

The
G7 Research Group
at the Munk School of Global Affairs and Public Policy at Trinity College
in the University of Toronto presents the

2018 Charlevoix G7 Final Compliance Report

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“We have meanwhile set up a process and there are also independent institutions monitoring which objectives of our G7 meetings we actually achieve. When it comes to these goals we have a compliance rate of about 80%, according to the University of Toronto. Germany, with its 87%, comes off pretty well. That means that next year too, under the Japanese G7 presidency, we are going to check where we stand in comparison to what we have discussed with each other now. So a lot of what we have resolved to do here together is something that we are going to have to work very hard at over the next few months. But I think that it has become apparent that we, as the G7, want to assume responsibility far beyond the prosperity in our own countries. That’s why today’s outreach meetings, that is the meetings with our guests, were also of great importance.”

Chancellor Angela Merkel, Schloss Elmau, 8 June 2015

G7 summits are a moment for people to judge whether aspirational intent is met by concrete commitments. The G7 Research Group provides a report card on the implementation of G7 and G20 commitments. It is a good moment for the public to interact with leaders and say, you took a leadership position on these issues — a year later, or three years later, what have you accomplished?

Achim Steiner, Administrator, United Nations Development Programme,
in *G7 Canada: The 2018 Charlevoix Summit*

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11. Climate Change: Paris Agreement

“Canada, France, Germany, Italy, Japan, the United Kingdom, and the European Union reaffirm their strong commitment to implement the Paris Agreement, through ambitious climate action; in particular through strengthening and financing resilience and reducing vulnerability.”

G7 Charlevoix Summit Communiqué

Assessment

	No Compliance	Partial Compliance	Full Compliance
Canada			+1
France			+1
Germany			+1
Italy			+1
Japan			+1
United Kingdom			+1
United States	N/A		
European Union			+1
Average		+1.00	

Background

Climate change is one of the most complex, multi-dimensional, and challenging global issues facing the world today. In December 2015, world leaders gathered together at the 21st Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change (UNFCCC) to acknowledge this global problem and address the challenges brought by climate change. In response, the Paris Agreement was adopted by consensus on 12 December 2015, and it came into force on 4 November 2016.²⁵⁷⁸ The purpose of the Paris Agreement is to mitigate climate change and reduce emissions by keeping the global temperature rise to well below 2° Celsius above pre-industrial levels, further aiming to limit the increase to 1.5° Celsius.²⁵⁷⁹ The agreement also seeks to help countries adapt to the impacts of climate change and align climate action with their own national objectives and capacities. Although this agreement is legally binding in holding governments accountable to the 1.5–2° Celsius limit, the commitments to curb greenhouse gas emissions under this goal are not.

There are three main elements to the Paris Agreement. The first is Nationally Determined Contributions (NDCs), which are national climate action plans outlining how countries intend to lower their respective greenhouse gas emissions and adapt to climate change. NDCs take into account the individual country’s capacities and contexts and require regular reporting on emissions and implementation efforts to decarbonise domestic economies. It is expected that countries submit updated NDCs over a five-year cycle, and demonstrate more ambitious action and targets to mitigate and deal with climate change as time progresses. The second aspect of the Paris Agreement refers to the pledge of developed countries to mobilise USD 100 billion per year in public and private finance by 2020 for climate mitigation and adaptation activities in developing countries. The third element of the Paris Agreement refers to climate adaptation as articulated in Article 7 of the agreement, which

²⁵⁷⁸ The Paris Agreement: Essential Elements, United Nations Framework Convention on Climate Change. Access Date: 7 September 2018. http://unfccc.int/paris_agreement/items/9485.php

²⁵⁷⁹ The Paris Agreement: Essential Elements, United Nations Framework Convention on Climate Change. Access Date: 7 September 2018. http://unfccc.int/paris_agreement/items/9485.php

states that the “parties hereby establish the global goal of enhancing adaptive capacity, strengthening resilience and reducing vulnerability to climate change.”²⁵⁸⁰

Following COP21 in December 2015, COP22 and COP23 were held in Morocco and Germany in November 2016 and November 2017 respectively, both of which served to accelerate climate action and inform preparations for the next NDCs due in 2020. At COP23, a facilitative dialogue known as the Talanoa Dialogue was launched, which served as the first global stock-taking exercise of NDCs as mandated by the Paris Agreement. Ultimately, the goal of such dialogue is to help countries achieve greater ambition in implementing and improving their individual NDCs, and thus to collectively achieve the climate goals of the Paris Agreement.

On 1 June 2017, U.S. president Donald Trump signed an executive order which withdrew the United States from the Paris Agreement. Although the US remains a part of the UNFCCC, it will not implement the Paris Agreement.²⁵⁸¹

In December 2018, COP24 will be hosted by Poland, a meeting some perceive as “Paris 2.0. According to the UN Climate Change Executive Secretary Patricia Espinosa, “COP21 saw the birth of the Agreement. In Poland, as I call it Paris 2.0, we will put together the pieces, directions, and guidelines in order to make the framework really operate.”²⁵⁸² In this regard, COP24 is a negotiation between the Parties to develop guidelines on how to ensure full implementation of the Paris Agreement, in order to keep global warming to well below 2 degrees Celsius above pre-industrial levels. The meeting will also take stock of the collective achievements made thus far to meet the objectives agreed to in the Paris Agreement.

As major democratic powers, the G7 has been involved in the global governance of climate change since the early stages of its summitry. In fact, this notion was coined by G7 leaders at their fifth annual summit in Tokyo, 1979.²⁵⁸³ G7 members have a positive track record of compliance with climate commitments, averaging 73 percent compliance (close to the G7’s all-issue compliance average of 75 percent).²⁵⁸⁴ For more information regarding the G7’s global governance of climate change, please refer to the following source: *The Global Governance of Climate Change G7, G20, and UN Leadership*, authored by John Kirton and Ella Kokotsis.²⁵⁸⁵

Commitment Features

At Charlevoix, all G7 members except for the United States “reaffirm[ed] their strong commitment to implement the Paris Agreement, through ambitious climate action; in particular through strengthening and financing resilience and reducing vulnerability.” In this commitment, the G7 has agreed to focus efforts on climate adaptation (as opposed to climate mitigation). Specifically, G7 members have agreed to implement the Paris Agreement by 1) strengthening and financing climate resilience; and 2) by reducing vulnerability.

²⁵⁸⁰ “The Paris Agreement”. UNFCCC. Access Date: 27 January 2018.

http://unfccc.int/files/essential_background/convention/application/pdf/english_paris_agreement.pdf

²⁵⁸¹ Paris Climate Agreement: World reacts as Trump pulls out of global accord. The Guardian, 2 June 2017. Access Date: 8 September 2017. <https://www.theguardian.com/environment/live/2017/jun/01/donald-trump-paris-climate-agreement-live-news>

²⁵⁸² Interview "COP24 Will be Paris 2.0", 21 December 2018, United Nations Framework Convention on Climate Change, 21 December 2018. Access Date: 8 September 2018. <https://unfccc.int/news/cop24-will-be-paris-20>

²⁵⁸³ Controlling Climate Change through G7-G20-UN Leadership, G7 Research Group (Toronto) 19 May 2016. Access Date: 13 October 2018. <http://www.g7.utoronto.ca/scholar/kirton-climate-g7-g20-2016.pdf>

²⁵⁸⁴ Controlling Climate Change through G7-G20-UN Leadership, G7 Research Group (Toronto) 19 May 2016. Access Date: 13 October 2018. <http://www.g7.utoronto.ca/scholar/kirton-climate-g7-g20-2016.pdf>

²⁵⁸⁵ The Global Governance of Climate Change: G7, G20 and UN Leadership, Political Science, University of Toronto (Toronto) Access Date: 13 October 2018.

To define the key terms in this commitment: “to strengthen” is interpreted to mean “to make or become stronger.”²⁵⁸⁶ “Resilience” is defined by the Intergovernmental Panel on Climate Change as the “capacity of social, economic, and environmental systems to cope with a hazardous event or trend or disturbance, responding or reorganizing in ways that maintain their essential function, identity, and structure, while also maintaining the capacity for adaptation, learning, and transformation.”²⁵⁸⁷ To “reduce” is interpreted to mean to “make something smaller or less in amount, degree, or size.”²⁵⁸⁸ “Vulnerability to climate change” refers to “the degree to which geophysical, biological and socio-economic systems are susceptible to and unable to cope with, adverse impacts of climate change.”²⁵⁸⁹ Issues relating to climate vulnerability include extreme weather conditions and events, land degradation, and biodiversity loss.²⁵⁹⁰ Examples of solutions to reduce climate vulnerability include conducting vulnerability assessments to develop resilience plans, monitoring and evaluating the progress of NDCs and National Adaptation Plans, scaling successful adaptation interventions, implementing strategies and engaging in partnerships to address intersectional effects of climate change (such as poverty resulting from climate vulnerability).²⁵⁹¹

In the first part of the commitment, G7 members “reaffirm” their support for the implementation of the Paris Agreement. This means that all parties (excluding the United States) recognize their individual roles in keeping the global temperature rise to well below two degrees Celsius above pre-industrial levels. “Reaffirm” is defined as “affirm again, whereby affirm is to assert strongly, state as fact, confirm or ratify a judgment.”²⁵⁹² Pledging support for “ambitious climate action” during the current compliance cycle indicates a “strong” commitment to the Paris Agreement. This means that climate action must be more than a verbal recognition of the Paris Agreement. Examples of actions that count as ambitious climate action include pledging substantial financial contributions to support developing countries, enacting national laws to limit greenhouse gas emission and more.

