climate change.<sup>6092</sup>

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.<sup>6093</sup>

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.<sup>6094</sup>

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

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<sup>6088</sup> 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](https://ec.europa.eu/info/news/investment-plan-helps-spanish-energy-company-cepsa-become-greener-2020-feb-05_en)

<sup>6089</sup> 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/>

<sup>6090</sup> 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/>

<sup>6091</sup> 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](https://ec.europa.eu/clima/news/eu-invests-more-100-million-new-life-programme-projects-promote-green-and-climate-neutral_en)

<sup>6092</sup> 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](https://ec.europa.eu/clima/news/eu-invests-more-100-million-new-life-programme-projects-promote-green-and-climate-neutral_en)

<sup>6093</sup> 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](https://ec.europa.eu/commission/presscorner/detail/en/IP_20_329)

<sup>6094</sup> 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](https://ec.europa.eu/info/news/energy-union-eu980-million-eu-funding-available-clean-energy-infrastructure-2020-mar-13_en)

more affordable clean energy, derived from unrecyclable municipal waste that will have fewer negative impacts on the environment.<sup>6095</sup>

On 19 May 2020, the European Commission approved a EUR550 million to support the production of electricity in existing and depreciated biomass installations in Denmark.<sup>6096</sup> This decision is aimed at preventing a switch to fossil fuels, ultimately helping Denmark reach its target of 55 per cent of electricity production from renewable energy by 2030.<sup>6097</sup>

On 27 May 2020, the European Investment Bank signed a loan agreement for EUR18 million with a company building and running photovoltaic plants in Poland.<sup>6098</sup> It is predicted that these plants will reduce 47,000 tons of carbon dioxide each year.<sup>6099</sup>

On 28 May 2020, the European Commission approved support granted by Spain to electricity generators for supplying electricity in the Spanish non-peninsular territories as a Service of General Economic Interest.<sup>6100</sup> This will allow for better electricity security in these regions of Spain, as well as allow for better integration of renewable energy sources in the future.<sup>6101</sup>

On 31 August 2020, the European Investment Bank, along with UniCredit Bank Austria, provided a total of EUR107.4 million to finance the development of a wind farm in Austria.<sup>6102</sup> The wind farm will have the capacity to provide roughly 90,000 households with electricity.<sup>6103</sup> This project contributes to the shift to renewable energy, thus reducing overall emissions.<sup>6104</sup>

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<sup>6095</sup> 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](https://ec.europa.eu/info/news/cohesion-policy-commission-invests-better-waste-management-bulgaria-2020-mar-20_en)

<sup>6096</sup> State aid: Commission Approves €550 Million Danish Scheme to Support Electricity Production from Biomass Installations, European Commission (Brussels) 19 May 2020. Access Date: 20 August 2020. [https://ec.europa.eu/info/news/state-aid-commission-approves-eu550-million-danish-scheme-support-electricity-production-biomass-installations-2020-may-19\\_en](https://ec.europa.eu/info/news/state-aid-commission-approves-eu550-million-danish-scheme-support-electricity-production-biomass-installations-2020-may-19_en)

<sup>6097</sup> State aid: Commission Approves €550 Million Danish Scheme to Support Electricity Production from Biomass Installations, European Commission (Brussels) 19 May 2020. Access Date: 20 August 2020. [https://ec.europa.eu/info/news/state-aid-commission-approves-eu550-million-danish-scheme-support-electricity-production-biomass-installations-2020-may-19\\_en](https://ec.europa.eu/info/news/state-aid-commission-approves-eu550-million-danish-scheme-support-electricity-production-biomass-installations-2020-may-19_en)

<sup>6098</sup> Investment Plan: First EIB Support for Solar Energy Project in Poland, European Commission (Brussels) 27 May 2020. Access Date: 24 August 2020. [https://ec.europa.eu/commission/presscorner/detail/en/IP\\_20\\_951](https://ec.europa.eu/commission/presscorner/detail/en/IP_20_951)

<sup>6099</sup> Investment Plan: First EIB Support for Solar Energy Project in Poland, European Commission (Brussels) 27 May 2020. Access Date: 24 August 2020. [https://ec.europa.eu/commission/presscorner/detail/en/IP\\_20\\_951](https://ec.europa.eu/commission/presscorner/detail/en/IP_20_951)

<sup>6100</sup> State aid: Commission Approves Support for Electricity Production in Spanish Non-Peninsular Territories, European Commission (Brussels), 28 May 2020. Access Date: 24 August 2020. [https://ec.europa.eu/info/news/state-aid-commission-approves-support-electricity-production-spanish-non-peninsular-territories-2020-may-28\\_en](https://ec.europa.eu/info/news/state-aid-commission-approves-support-electricity-production-spanish-non-peninsular-territories-2020-may-28_en)