Moreover, the commitment of G7 members to implement the Paris Agreement entails a recognition of the need to improve their respective NDCs, in order to reflect more ambitious climate mitigation and adaptation activities. NDCs are of central importance to the Paris Agreement, serving as a national-level mechanism to communicate and maintain successive plans such as domestic mitigation measures.²⁵⁹³ Actions to implement the Paris Agreement can also include scaling up climate finance contributions to meet the target of mobilizing USD 100 billion per year in public and private finance

²⁵⁸⁶ Compliance Coding Manual for International Institutional Commitments, G7 and G20 Research Groups (Toronto) 7 May 2018. Access Date: 24 September 2018. <http://www.g7.utoronto.ca/compliance/compliance-coding-manual-2016.pdf>

²⁵⁸⁷ Annex I — Glossary, Acronyms and Chemical Symbols, Intergovernmental Panel on Climate Change (Geneva) 2014. Access Date: 13 October 2018. http://www.ipcc.ch/pdf/assessment-report/ar5/wg3/ipcc_wg3_ar5_annex-i.pdf

²⁵⁸⁸ Reduce, Oxford Living Dictionaries (Oxford) Access Date: 13 October 2018. <https://en.oxforddictionaries.com/definition/reduce>

²⁵⁸⁹ 19.1.2 Conceptual framework for the identification and assessment of key vulnerabilities, Intergovernmental Panel on Climate Change (Geneva) 2007. Access Date: 13 October 2018. https://www.ipcc.ch/publications_and_data/ar4/wg2/en/ch19s19-1-2.html

²⁵⁹⁰ Least Developed Countries — Reducing Vulnerability to climate change, climate variability and extremes, land degradation and loss of biodiversity: Environmental and Developmental Challenges and Opportunities, United Nations Framework Convention on Climate Change (Bonn) May 2011. Access Date: 13 October 2018. https://unfccc.int/resource/docs/publications/ldc_reducingvulnerability.pdf

²⁵⁹¹ Strategies for reducing vulnerability and building resilience to environmental and natural disasters in developing countries, United Nations Department of Economic and Social Affairs, Division of Social Policy and Development (New York) 8 May 2017. Access Date: 13 October 2018. https://www.un.org/development/desa/dspd/wp-content/uploads/sites/22/2017/04/Moushumi-Chaudhury-Strategies-to-Reduce-Vulnerability-Paper_WRI_Final.pdf

²⁵⁹² Compliance Coding Manual for International Institutional Commitments, G7 and G20 Research Groups (Toronto) 7 May 2018. Access Date: 24 September 2018.

²⁵⁹³ Nationally Determined Contributions (NDCs), United Nations Climate Change (New York) Access Date: 13 October 2018. <https://unfccc.int/process/the-paris-agreement/nationally-determined-contributions/ndc-registry>

by 2020, in order to help developing and emerging economies that are particularly vulnerable to climate change. Actions in this regard also count toward compliance in the first half of the commitment.

According to the second aspect of this commitment, the climate finance pledged and/or disbursed by G7 members (excluding the United States) should be directed towards improving climate resilience and reducing vulnerability to the effects of climate change. In other words, resources spent should specifically support countries that are implementing new initiatives or building on existing measures to cope with or adapt to climate change. Examples of measures include building infrastructure such as flood defenses, shifting to drought-resistant crops, rainwater harvesting, and water conservation techniques, improvements in irrigation efficiency. Another example is planning for extreme heat and its impact on public health, for which adaptation measures have been implemented in regions that combine weather monitoring, early warning, and response measures.²⁵⁹⁴ Any funding from G7 members used to support and implement such actions to address climate resilience and vulnerability count towards this part of the commitment.

With regards to the latter half of the commitment, “strengthen” indicates that G7 members must fulfill a certain threshold of action. “Strengthen” means that the G7 member must have increased or acted more than before in the fields of financing climate resilience and reducing climate vulnerability. If the contribution of a G7 member is less or the same as before (for instance, a reiteration or renewal of previous financial contributions), the G7 member has not fulfilled this section of the commitment to strengthen its actions.

To achieve full compliance, the G7 must reaffirm its strong commitment to implement the Paris Agreement by acting and committing to ambitious climate action, while strengthening and financing programs to improve climate resilience and reduce vulnerability. Partial compliance will be scored if the G7 member only fulfilled the former part of the commitment ie. its climate action does not have a focus on resilience and vulnerability. A score of 0 for partial compliance will also be assigned if the G7 member does not meet the threshold of policy actions constituting “strong” commitment and/or “strengthen[ing]” climate action as defined above in the former or latter part of the commitment, even if some action has been taken. If the G7 member does not comply with either part of this commitment, it will receive a score of -1 for non-compliance.

This United States is not a part of this commitment. Therefore, its compliance will not be scored and accounted for the average. However, a report outlining the United States climate action will be included below without a compliance score.

Scoring Guidelines

-1	The G7 member does NOT reaffirm its strong commitment to implement the Paris Agreement, through ambitious climate action; NOR strengthens and finances resilience and reducing vulnerability.
0	The G7 member reaffirms its strong commitment to implement the Paris Agreement, through ambitious climate action; OR strengthens and finances resilience and reducing vulnerability.
+1	The G7 member reaffirms its strong commitment to implement the Paris Agreement, through ambitious climate action; AND in particular through strengthening and financing resilience and reducing vulnerability.

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²⁵⁹⁴ IPCC Fourth Assessment Report: Climate Change 2007: Working Group II: Impacts, Adaptation and Vulnerability, IPCC. Access Date: 7 September 2018. https://www.ipcc.ch/publications_and_data/ar4/wg2/en/ch17s17-2-2.html

Canada: +1

Canada has fully complied with its commitment to reaffirm its strong commitment to implement the Paris Agreement, through ambitious climate action; in particular through strengthening and financing resilience and reducing vulnerability.

On 21 June 2018, the government adopted the “Greenhouse Gas Pollution Pricing Act,” which imposes a national carbon-pricing mechanism on fossil fuels and carbon emissions in any province or territory that has yet to implement its own carbon pricing strategies.²⁵⁹⁵ The act is an important element of the Pan-Canadian Framework on Clean Growth and Climate Change, and it is a part of Canada’s Nationally Determined Contribution (NDC) “to reduce GHG [greenhouse gas] emissions by 30% below 2005 levels by 2030.”²⁵⁹⁶

On 25 June 2018, respectively on behalf of the Minister of Environment and Climate Change Catherine McKenna and Nova Scotia’s Minister of Energy Geoff Maclean, member of Parliament for Dartmouth-Cole Harbour Darren Fisher and Nova Scotia’s Minister of Public Service Commission Tony Ince announced the “SolarHomes” program. This program will subsidize the cost of solar power in the households of Nova Scotia through “rebates of up to 30 percent off the purchase and installation costs of rooftop solar-electricity systems.”²⁵⁹⁷ This funding is part of the “\$2 billion Low Carbon Economy Fund to support new provincial and territorial actions to reduce emissions by 2030 in line with Canada’s NDC to the Paris Agreement.”²⁵⁹⁸

On 10 July 2018, Minister Catherine McKenna and Nova Scotia’s Minister of Energy and Mines Derek Mombourquette announced “the expansion of the Home Energy Assessment, Green Heat, and Efficient Products Installation programs for homeowners who use non-electrical sources of heat.”²⁵⁹⁹ These programs are part of the government’s Low Carbon Economy Fund, and they are designed to give financial incentives such as rebates to homeowners for the installation and retrofitting of energy-efficient appliances such as heating systems and showerheads.²⁶⁰⁰

On 20 August 2018, the government published a discussion paper in preparation for consultations on the mid-term evaluation of Canada’s light-duty vehicle greenhouse gas emission regulations for

²⁵⁹⁵ How we’re putting a price on carbon pollution, Government of Canada (Ottawa) 26 October 2018. Access Date: 2 November 2018. <https://www.canada.ca/en/environment-climate-change/services/climate-change/pricing-pollution-how-it-will-work/putting-price-on-carbon-pollution.html>

²⁵⁹⁶ How we’re putting a price on carbon pollution, Government of Canada (Ottawa) 26 October 2018. Access Date: 2 November 2018. <https://www.canada.ca/en/environment-climate-change/services/climate-change/pricing-pollution-how-it-will-work/putting-price-on-carbon-pollution.html>

²⁵⁹⁷ The governments of Canada and Nova Scotia announce funding to help Nova Scotia homeowners save money on solar power, Government of Canada (Dartmouth) 25 June 2018. Access Date: 18 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/06/the-governments-of-canada-and-nova-scotia-announce-funding-to-help-nova-scotia-homeowners-save-money-on-solar-power.html>

²⁵⁹⁸ Canada’s 2017 Nationally Determined Contribution Submission to the United Nations Framework Convention on Climate Change, United Nations Framework Convention on Climate Change NDC Registry (Ottawa) 11 May 2017. Access Date: 10 October 2018.

<http://www4.unfccc.int/ndcregistry/PublishedDocuments/Canada%20First/Canada%20First%20NDC-Revised%20submission%202017-05-11.pdf>

²⁵⁹⁹ News release: The governments of Canada and Nova Scotia help homeowners fund energy efficiency upgrades, Government of Canada (Dartmouth) 10 July 2018. Access Date: 18 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/07/the-governments-of-canada-and-nova-scotia-help-homeowners-fund-energy-efficiency-upgrades.html>

²⁶⁰⁰ News release: The governments of Canada and Nova Scotia help homeowners fund energy efficiency upgrades, Government of Canada (Dartmouth) 10 July 2018. Access Date: 18 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/07/the-governments-of-canada-and-nova-scotia-help-homeowners-fund-energy-efficiency-upgrades.html>

the 2022–2025 model years. Canada will monitor the actions of other global jurisdictions that are also developing measures to address greenhouse gas emissions from light-duty vehicles.²⁶⁰¹

On 10 September 2018, as a part of the government’s Low Carbon Economy Fund, Minister McKenna announced a federal investment of CAD12 million in support of energy-efficient retrofitting and the installation of heating systems in communities and public housing in Nunavut.²⁶⁰²

On 13 September 2018, the government joined various state governments of the United States to issue a joint statement on “North American Climate Leadership” at the Global Climate Action Summit in San Francisco, California.²⁶⁰³ At this summit, the government reaffirmed its commitment made at the North America Leaders’ Summit to “[achieve] 50% of zero-carbon power generation by 2025 collectively across North America.”²⁶⁰⁴ The statement further underscored market-based strategies for emission reductions through innovation, economic growth, and existing platforms to incorporate the cost of carbon pollution into decision-making. The Global Climate Action Summit provided an opportunity for signatories of the Paris Agreement to assess their climate action as a midway point till 2020.²⁶⁰⁵

On 13 September 2018, during the same meeting, the government accepted the U.S. Climate Alliance’s Shot-Lived Climate Pollutants Challenge.²⁶⁰⁶ The goal of this challenge is to develop reduction strategies that mitigate the effect and concentration of “short-lived climate pollutants,” such as ground-level ozone and methane.²⁶⁰⁷

On 19 September 2018, at the G7 Ministerial Meeting on Working Together on Climate Change, Oceans, and Clean Energy, Minister Catherine McKenna announced CAD2million in new funds for the National Adaptation Plan Global Network. This fund will be managed by the International Institute for Sustainable Development, and it seeks to help developing countries adapt to the impacts of climate change.²⁶⁰⁸

²⁶⁰¹ News release: Canada begins consultations on vehicle emission standards, Government of Canada (Ottawa) 20 August 2018. Access Date: 2 November 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/08/canada-begins-consultations-on-vehicle-emission-standards.html>

²⁶⁰² News release: The governments of Canada and Nunavut announce investments in energy efficiency upgrades that help residents save energy and money, Government of Canada (Gatineau) 10 September 2018. Access Date: 10 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/09/the-governments-of-canada-and-nunavut-announce-investments-in-energy-efficiency-upgrades-that-help-residents-save-energy-and-money.html>

²⁶⁰³ Joint Statement on North American Climate Leadership, Government of Canada (Ottawa) 13 September 2018. Access Date: 18 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/09/joint-statement-on-north-american-climate-leadership1.html>

²⁶⁰⁴ Joint Statement on North American Climate Leadership, Government of Canada (Ottawa) 13 September 2018. Access Date: 18 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/09/joint-statement-on-north-american-climate-leadership1.html>

²⁶⁰⁵ Joint Statement on North American Climate Leadership, Government of Canada (Ottawa) 13 September 2018. Access Date: 18 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/09/joint-statement-on-north-american-climate-leadership1.html>

²⁶⁰⁶ Canada joins with international partners to make progress on fighting climate change, Cision (San Francisco) 13 September 2018. Access Date: 18 October 2018. <https://www.newswire.ca/news-releases/canada-joins-with-international-partners-to-make-progress-on-fighting-climate-change-693212471.html>

²⁶⁰⁷ Joint Statement on North American Climate Leadership, Government of Canada (Ottawa) 13 September 2018. Access Date: 18 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/09/joint-statement-on-north-american-climate-leadership1.html>

²⁶⁰⁸ G7 environment meetings in Halifax focus on climate action, and the \$26 trillion opportunity of clean growth and tackling air pollution, Government of Canada (Halifax) 19 September 2018. Access Date: 3 November 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/09/g7-environment-meetings-in-halifax-focus-on-climate-action-and-the-26-trillion-opportunity-of-clean-growth-and-tackling-air-pollution.html>

On 20 September 2018, at the Healthy Oceans, Seas and Resilient Coastal Communities meeting, Minister McKenna and Minister of Natural Resources Amarjeet Sohi launched the G7 initiative on Earth and Observation and Integrated Coastal Zone Management alongside other G7 Environment, Energy and Oceans Ministers. This initiative seeks to improve the availability and accessibility of data and services that are critical to better understanding the current state of oceans coasts.”²⁶⁰⁹ The goal of this initiative is to reduce the vulnerabilities brought forth by extreme weather events affecting coastal communities.²⁶¹⁰

On 20 September 2018, during the same meeting, the government announced funding of CAD60 million to support clean energy development and ensure equitable access to employment and energy resources for females in Small Island Developing States.²⁶¹¹

On 20 September 2018, during the same meeting, the government also announced funding of CAD5.6 million to deploy the “Argo Ocean Array” floats. This contribution strives to monitor changes in salinity and ocean temperatures of international oceans, and “make this data publicly available.”²⁶¹² The goal of this action is to improve developing countries’ understanding of oceans and reduce related risks.²⁶¹³

On 28 September 2018, during the same meeting, Minister of Natural Resources Amarjeet Sohi announced CAD29.8 million in funding for Halagonia Tidal Energy Ltd.²⁶¹⁴ This funding is a “part of Natural Resources Canada’s Emerging Renewable Power Program plan for promoting clean

²⁶⁰⁹ News release: Environment, Ocean and Energy Ministers ready to take action on our oceans and seas; conclude G7 joint meeting on Healthy Oceans, Seas and Resilient Coastal Communities, Government of Canada (Halifax) 20 September 2018. Access Date: 16 October 2018. <https://www.canada.ca/en/global-affairs/news/2018/09/environment-oceans-and-energy-ministers-ready-to-take-action-on-our-oceans-and-seas-conclude-g7-joint-meeting-on-healthy-oceans-seas-and-resilient-.html>

²⁶¹⁰ News release: Environment, Ocean and Energy Ministers ready to take action on our oceans and seas; conclude G7 joint meeting on Healthy Oceans, Seas and Resilient Coastal Communities, Government of Canada (Halifax) 20 September 2018. Access Date: 16 October 2018. <https://www.canada.ca/en/global-affairs/news/2018/09/environment-oceans-and-energy-ministers-ready-to-take-action-on-our-oceans-and-seas-conclude-g7-joint-meeting-on-healthy-oceans-seas-and-resilient-.html>

²⁶¹¹ News release: Environment, Ocean and Energy Ministers ready to take action on our oceans and seas; conclude G7 joint meeting on Healthy Oceans, Seas and Resilient Coastal Communities, Government of Canada (Halifax) 20 September 2018. Access Date: 16 October 2018. <https://www.canada.ca/en/global-affairs/news/2018/09/environment-oceans-and-energy-ministers-ready-to-take-action-on-our-oceans-and-seas-conclude-g7-joint-meeting-on-healthy-oceans-seas-and-resilient-.html>

²⁶¹² News release: Environment, Ocean and Energy Ministers ready to take action on our oceans and seas; conclude G7 joint meeting on Healthy Oceans, Seas and Resilient Coastal Communities, Government of Canada (Halifax) 20 September 2018. Access Date: 16 October 2018. <https://www.canada.ca/en/global-affairs/news/2018/09/environment-oceans-and-energy-ministers-ready-to-take-action-on-our-oceans-and-seas-conclude-g7-joint-meeting-on-healthy-oceans-seas-and-resilient-.html>

²⁶¹³ News release: Environment, Ocean and Energy Ministers ready to take action on our oceans and seas; conclude G7 joint meeting on Healthy Oceans, Seas and Resilient Coastal Communities, Government of Canada (Halifax) 20 September 2018. Access Date: 16 October 2018. <https://www.canada.ca/en/global-affairs/news/2018/09/environment-oceans-and-energy-ministers-ready-to-take-action-on-our-oceans-and-seas-conclude-g7-joint-meeting-on-healthy-oceans-seas-and-resilient-.html>

²⁶¹⁴ Minister Sohi Announces Major Investment in Renewable Tidal Energy That Will Power 2,500 homes in Nova Scotia, Cision (Halifax) 20 September 2018. Access Date: 18 October 2018. <https://www.newswire.ca/news-releases/minister-sohi-announces-major-investment-in-renewable-tidal-energy-that-will-power-2500-homes-in-nova-scotia-693881551.html>

growth and fighting climate change.”²⁶¹⁵ The goal of this action is to harness energy from deep and shallow produce and generate clean electricity for Nova Scotia.²⁶¹⁶

On 28 September 2018, as a part of the EfficiencyBC program, the government and the Province of British Columbia announced CAD24 million in funding for the provision of financial incentives and guidance to homes and businesses that make energy-efficient retrofits.²⁶¹⁷ This funding is a part of the government’s Low Carbon Economy Fund.²⁶¹⁸

On 10 October 2018, on behalf of Minister McKenna, member of Parliament for Fundy-Royal Alaina Lockhart announced a federal investment of CAD1.19 million in support of community projects to protect and restore freshwater resources in Atlantic Canada.²⁶¹⁹ The goal of this investment is to “enhance degraded shore areas, develop tools for sharing knowledge to improve water quality, educate the population [of Atlantic Canada], and study the impact of microplastic pollution.”²⁶²⁰

On 11 October 2018, Minister McKenna, Minister of Infrastructure of the Legislative Assembly of the Northwest Territories Wally Schumann, and Minister of Environment and Natural Resources of the Legislative Assembly of the Northwest Territories Robert C. McLeod jointly announced a federal investment of CAD 23 million. This funding seeks to “support energy efficiency retrofits, renewable energy, and forest regeneration” in the Northwest Territories and originates from the government’s Low Carbon Economy Fund.²⁶²¹

On 11 October 2018, Minister McKenna announced CAD4.3 million to support 58 new EcoAction Community Funding Program projects across Canada. These funds will support local action to fight

²⁶¹⁵ Minister Sohi Announces Major Investment in Renewable Tidal Energy That Will Power 2,500 homes in Nova Scotia, Cision (Halifax) 20 September 2018. Access Date: 18 October 2018. <https://www.newswire.ca/news-releases/minister-sohi-announces-major-investment-in-renewable-tidal-energy-that-will-power-2500-homes-in-nova-scotia-693881551.html>

²⁶¹⁶ Minister Sohi Announces Major Investment in Renewable Tidal Energy That Will Power 2,500 homes in Nova Scotia, Cision (Halifax) 20 September 2018. Access Date: 18 October 2018. <https://www.newswire.ca/news-releases/minister-sohi-announces-major-investment-in-renewable-tidal-energy-that-will-power-2500-homes-in-nova-scotia-693881551.html>

²⁶¹⁷ News release: New program makes saving energy more affordable, Government of British Columbia (Victoria) 28 September 2018. Access Date: 17 October 2018. <https://news.gov.bc.ca/releases/2018EMPR0052-001891>

²⁶¹⁸ News release: New program makes saving energy more affordable, Government of British Columbia (Victoria) 28 September 2018. Access Date: 17 October 2018. <https://news.gov.bc.ca/releases/2018EMPR0052-001891>

²⁶¹⁹ News release: The Government of Canada invests in the protection and restoration of freshwater resources in Atlantic Canada, Government of Canada (Sackville) 10 October 2018. Access Date: 18 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/10/the-government-of-canada-invests-in-the-protection-and-restoration-of-freshwater-resources-in-atlantic-canada.html>