<sup>6101</sup> State aid: Commission Approves Support for Electricity Production in Spanish Non-Peninsular Territories, European Commission (Brussels), 28 May 2020. Access Date: 24 August 2020. [https://ec.europa.eu/info/news/state-aid-commission-approves-support-electricity-production-spanish-non-peninsular-territories-2020-may-28\\_en](https://ec.europa.eu/info/news/state-aid-commission-approves-support-electricity-production-spanish-non-peninsular-territories-2020-may-28_en)

<sup>6102</sup> EIB and UniCredit Bank Austria finance development of one of Austria's largest wind farms, European Commission (Brussels) 31 August 2020. Access Date: September 7 2020. [https://ec.europa.eu/info/news/eib-and-unicredit-bank-austria-finance-development-one-austrias-largest-wind-farms-2020-aug-31-0\\_en](https://ec.europa.eu/info/news/eib-and-unicredit-bank-austria-finance-development-one-austrias-largest-wind-farms-2020-aug-31-0_en)

<sup>6103</sup> EIB and UniCredit Bank Austria finance development of one of Austria's largest wind farms, European Commission (Brussels) 31 August 2020. Access Date: September 7 2020. [https://ec.europa.eu/info/news/eib-and-unicredit-bank-austria-finance-development-one-austrias-largest-wind-farms-2020-aug-31-0\\_en](https://ec.europa.eu/info/news/eib-and-unicredit-bank-austria-finance-development-one-austrias-largest-wind-farms-2020-aug-31-0_en)

<sup>6104</sup> EIB and UniCredit Bank Austria finance development of one of Austria's largest wind farms, European Commission (Brussels) 31 August 2020. Access Date: September 7 2020. [https://ec.europa.eu/info/news/eib-and-unicredit-bank-austria-finance-development-one-austrias-largest-wind-farms-2020-aug-31-0\\_en](https://ec.europa.eu/info/news/eib-and-unicredit-bank-austria-finance-development-one-austrias-largest-wind-farms-2020-aug-31-0_en)

On 1 October 2020, the European Commission outlined its Zero Pollution Action Plan. The plan has four key areas. Firstly, how to effectively implement and enforce rules and regulations.<sup>6105</sup> Secondly, explore existing health and environmental legislation.<sup>6106</sup> Thirdly, monitor pollution prevention and reduction policies, and determine how to strengthen them internationally.<sup>6107</sup> Lastly, how to implement societal change, especially via digital solutions, to usher in sustainable development.<sup>6108</sup>

On 2 October 2020, the European Union announced it will be investing EU 1 billion into its energy infrastructure.<sup>6109</sup> Approximately 84 per cent will go towards electricity and smart grids as part of the European Green Deal.<sup>6110</sup>

The European Union has fully complied with its commitment to foster innovation in a wide range of areas for low emissions though the reduction of carbon 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*

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<sup>6105</sup> Commission outlines road to Zero Pollution Action Plan, European Commission (Brussels) 1 October 2020. Access Date: 16 November 2020. [https://ec.europa.eu/environment/news/commission-outlines-road-zero-pollution-action-plan-2020-10-01\\_en](https://ec.europa.eu/environment/news/commission-outlines-road-zero-pollution-action-plan-2020-10-01_en)

<sup>6106</sup> Commission outlines road to Zero Pollution Action Plan, European Commission (Brussels) 1 October 2020. Access Date: 16 November 2020. [https://ec.europa.eu/environment/news/commission-outlines-road-zero-pollution-action-plan-2020-10-01\\_en](https://ec.europa.eu/environment/news/commission-outlines-road-zero-pollution-action-plan-2020-10-01_en)

<sup>6107</sup> Commission outlines road to Zero Pollution Action Plan, European Commission (Brussels) 1 October 2020. Access Date: 16 November 2020. [https://ec.europa.eu/environment/news/commission-outlines-road-zero-pollution-action-plan-2020-10-01\\_en](https://ec.europa.eu/environment/news/commission-outlines-road-zero-pollution-action-plan-2020-10-01_en)

<sup>6108</sup> Commission outlines road to Zero Pollution Action Plan, European Commission (Brussels) 1 October 2020. Access Date: 16 November 2020. [https://ec.europa.eu/environment/news/commission-outlines-road-zero-pollution-action-plan-2020-10-01\\_en](https://ec.europa.eu/environment/news/commission-outlines-road-zero-pollution-action-plan-2020-10-01_en)

<sup>6109</sup> Investing in new energy infrastructure: Green light for EU grants worth nearly EUR 1 billion, European Commission (Brussels) 2 October 2020. Access Date: 16 November 2020. [https://ec.europa.eu/info/about-european-commission/contact\\_en](https://ec.europa.eu/info/about-european-commission/contact_en)

<sup>6110</sup> Investing in new energy infrastructure: Green light for EU grants worth nearly EUR 1 billion, European Commission (Brussels) 2 October 2020. Access Date: 16 November 2020. [https://ec.europa.eu/info/about-european-commission/contact\\_en](https://ec.europa.eu/info/about-european-commission/contact_en)