²⁶²⁰ News release: The Government of Canada invests in the protection and restoration of freshwater resources in Atlantic Canada, Government of Canada (Sackville) 10 October 2018. Access Date: 18 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/10/the-government-of-canada-invests-in-the-protection-and-restoration-of-freshwater-resources-in-atlantic-canada.html>

²⁶²¹ News release: Governments of Canada and Northwest Territories announce funding to fight climate change and save money for homeowners, businesses, and communities, Government of Canada (Yellowknife) 11 October 2018. Access Date: 17 October 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/10/governments-of-canada-and-northwest-territories-announce-funding-to-fight-climate-change-and-save-money-for-homeowners-businesses-and-communities.html>

and adapt to climate change and educate and engage Canadians in preserving and conserving water resources.²⁶²²

On 25 October 2018, Minister McKenna and Prime Minister of the Netherlands Mark Rutte announced Canada's participation in the Global Commission on Adaptation. The Global Commission on Adaptation is an initiative led by the Netherlands to support solutions that enhance climate change resilience. Canada will contribute CAD7.5 million in support of the work of the Global Commission on Adaptation.²⁶²³

On 1 November 2018, Minister McKenna and Minister of Ecology and Environment of the People's Republic of China Li Ganjie signed a memorandum of understanding on climate change cooperation between Canada and China. The memorandum lays the foundation for the bilateral exchange of information on national climate change policy measures and cooperation on climate change related projects.²⁶²⁴

On 16 November 2018, Member of Parliament for Vancouver Quadra Joyce Murray and Parliament Secretary for Emergency Preparedness British Columbia Jennifer Rice announced federal and provincial funding of CAD16.5 million to help construct new projects as a part of the National Disaster Mitigation Program. The program is a government initiative to mitigate the effects, risks, and costs of flooding in Canada.²⁶²⁵

On 3 December 2018, Minister McKenna released a draft of the 2019–2022 Federal Sustainable Development Strategy for public consultation and presented the government's 2018 Progress Report of the 2016–2019 Federal Sustainable Development Strategy. The draft outlines the government's sustainability priorities, establishes goals and targets, and identifies actions that 42 departments and agencies across the government will take to reduce greenhouse gas emissions from their operations. The Canadian public will have 120 days to provide feedback and comments regarding how to strengthen the country's sustainability priorities.²⁶²⁶

On 12 December 2018, the government of Canada announced that it will phase out electricity production from traditional coal-fired facilities by 2030. The goal of such regulations is to reduce

²⁶²² News release: The Government of Canada supports climate action in communities to protect the environment and grow the economy, Government of Canada (Ottawa) 11 October 2018. Access Date: 3 November 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/10/the-government-of-canada-supports-climate-action-in-communities-to-protect-the-environment-and-grow-the-economy.html>

²⁶²³ News release: Canada joins the Netherlands in new Global Commission on Adaptation to build resilience to the effects of climate change, Government of Canada (Ottawa) 25 October 2018. Access Date: 6 December 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/10/canada-joins-the-netherlands-in-new-global-commission-on-adaptation-to-build-resilience-to-the-effects-of-climate-change.html>

²⁶²⁴ News release: Canada and China strengthen partnership on climate and environment, Government of Canada (Beijing) 1 November 2018. Access Date: 6 December 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/11/canada-and-china-strengthen-partnership-on-climate-and-environment.html>

²⁶²⁵ News release: Government of Canada contributes to resilient communities in British Columbia, Government of Canada (Vancouver) 16 November 2018. Access Date: 6 December 2018. <https://www.canada.ca/en/public-safety-canada/news/2018/11/government-of-canada-contributes-to-resilient-communities-in-british-columbia.html>

²⁶²⁶ Government of Canada releases the draft 2019–2022 Federal Sustainable Development Strategy for public consultation and the 2018 Progress Report, Government of Canada (Ottawa) 3 December 2018. Access Date: 21 December 2018. <https://www.canada.ca/en/environment-climate-change/news/2018/12/government-of-canada-releases-the-draft-2019-2022-federal-sustainable-development-strategy-for-public-consultation-and-the-2018-progress-report.html>

health-related concerns from coal emissions, minimize the carbon footprint of electricity generation, and transition to a clean energy economy.²⁶²⁷

On 12 December 2018, Environment and Climate Change Canada released new greenhouse gas regulations for natural gas and coal-fueled electricity. These regulations will support the conversion of coal-powered plants to natural gas-powered plants to reduce the emissions of electricity generation.²⁶²⁸

On 13 December 2018, at COP24 in Katowice, Poland, the government of Canada welcomed the nations of Israel, Senegal, Scotland, the cities of Sydney and Melbourne, and the energy supplier ScottishPower, to the Power Past Coal Alliance.²⁶²⁹ Initiated by the governments of Canada and the United Kingdom, the Powering Past Coal Alliance is an effort to facilitate the phase-out of coal power and support clean growth in various private, public and government entities.²⁶³⁰

On 18 December 2018, Minister McKenna “signed the new Agreement on Environmental Cooperation among the governments of Canada, the United States of America, and the United Mexican States.”²⁶³¹ The agreement involves trilateral cooperation in several areas, including low-carbon economies and clean growth.²⁶³²

On 20 December 2018, Minister McKenna initiated the Partnership stream of the Low Carbon Economy Challenge, valued at CAD50 million. The stream will fund projects focusing on emission reduction and clean growth for various civil society groups, including aboriginal communities and small to medium-sized enterprises (MSEs).²⁶³³ The Low Carbon Economy Challenge is a part of the government of Canada’s Low Carbon Economy Fund.²⁶³⁴

²⁶²⁷ News release: Canada’s coal power phase-out reaches another milestone, government of Canada (Ottawa) 12 December 2018. Access Date: 21 February 2019. <https://www.canada.ca/en/environment-climate-change/news/2018/12/canadas-coal-power-phase-out-reaches-another-milestone.html>

²⁶²⁸ Canada’s plan to reduce emissions from the electricity sector, government of Canada (Ottawa) 12 December 2018. Access Date: 21 February 2019. <https://www.canada.ca/en/environment-climate-change/news/2018/12/canadas-plan-to-reduce-emissions-from-the-electricity-sector.html>

²⁶²⁹ News release: The government of Canada welcomes new Powering Past Coal members and announces support for phasing out coal at home and abroad, government of Canada (Katowice) 14 December 2018. Access Date: 21 February 2019. <https://www.canada.ca/en/environment-climate-change/news/2018/12/the-government-of-canada-welcomes-new-powering-past-coal-members-and-announces-support-for-phasing-out-coal-at-home-and-abroad.html>

²⁶³⁰ Powering Past Coal Alliance Declaration, government of Canada (Ottawa) 13 December 2018. Access Date: 21 February 2019. <https://www.canada.ca/en/services/environment/weather/climatechange/canada-international-action/coal-phase-out/alliance-declaration.html>

²⁶³¹ News release: government of Canada signs environmental cooperation agreement with the United States and Mexico, government of Canada (Ottawa) 18 December 2018. Access Date: 21 February 2019. <https://www.canada.ca/en/environment-climate-change/news/2018/12/government-of-canada-signs-environmental-cooperation-agreement-with-the-united-states-and-mexico.html>

²⁶³² News release: government of Canada signs environmental cooperation agreement with the United States and Mexico, government of Canada (Ottawa) 18 December 2018. Access Date: 21 February 2019. <https://www.canada.ca/en/environment-climate-change/news/2018/12/government-of-canada-signs-environmental-cooperation-agreement-with-the-united-states-and-mexico.html>

²⁶³³ News release: government of Canada supporting Canadian ingenuity through the Low Carbon Economy Challenge, government of Canada (Ottawa) 20 December 2018. Access Date: 21 February 2019. <https://www.canada.ca/en/environment-climate-change/news/2018/12/government-of-canada-supporting-canadian-ingenuity-through-the-low-carbon-economy-challenge.html>

²⁶³⁴ Low Carbon Economy Challenge, government of Canada (Ottawa) 23 January 2019. Access Date: 21 February 2019. <https://www.canada.ca/en/environment-climate-change/services/climate-change/low-carbon-economy-fund/challenge.html>

On 10 January 2019, as part of the Low Carbon Economy Challenge’s Champions Stream, Minister McKenna announced award funding of CAD10 million to Enwave Energy Corporation’s deep lake water cooling system. The cooling system uses water from Lake Ontario to cool down buildings in the downtown Toronto area, thus reducing energy-related emissions.²⁶³⁵

On 25 January 2019, on behalf of Minister McKenna, Minister of Indigenous Services Seamus O’Regan and the Premier of Newfoundland and Labrador Dwight Ball announced that Newfoundland and Labrador will receive a total of CAD89 million in funding to improve residential energy savings and energy efficiency. This funding will support “the Home Energy Savings Program and Energy Efficiency and the new Fuel Switching in Public Buildings Program,” and it is part of the government of Canada’s Low Carbon Economy Fund.²⁶³⁶

On 12 February 2019, as part of the collaboration between the Pacific Climate Impacts Consortium and the Canadian Centre for Climate Services, the government of Canada announced funding of CAD1.25 million for the regional climate service centre at the University of Victoria. This investment and collaboration will support the propagation of climate research across Canada in order to build capacity from climate change related vulnerabilities.²⁶³⁷

On 12 February 2019, on behalf of Minister McKenna, Minister of Public Safety and Emergency Preparedness Ralph Goodale announced an investment of CAD1.3 million in scaling Regina’s landfill-gas-collection system. This system prevents the release of landfill emissions, notably greenhouse gas methane. The funding is part of the government of Canada’s Low Carbon Economy Fund.²⁶³⁸

On 15 February 2019, Minister McKenna announced funding through the Climate Action Fund to Ecology Ottawa for its Youth Climate Ambassadors program. The program will train 40 young Canadians in climate-related expertise and foster the next generation of environmental leaders.²⁶³⁹

On 20 February 2019, Minister McKenna announced CAD496,333 in funding for the Canada Green Building Council. This funding will facilitate awareness of climate change and support for the “design,

²⁶³⁵ News release: government of Canada supporting Canadian Innovation through the Low Carbon Economy Challenge, government of Canada (Toronto) 10 January 2019. Access Date: 28 February 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/01/government-of-canada-supporting-canadian-innovation-through-the-low-carbon-economy-challenge.html>

²⁶³⁶ News release: Canada and Newfoundland and Labrador announce funding to fight climate change, help homeowners save money, and improve energy efficiency in public buildings, government of Canada (St. Johns) 25 January 2019. Access Date: 26 February 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/01/canada-and-newfoundland-and-labrador-announce-funding-to-fight-climate-change-help-homeowners-save-money-and-improve-energy-efficiency-in-public-bu.html>

²⁶³⁷ government of Canada Collaborates with British Columbia’s Pacific Climate Impacts Consortium to bring climate expertise to Canadians, government of Canada (Ottawa) 12 February 2019. Access Date: 21 February 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/02/government-of-canada-collaborates-with-british-columbias-pacific-climate-impacts-consortium-to-bring-climate-expertise-to-canadians.html>

²⁶³⁸ News release: government of Canada supports climate action by City of Regina, government of Canada (Regina) 12 February 2019. Access Date: 26 February 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/02/government-of-canada-supports-climate-action-by-city-of-regina.html>

²⁶³⁹ government of Canada supports climate action to help Ottawa youth become environment leaders, government of Canada (Ottawa) 15 February 2019. Access Date: 14 March 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/02/government-of-canada-supports-climate-action-to-help-ottawa-youth-become-environment-leaders.html>

adoption, and application of zero carbon buildings.”²⁶⁴⁰ This funding is a part of the government of Canada’s Climate Action Fund, which provides financial assistance to projects that improve climate change awareness and further Canada’s climate goals.²⁶⁴¹

On 22 February 2019, Minister McKenna announced an investment of CAD1.25 million over the span of five years as part of the collaboration between Ouranos, a consortium of climate-scientists from Quebec, and the Canadian Centre for Climate Services. This collaboration and investment will support Ouranos in sharing climate change-related research and data throughout Canada, thereby building national capacity.²⁶⁴²

On 11 March 2019, on behalf of Minister McKenna, Member of Parliament for Dartmouth-Cole Harbour Darren Fisher announced financial support for the Clean Foundation’s Clean Climate Action School in Nova Scotia. The school provides Traditional Ecological Knowledge (TEK) and scientific-based teachings on climate change, encouraging students to take climate action and make energy-efficient choices. The funding is part of the government of Canada’s Climate Action Fund.²⁶⁴³

On 12 March 2019, on behalf of Minister McKenna, the leader of the government in the House of Commons and Member of Parliament for Waterloo Bardish Chagger announced CAD1.5 million in funding to help the region of Waterloo increase gas collection efficiency at the Waterloo Landfill facility. This project will further reduce carbon pollution and increase the generation of renewable electricity. This funding is part of Canada’s Low Carbon Economy Fund.²⁶⁴⁴

On 13 March 2019, on behalf of Minister McKenna, Member of Parliament for Calgary Centre Kent Hehr announced funding of CAD5.9 million to increase landfill gas collection and thereby reduce greenhouse gas emissions from the city of Calgary’s Waste & Recycling Services. This funding is part of the government of Canada’s Low Carbon Economy Fund.²⁶⁴⁵

On 13 March 2019, on behalf of Minister McKenna, Minister of Public Safety and Emergency Preparedness Ralph Goodale announced funding of CAD1.5 million to enhance energy efficiency in

²⁶⁴⁰ News release: government of Canada announces support to accelerate transition to zero carbon buildings, government of Canada (Ottawa) 20 February 2019. Access Date: 26 February 2019.

<https://www.canada.ca/en/environment-climate-change/news/2019/02/government-of-canada-announces-support-to-accelerate-transition-to-zero-carbon-buildings.html>

²⁶⁴¹ News release: government of Canada announces support to accelerate transition to zero carbon buildings, government of Canada (Ottawa) 20 February 2019. Access Date: 26 February 2019.

<https://www.canada.ca/en/environment-climate-change/news/2019/02/government-of-canada-announces-support-to-accelerate-transition-to-zero-carbon-buildings.html>

²⁶⁴² News release: government of Canada collaborates with Quebec’s Ouranos to bring climate expertise to Canadians, government of Canada (Montreal) 22 February 2019. Access Date: 26 February 2019.

<https://www.canada.ca/en/environment-climate-change/news/2019/02/government-of-canada-collaborates-with-quebecs-ouranos-to-bring-climate-expertise-to-canadians.html>

²⁶⁴³ News release: government of Canada supports climate education by Clean Foundation’s Clean Climate Action School, government of Canada (Dartmouth) 11 March 2019. Access Date: 8 June 2019.

<https://www.canada.ca/en/environment-climate-change/news/2019/03/government-of-canada-supports-climate-education-by-clean-foundations-clean-climate-action-school.html>

²⁶⁴⁴ government of Canada supports climate action by Region of Waterloo, government of Canada (Ottawa) 12 March 2019. Access Date: 19 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/03/government-of-canada-supports-climate-action-by-region-of-waterloo.html>

²⁶⁴⁵ News release: government of Canada supports climate action by City of Calgary, government of Canada (Calgary) 13 March 2019. Access Date: 7 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/03/government-of-canada-supports-climate-action-by-city-of-calgary.html>

ventilation, cooling, and heating systems in campus buildings at the University of Saskatchewan. This funding is part of the government of Canada's Low Carbon Economy Fund.²⁶⁴⁶

On 15 March 2019, on behalf of Minister McKenna, Member of Parliament for St. John's East announced funding of CAD11.4 million for Newfoundland and Labrador's Freight Transportation Fuel Efficiency Program and Climate Change Challenge Fund. An additional CAD8.6 million for the Energy Efficiency and Fuel Switching in Public Buildings Program was also announced. These initiatives will incentivize emission reductions from heavy-duty vehicles, fund projects to lower greenhouse gas emissions, and facilitate retrofits in schools and hospitals in the province.²⁶⁴⁷

On March 27, the Bank of Canada announced that it joined the Central Banks' and Supervisors Network for Greening the Financial System (NGFS).²⁶⁴⁸ Established in December 2017 at the One Planet Summit, the NGFS promotes best practices in "climate risk management for the financial sector" and analyzes green finance.

On 1 April 2019, Environment and Climate Change Canada released Canada's Changing Climate Report, the first stand-alone assessment detailing the causes, consequences, and future projections for Canada's changing climate. The report confirms that Canada has been warming at twice the global rate due to anthropogenic human emissions.²⁶⁴⁹

On 4 April 2019, Ministers of Seniors and Member of Parliament for Hamilton West-Ancaster-Dundas Filomena Tassi underscored funding of up to CAD262,000 for the Centre for Climate Change at Mohawk College. This funding intends to spur action and increase awareness about climate change in the Bay area. This funding is a part of the government of Canada's Climate Action Fund.²⁶⁵⁰

On 8 April 2019, Minister McKenna announced an investment of CAD12 million to help Loblaw's reduce emissions from its refrigeration systems. This funding is a part of the Low Carbon Economy Challenge's Champions Stream.²⁶⁵¹

On 9 April 2019, Minister McKenna announced the creation of the Pan-Canadian Expert Collaboration, an independent and policy-oriented national climate institute focused on clean growth and climate change. This institute will receive up to CAD20 million over five years to "generate,

²⁶⁴⁶ News release: government of Canada supports climate action by the University of Saskatchewan, government of Canada (Saskatoon) 13 March 2019. Access Date: <https://www.canada.ca/en/environment-climate-change/news/2019/03/government-of-canada-supports-climate-action-by-the-university-of-saskatchewan.html>

²⁶⁴⁷ News release: Canada and Newfoundland and Labrador announce funding to help tackle climate change with industry, municipalities, not-for-profit and Indigenous communities, government of Canada (St. Johns) 15 March 2019. Access Date: 5 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/03/canada-and-newfoundland-and-labrador-announce-funding-to-help-tackle-climate-change-with-industry-municipalities-not-for-profit-and-indigenous-comm.html>.

²⁶⁴⁸ Bank of Canada joins Central Banks' and Supervisors' Network for Greening the Financial System, Bank of Canada (Ottawa) 27 March 2019. Access Date: 21 August 2019. <https://www.bankofcanada.ca/2019/03/bank-canada-joins-central-banks-supervisors-network/>.

²⁶⁴⁹ News release: Canada's climate is warming twice as fast as global average, government of Canada (Ottawa) 2 April 2019. Access Date: 8 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/04/canadas-climate-is-warming-twice-as-fast-as-global-average.html>

²⁶⁵⁰ News release: government of Canada supports climate action by Mohawk College to empower young people and reduce carbon pollution, government of Canada (Hamilton) 4 April 2019. Access Date: 5 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/04/government-of-canada-supports-climate-action-by-mohawk-college-to-empower-young-people-and-reduce-carbon-pollution.html>

²⁶⁵¹ News release: government of Canada supports climate action by Loblaw, government of Canada (Ottawa) 8 April 2019. Access Date: 5 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/04/government-of-canada-supports-climate-action-by-loblaw.html>

communicate, and mobilize trusted information, policy advice, and best practices for Canadians, governments, and stakeholders.”²⁶⁵²

On 16 April 2019, on behalf of Minister McKenna, Parliamentary Secretary to the Minister of Immigration, Refugees and Citizenship Matt DeCoursey announced investment in New Brunswick’s Science East Science Centre to increase awareness of climate change and environmental issues. This investment is funded through the government of Canada’s Climate Action Fund.²⁶⁵³

On 18 April 2019, on behalf of Minister McKenna, Minister of International Development and Minister for Women and Gender Equality Maryam Monsef announced funding of up to CAD200,000 in support of a mobile application by Random Acts of Green. This funding will enable users to better understand the impacts of their everyday choices on climate change. This funding is part of the government of Canada’s Climate Action Fund.²⁶⁵⁴

On 18 April 2019, Minister McKenna and British Columbia’s Minister of Environment and Climate Change Strategy George Heyman announced CAD10 million in federal funding for British Columbia’s Organic Infrastructure Program and CAD140 million for its Forest Carbon Initiative. This funding is part of the government of Canada’s Low Carbon Economy Fund, and it will help British Columbia improve carbon sequestration and reduce organic material decomposition in landfills.²⁶⁵⁵

On 29 April 2019, Minister McKenna announced new funding of up to CAD3 million for the Climate Action Fund for 2019-20. This funding will encourage Canadians to take action and support projects that raise awareness about climate change and clean growth.²⁶⁵⁶

On 10 May 2019, on behalf of Minister McKenna, Member of Parliament for Northwest Territories Michael McLeod and Minister of Infrastructure and Industry, Tourism and Investment for the government of the Northwest Territories, Wally Schumann, announced funding of CAD8 million to reduce emissions from transportation, electricity, and heating. This funding for the government of the Northwest Territories’ Greenhouse Gas Grant Program for Buildings and Industry is a part of the government of Canada’s Low Carbon Economy Fund.²⁶⁵⁷

²⁶⁵² government of Canada announces winning bid to create new independent climate institute, government of Canada (Ottawa) 9 April 2019. Access Date: 19 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/04/government-of-canada-announces-winning-bid-to-create-new-independent-climate-institute.html>

²⁶⁵³ News release: Canada supports climate education by New Brunswick’s Science East Science Centre, government of Canada (Fredericton) 16 April 2019. Access Date: 5 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/04/canada-supports-climate-education-by-new-brunswicks-science-east-science-centre.html>

²⁶⁵⁴ News release: Canada supports climate action by Random Acts of Green, government of Canada (Peterborough) 18 April 2019. Access Date: 5 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/04/canada-supports-climate-action-by-random-acts-of-green.html>

²⁶⁵⁵ News release: Canada and British Columbia announce funding to help tackle climate change and reduce emissions, government of Canada (Vancouver) 18 April 2019. Access Date: 5 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/04/canada-and-british-columbia-announce-funding-to-help-tackle-climate-change-and-reduce-emissions.html>

²⁶⁵⁶ Climate Action Fund launches new call for applications for 2019-2020, government of Canada (Ottawa) 29 April 2019. Access Date: 19 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/04/climate-action-fund-launches-new-call-for-applications-for-2019-2020.html>

²⁶⁵⁷ News release: Canada and Northwest Territories announce climate action to reduce industrial and commercial pollution, government of Canada (Yellowknife) 10 May 2019. Access Date: 3 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/05/canada-and-northwest-territories-announce-climate-action-to-reduce-industrial-and-commercial-pollution.html>

On 22 May 2019, on behalf of Minister McKenna, Member of Parliament for Ottawa-Vanier Mona Fortier announced funding of up to CAD468,000 for the University of Ottawa's Smart Prosperity Institute and Institute of Environment. This investment will support the university's Clean Growth Summit and its research on how policies can help Canada meet its climate targets.²⁶⁵⁸

On 6 June 2019, on behalf of Minister McKenna, Member of Parliament for Guelph Lloyd Longfield announced federal funding for the National Farmers Union Ontario. This funding will improve farmers' climate awareness and provide education on climate change to encourage climate action. This funding is part of the government of Canada's Climate Action Fund.²⁶⁵⁹

On 7 June 2019, Minister McKenna, Minister of Crown-Indigenous Relations Carolyn Bennett, and Minister of Indigenous Services Seamus O'Regan jointly announced an investment of CAD1 million to implement the National Inuit Climate Change Strategy (NICCS). Some of the outcomes of this collaboration between the government of Canada and the Inuit are to support Inuit community projects on energy, reduce the vulnerability of Inuit food systems to changing climates, and improve Inuit knowledge in climate change-related decision-making.²⁶⁶⁰

On 7 June 2019, on behalf of Minister McKenna, Member of Parliament for Yukon Larry Bagnell, Deputy Premier and Minister of Energy Mines and Resources Ranj Pillai, and Minister of Environment and Minister responsible for Yukon Housing Corporation Pauline Frost jointly announced funding of up to CAD31 million for the government of Yukon. This funding will support energy efficient retrofits in public and private buildings.²⁶⁶¹

On 7 June 2019, Canada announced funding of CAD115,000 for a second workshop under the Canada-France Climate and Environment Partnership. This workshop will provide training for Francophone women climate negotiators from sub-Saharan Africa and support their efforts in international discussions, decision-making, and the development of climate change policies at the 25th Conference of Parties (COP24) in Santiago, Chile.²⁶⁶²

On 10 June 2019, on behalf of Minister McKenna, the Parliamentary Secretary to the Minister for Women and Gender Equality and Member of Parliament for Winnipeg South Terry Duguid joined the Minister of Sustainable Development for the government of Manitoba Rochelle Squires to

²⁶⁵⁸ News release: government of Canada supports climate action by Smart Prosperity Institute and the Institute of the Environment at the University of Ottawa, government of Canada (Ottawa) 22 May 2019. Access Date: 3 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/05/government-of-canada-supports-climate-action-by-smart-prosperity-institute-and-the-institute-of-the-environment-at-the-university-of-ottawa.html>

²⁶⁵⁹ News release: government of Canada supports climate education and awareness by National Farmers Union – Ontario, government of Canada (Guelph) 6 June 2019. Access Date: 8 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/06/government-of-canada-supports-climate-education-and-awareness-by-national-farmers-union--ontario.html>

²⁶⁶⁰ News release: government of Canada supports Inuit-led climate change strategy, government of Canada (Inuvik) 7 June 2019. Access Date: 8 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/06/government-of-canada-supports-inuit-led-climate-change-strategy.html>

²⁶⁶¹ News release: Canada and Yukon announce climate action to help families, businesses, and industry reduce pollution, government of Canada (Whitehorse) 7 June 2019. Access Date: 8 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/06/canada-and-yukon-announce-climate-action-to-help-families-businesses-and-industry-reduce-pollution.html>

²⁶⁶² Canada Provides Training to Franco-African Women Climate Leaders, government of Canada (Ottawa) 7 June 2019. Access Date: 19 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/06/canada-provides-training-to-franco-african-women-climate-leaders.html>

announce federal funding of up to CAD5.9 million. This funding aims to improve the fuel efficiency of heavy-duty vehicles.²⁶⁶³

Canada has taken ambitious climate action to implement the Paris Agreement through enacting regulations, such as the Greenhouse Gas Pollution Pricing Act, the phase-out of coal-powered electricity by 2030, and pledging funds at national and international levels to support mitigation and adaptation activities. Canada has also pledged additional funding for the National Adaptation Plan Global Network and the Global Commission on Adaptation to help developing countries identify resilience solutions and adapt to the impacts of climate change.

Thus, Canada receives a score of +1.

Analyst: Vibhor Rohatgi

France: +1

France has fully complied with its commitment to reaffirm its strong commitment to implement the Paris Agreement, through ambitious climate action; in particular through strengthening and financing resilience and reducing vulnerability.

On 12 June 2018, at a meeting of European Energy Ministers in Luxembourg to finalize reforms of the European energy policy within the framework “clean energy,” Secretary of State to the Minister for the Ecological and Inclusive Transition Brune Poirson stated that France will continue to ensure a sustainable energy transition that is compatible with the European Union’s commitments under the Paris Agreement.²⁶⁶⁴

On 25 June 2018, Environment Minister Nicolas Hulot and Secretary of State to the Minister for the Ecological and Inclusive Transition Brune Poirson signed a declaration calling upon Europe to raise its climate ambition ahead of 24th Conference to the Parties to the United Nations Framework Convention on Climate Change in December 2018, and go beyond the stated goal of a 40 percent reduction in greenhouse gas emissions by 2030. Hulot and Poirson also underscored the need to bring the European Union’s trade policy into line with the objectives of the Paris Agreement, calling upon EU member states to include binding elements of the Paris Agreement in trade agreements.²⁶⁶⁵

On 27 June 2018, France indicated its support for an EU proposal to increase its binding renewable energy target from 27 percent to 32 percent by 2030 while limiting the use of biofuels.²⁶⁶⁶

On 26 September 2018, during the One Planet Summit, France launched the Joint Pacific Initiative for Biodiversity, Climate Change, and Resilience alongside the EU, Australia and New Zealand. The EUR21 million initiative received EUR10 million each from France and the EU, with the remaining

²⁶⁶³ Canada and Manitoba announce climate action in the transportation sector, government of Canada (Winnipeg) 10 June 2019. Access Date: 19 June 2019. <https://www.canada.ca/en/environment-climate-change/news/2019/06/canada-and-manitoba-announce-climate-action-in-the-transportation-sector.html>

²⁶⁶⁴ Conseil des Ministres européens de l’Énergie, Ministère de la Transition écologique et solidaire (Paris) 12 June 2018. Access Date: 3 November 2018. <https://www.ecologique-solidaire.gouv.fr/conseil-des-ministres-europeens-lenergie>

²⁶⁶⁵ Conseil des ministres européens de l’environnement: La France emmène l’Europe sur la voie de l’ambition, Ministère de la Transition écologique et solidaire (Paris) 25 June 2018. Access Date: 2 November 2018. <https://www.ecologique-solidaire.gouv.fr/conseil-des-ministres-europeens-lenvironnement-france-emmene-leurope-sur-voie-lambition>

²⁶⁶⁶ Directive sur les énergies renouvelables: la France se rejouit de l’accord intervenu au Conseil de l’Union européenne, Ministère de la Transition écologique et solidaire (Paris) 27 June 2018. Access Date: 3 November 2018. <https://www.ecologique-solidaire.gouv.fr/directive-sur-energies-renouvelables-france-se-rejouit-laccord-intervenu-au-conseil-lunion>

EUR2 million provided by Australia and New Zealand. The aim of this initiative is to build an international coalition for climate action and biodiversity protection.²⁶⁶⁷

On 3 October 2018, Secretary of State to the Minister for the Ecological and Inclusive Transition Brune Poirson co-chaired the first general assembly of the International Solar Alliance (ISA), an initiative created at the One Planet Summit. The general assembly was also co-chaired by her Indian counterpart Raj Kumar Singh, Minister of Electricity and New and Renewable Energies. The ISA's mission is to accelerate the deployment of solar energy, mainly in African countries, with the ambition to broaden its geographical scope in the coming years.²⁶⁶⁸

On 9 October 2018, France indicated its strong support for a new goal agreed to by the Council of European Environment Ministers regarding the reduction of automobile carbon dioxide emissions. This new goal sets the reduction target of new vehicles' emissions to 35 percent by 2030. In addition, France introduced a clause allowing for a revision of the emission reduction goal in 2023 depending on actual emissions levels.²⁶⁶⁹

On 22 November 2018, President Emmanuel Macron reiterated his commitment to climate action at the Climate Vulnerable Summit. This summit was hosted by the Climate Vulnerable Forum, an international cooperation group of developing countries on climate change.²⁶⁷⁰ Macron stated that countries should “present new more ambitious national contributions and increase the pace of their implementation,” and that “France will stay on course.”²⁶⁷¹

On 26-28 November 2018, the 4th Climate Finance Day was held in Paris with the theme of “Financing Sustainable Development Goals and the Climate Agenda: Innovation and Impact.” This global roundtable served as a platform for key networking, partnership-building, and facilitation of the mobilization of sustainable climate finance.²⁶⁷² This event mobilized the financial sector in delivering on the Paris Agreement while showcasing innovative action to transform thinking and strategies to deliver positive climate impact. Secretary of State to the Minister for the Ecological and Inclusive Transition Brune Poirson stated at the opening of the forum: “today, we have to talk about how to turn climate finance into mainstream finance, to talk about the finance we need, to build a more sustainable and inclusive world.”²⁶⁷³

²⁶⁶⁷ Joint Communique on the Launch of the Joint Pacific Initiative for Biodiversity, Climate Change and Resilience, European Commission. 26 September 2018. Access Date: 3 November 2018. https://ec.europa.eu/europeaid/news-and-events/launch-joint-pacific-initiative-biodiversity-climate-change-and-resilience_en

²⁶⁶⁸ Première assemblée de l'Alliance solaire internationale, Ministère de la Transition écologique et solidaire (Paris) 3 October 2018. Access Date: 3 November 2018. <https://www.ecologique-solidaire.gouv.fr/premiere-assemblee-lalliance-solaire-internationale>

²⁶⁶⁹ CO2: a new European goal to ensure that new vehicles consume less fuel, Government of France (Paris) 9 October 2018. Access Date: 3 November 2018. <https://www.gouvernement.fr/en/co2-a-new-european-goal-to-ensure-that-new-vehicles-consume-less-fuel>

²⁶⁷⁰ Leaders Call for Increased Ambition at Climate Vulnerable Summit, IISD (Ottawa) 29 November 2018, Access Date: 1 December 2018, <http://sdg.iisd.org/news/leaders-call-for-increased-ambition-at-climate-vulnerable-summit/>

²⁶⁷¹ Climate Threatened Nations' Leaders in First Virtual Summit, Climate Vulnerable Forum (Majuro) 22 November 2018. Access Date: 12 December 2018. <https://thecvf.org/climate-threatened-nations-leaders-in-first-virtual-summit/>

²⁶⁷² “Financing Sustainable Development Goals and the Paris Climate Agenda: Innovation and Impact”, Paris 2018 Climate Finance Day (Paris) 28 November 2018. Access Date: 22 December 2018.

http://www.climatefinanceday.com/wp-content/uploads/2018/12/GRTCFD2018-PR-Day3_EN.pdf

²⁶⁷³ “Financing Sustainable Development Goals and the Paris Climate Agenda: Innovation and Impact”, Paris 2018 Climate Finance Day (Paris) 28 November 2018. Access Date: 22 December 2018

http://www.climatefinanceday.com/wp-content/uploads/2018/12/GRTCFD2018-PR-Day3_EN.pdf

On 5 December 2018, in response to street protests, President Emmanuel Macron cancelled a fuel tax that would have increased gasoline prices by 3 percent.²⁶⁷⁴

On 24 January 2019, in an effort to reduce global warming caused by household oil boilers, François de Rugy, Minister of State, Minister of the Ecological and Solidarity Transition, and Julien Denormandie, Minister of Territorial Cohesion and Relations, introduced a boiler conversion bonus.²⁶⁷⁵ This initiative will help modest households replace their boilers for a greener and more economical heating system. It will also help France reach the ambitious target of zero oil boilers in ten years.²⁶⁷⁶

On 21 February 2019, with the support of the Ellen MacArthur Foundation, Secretary of State to the Minister for the Ecological and Inclusive Transition Brune Poirson signed the National Pact on Plastic Packaging with various companies and two non-governmental organizations.²⁶⁷⁷ The pact engages various beneficiaries to become actors of the circular economy, and strives to ensure that plastic never becomes waste.²⁶⁷⁸

On 22 February 2019, François de Rugy, Minister of State, Minister of the Ecological and Solidarity Transition, announced six new programmes under the Energy Savings Certificates scheme. The programmes support energy efficiency measures for small and medium-sized enterprises, the development of greener building standards, and de-carbonisation in the transport sector. These programmes join another 28 programmes that are already in place.²⁶⁷⁹

On 15 March 2019, during the One Planet Summit held in Kenya, L'Agence française de développement (AFD) announced EUR1.5 billion in funding for solar projects in Africa by 2022. In addition, in partnership with the Trade Development Bank, AFD will provide a USD120 million credit line solely for climate projects.²⁶⁸⁰

²⁶⁷⁴ France's fuel tax retreat dismays COP24 climate talks, Politico, Paris France, 05/12/2018, Access Date: 05/12/2018, <https://www.politico.eu/article/france-fuel-tax-retreat-dismays-cop24-climate-change-summit/>

²⁶⁷⁵ François de Rugy and Julien Denormandie announce the progressive launch of the boiler conversion bonus, Ministry of Solidarity and Ecological Transition (Paris) 24 January 2019. Access Date: 1 March 2019. <http://www.cohesion-territoires.gouv.fr/francois-de-rugy-et-julien-denormandie-annoncent-le-lancement-progressif-de-la-prime-a-la-conversion-des-chaudieres>.

²⁶⁷⁶ François de Rugy and Julien Denormandie announce the progressive launch of the boiler conversion bonus, Ministry of Solidarity and Ecological Transition (Paris) 24 January 2019. Access Date: 1 March 2019. <https://www.ecologique-solidaire.gouv.fr/communique-presse-francois-rugy-et-julien-denormandie-annoncent-lancement-progressif-prime>.

²⁶⁷⁷ Signature of the "National Pact on Plastic Packaging, Ministry of Solidarity and Ecological Transition (Paris) 21 February 2019. Access Date: 1 March 2019. <https://www.ecologique-solidaire.gouv.fr/signature-du-pacte-national-sur-emballages-plastiques>

²⁶⁷⁸ Signature of the "National Pact on Plastic Packaging, Ministry of Solidarity and Ecological Transition (Paris) 21 February 2019. Access Date: 1 March 2019. <https://www.ecologique-solidaire.gouv.fr/signature-du-pacte-national-sur-emballages-plastiques>

²⁶⁷⁹ François de Rugy sélectionne une troisième série de 6 nouveaux programmes d'économies d'énergie portant à 34 le nombre de lauréats retenus, représentant un montant de 239 M€, Ministry of Solidarity and Ecological Transition (Paris) 22 February 2019. Access Date: 14 March 2019. <https://www.ecologique-solidaire.gouv.fr/francois-rugy-selectionne-troisieme-serie-6-nouveaux-programmes-deconomies-denergie-portant-34>

²⁶⁸⁰ One Planet Summit au Kenya : « L'engagement de l'Afrique », Ministry of Solidarity and Ecological Transition (Paris) 15 March 2019. Access Date 19 June 2019. <https://www.ecologique-solidaire.gouv.fr/one-planet-summit-au-kenya-lengagement-lafrique>

On 16 April 2019, François de Rugy, Minister of State, Minister of the Ecological and Solidarity Transition, announced funding of some EUR1.3 million for 19 “Low Emission Zone” projects. The funding will be used to study the feasibility and implementation of the zones.²⁶⁸¹

On 23 April 2019, the French government announced the creation of the low-carbon label, which is the first carbon certification framework adopted by France. Its objective is to encourage the development of projects that reduce and sequester greenhouse gas emissions, particularly in the forestry and agriculture sectors.²⁶⁸²

On 30 April 2019, François de Rugy, Minister of State, Minister of the Ecological and Solidarity Transition presented a bill on energy and the climate with the aim of legally enshrining France’s goal of achieving zero net greenhouse gas emissions by 2050. The bill proposed the termination of coal-based electricity by 2022, and encouraged the accelerated reduction of fossil fuel energy consumption, reducing it by 40 per cent by 2030 rather than the initial 30 per cent.²⁶⁸³

On 6 May 2019, the G7 Environment Ministers adopted a communiqué and the Metz Charter on Biodiversity at the G7 Environment Ministers’ Meeting.²⁶⁸⁴ The French G7 Presidency identified four main priorities for its current leadership: 1) combating inequality through an inclusive ecological transition; 2) supporting international action and scientific warnings on biodiversity and climate change; 3) promoting solutions for biodiversity and climate change; and 4) financing biodiversity preservation.²⁶⁸⁵

On 7 May 2019, the French government launched a new call for proposals inviting innovation in energy savings initiatives under the Energy Savings Certificates scheme. The programme will focus on energy efficient mobility, energy saving awareness and public education campaigns, which will be operationalised by 2020.²⁶⁸⁶

On 4 June 2019, François de Rugy, Minister of State, Minister of the Ecological and Solidarity Transition, announced 20 new winners under the GreenTech initiative for the first half of 2019.

²⁶⁸¹ Zones à faibles émissions :19 collectivités s’engagent pour la qualité de l’air, Ministry of Solidarity and Ecological Transition (Paris) 16 April 2019. Access Date: 19 June 2019. <https://www.ecologique-solidaire.gouv.fr/zones-faibles-emissions-19-collectivites-sengagent-qualite-lair>

²⁶⁸² Le Gouvernement lance le label bas-carbone, un outil pour encourager et récompenser les actions locales en faveur du climat, Ministry of Solidarity and Ecological Transition (Paris) 23 April 2019. Access Date: 19 June 2019. <https://www.ecologique-solidaire.gouv.fr/gouvernement-lance-label-bas-carbone-outil-encourager-et-recompenser-actions-locales-en-faveur-du>

²⁶⁸³ France wants to be the first country in Europe to put the carbon neutrality goal on a statutory footing, government of France (Paris) 3 May 2019. Access Date: 19 June 2019. <https://www.gouvernement.fr/en/france-wants-to-be-the-first-country-in-europe-to-put-the-carbon-neutrality-goal-on-a-statutory>

²⁶⁸⁴ G7 Environment Ministers Commit to Fight Biodiversity Loss, Tackle Climate Change, Inequalities, IISD SDG Knowledge Hub. 4 June 2019. Access Date: 12 June 2019. <https://sdg.iisd.org/news/g7-environment-ministers-commit-to-fight-biodiversity-loss-tackle-climate-change-inequalities/>

²⁶⁸⁵ G7 Environment Ministers Commit to Fight Biodiversity Loss, Tackle Climate Change, Inequalities, IISD SDG Knowledge Hub. 4 June 2019. Access Date: 12 June 2019. <https://sdg.iisd.org/news/g7-environment-ministers-commit-to-fight-biodiversity-loss-tackle-climate-change-inequalities/>

²⁶⁸⁶ Un nouvel appel à programme CEE est ouvert en 2019 pour les économies d’énergie Outre-mer et la mobilité économe en énergie fossile, Ministry of Solidarity and Ecological Transition (Paris) 7 May 2019. Access Date: 19 June 2019. <https://www.ecologique-solidaire.gouv.fr/nouvel-appel-programme-cee-est-ouvert-en-2019-economies-denergie-outre-mer-et-mobilite-econome-en>

These 20 start-ups will receive ministry support to grow and commercialize their technologies in energy and climate innovation.²⁶⁸⁷

On 6 June 2019, the French government proposed a new tax on flights within Europe to encourage greener forms of transport.²⁶⁸⁸ The charge will be an extra fee on fuel or tickets, even including changes in the European emissions trading system. President Macron has supported this new levy in an effort to boast his own “green credentials.”²⁶⁸⁹

France has taken ambitious climate action to implement the Paris Agreement, while also supporting adaptation activities through its contribution of funds to programs such as the Joint Pacific Initiative for Biodiversity, Climate Change, and Resilience.

Thus, France receives a score of +1.

Analyst: Natasha Pirzada

Germany: +1

Germany has fully complied with its commitment to reaffirm its strong commitment to implement the Paris Agreement, through ambitious climate action; in particular through strengthening and financing resilience and reducing vulnerability.

On 13 June 2018, the cabinet adopted the Climate Action Report 2017. The report lists approximately 110 climate-related measures and describes in detail how much carbon dioxide reductions can be achieved through the implementation of these measures by 2020.²⁶⁹⁰

On 18-19 June 2018, the Federal Environment Ministry co-hosted the 9th Petersberg Climate Dialogue in Berlin alongside the government of Poland. The conference concluded with a clear commitment to the ambitious and socially compatible implementation of the Paris Agreement.²⁶⁹¹

On 14 August 2018, the federal government announced it will invest over EUR130 million to support the implementation of projects aiming to reduce the levels of nitrogen oxides in the air. The Federal Minister for the Environment Svenja Schulze stressed that these new measures are an important contribution to protecting the environment and consumers.²⁶⁹²

On 26 September 2018, the Ministry for the Environment announced that it will join the Climate Finance Partnership. The partnership works to design an investment structure that promotes contributions to a targeted set of sectors, including renewable energy, energy efficiency, energy

²⁶⁸⁷ GreenTech verte : François de Rugy apporte son soutien à 20 start-up de la GreenTech verte, Ministry of Solidarity and Ecological Transition (Paris) 4 June 2019. Access Date: 19 June 2019. <https://www.ecologique-solidaire.gouv.fr/greentech-verte-francois-rugy-apporte-soutien-20-start-greentech-verte>

²⁶⁸⁸ 'Polluter pays': France to propose new tax on flights in Europe, The Local (Stockholm) 6 June 2019. Access Date: 12 June 2019. <https://www.thelocal.fr/20190606/polluter-pays-france-to-propose-new-tax-on-flights-in-europe>

²⁶⁸⁹ 'Polluter pays': France to propose new tax on flights in Europe, The Local (Stockholm) 6 June 2019. Access Date: 12 June 2019. <https://www.thelocal.fr/20190606/polluter-pays-france-to-propose-new-tax-on-flights-in-europe>

²⁶⁹⁰ Cabinet adopts 3rd Climate Action Report, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Bonn) 13 June 2018. Access Date: 28 October 2018. <https://www.bmu.de/en/pressrelease/cabinet-adopts-3rd-climate-action-report/>

²⁶⁹¹ Petersberg Climate Dialogue: Climate action and equity go hand in hand, Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (Bonn) 19 June 2018. Access Date: 28 October 2018. <https://www.bmu.de/en/pressrelease/petersberger-klimadialog-klimaschutz-und-gerechtigkeit-gehoren-zusammen/>

²⁶⁹² Clean air — good transport concepts help, The German Federal Government (Berlin) 14 August 2018. Access Date: 28 October 2018. <https://www.bundesregierung.de/breg-en/news/clear-air-good-transport-concepts-help-1510818>

storage, and low-carbon and electrified transportation. Such funds will be used across countries in three regions, including Latin America, Asia, and Africa.²⁶⁹³

On 12 October 2018, in partnership with the World Bank Group and the United Kingdom, the federal government announced the establishment of a USD145-million Global Risk Financing Facility (GRiF) to help vulnerable countries manage the financial impact of climate change and natural hazard-induced shocks.²⁶⁹⁴

On 25 November 2018, Ambassador to Iran Michael Klor-Berchtold announced that the Ministry for Environment will support Iran's development on its energy efficiency market by 2021, and provide up to EUR3.5 million for the implementation of integrated energy efficiency projects.²⁶⁹⁵

On 27 November 2018, the Coal Exit Commission announced that it will extend its work beyond the original 2018 deadline and instead conclude its work on 1 February 2019. The Commission was originally supposed to present its plan to help Germany achieve its 2020 climate targets ahead of the 24th Conference of the Parties to the United Nations Framework Convention on Climate Change in Katowice, Poland.²⁶⁹⁶

On 3 December 2018, after meeting with municipal and cities representatives, the federal government agreed to increase funding for the Clean Air program from EUR1 billion to EUR1.5 billion, in an effort to cut emissions from municipal vehicles. Moreover, an additional EUR432 million will be allocated to retro-fitting smaller trucks with older diesel engines.²⁶⁹⁷

On 3 December 2018, along with the Ministry for Development, the Ministry for Environment stated during COP24 that Germany would double its pledge to the Green Climate Fund, amounting to a total contribution of EUR1.5 billion. This pledge aims to support the implementation of the Paris Agreement and global cooperation to tackle climate change.²⁶⁹⁸

On 7 December 2018, Germany provided a loan of EUR90 million and a grant of EUR3 million for the Rebuild Kerala initiative, which seeks to support Kerala's efforts in rebuilding climate-resilient public infrastructure.²⁶⁹⁹

²⁶⁹³ One Planet Summit 2018 announcements, PR Newswire (New York) 26 September 2018. Access Date: 28 October 2018. <https://www.prnewswire.com/news-releases/one-planet-summit-2018-announcements-300719892.html>

²⁶⁹⁴ World Bank Group, Germany, and UK Launch \$145 Million Financing Facility to Support Earlier Action on Climate and Disaster Shocks, World Bank (Washington) 12 October 2018. Access Date: 28 October 2018. <https://www.worldbank.org/en/news/press-release/2018/10/12/world-bank-group-germany-and-uk-launch-145-million-financing-facility-to-support-earlier-action-on-climate-and-disaster-shocks>

²⁶⁹⁵ Iran, Germany kick off co-op on energy efficiency market, Tehran Times (Tehran) 25 November 2018. Access Date: 1 December 2018. <https://www.tehrantimes.com/news/429871/Iran-Germany-kick-off-co-op-on-energy-efficiency-market>

²⁶⁹⁶ Germany's coal exit commission extends work to 2019, Clean Energy Wire (Berlin) 27 November 2018. Access Date: 1 December 2018. <https://www.cleanenergywire.org/news/germanys-coal-exit-commission-extends-work-2019>

²⁶⁹⁷ German cities get more funding for air quality, but retro-fitting plan still to come, Deutsche Welle (Berlin) 3 December 2018. Access Date: 5 December 2018. <https://www.dw.com/en/german-cities-get-more-funding-for-air-quality-but-retro-fitting-plan-still-to-come/a-46565361>

²⁶⁹⁸ Environment Minister Schulze and Development Minister Müller in Katowice: Germany to double pledge for Green Climate Fund, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 3 December 2018. Access Date: 5 December 2018. <https://www.bmu.de/en/pressrelease/schulze-und-mueller-in-kattowitz-deutschland-verdoppelt-zusage-fuer-internationalen-klimafonds/>

²⁶⁹⁹ Germany Offers Aid Package to Help Flood Hit Kerala, Times of India (Thiruvananthapuram) 7 December 2018. Access Date: 7 December 2018. <https://timesofindia.indiatimes.com/india/germany-offers-massive-aid-package-to-help-flood-hit-kerala/articleshow/66992391.cms>

On 11 December 2018, the Federal Environment Ministry announced that it will dedicate an additional EUR70 million to the Adaptation Fund. To date, Germany is the largest donor to the fund with a total contribution of EUR240 million.²⁷⁰⁰

On 12 December 2018, the Federal Environment Ministry announced that it will support the exchange of experience between Europe's coal regions. The Ministry's European Climate Initiative (EUKI) supports projects on socially just strategies.²⁷⁰¹

On 12 December 2018, at the Conference of Parties in Katowice, the Federal Ministry for Economic Cooperation and Development and the Federal Environment Ministry announced that Germany will further support the global partnership for implementing Nationally Determined Contributions with EUR68 million in funding. To date, Germany's total contribution to this partnership amounts to EUR130 million.²⁷⁰²

On 25 January 2019, Germany announced its intention to shut down all coal-fired power plants by 2038, proposing at least EUR40 billion in aid to affected regions.²⁷⁰³

On 13 February 2018, the Federal Environment Ministry and its Indian counterpart agreed on promoting closer cooperation on environmental and climate policy and preventing marine litter. Germany will fund Indian climate action projects with EUR35 million.²⁷⁰⁴

On 22 February 2019, the Federal Environment Ministry pledged to cut gas emissions by at least 95% by 2050 and remove the remainder from the atmosphere.²⁷⁰⁵

On 1 March 2019, the Federal Environment Ministry announced the third call for proposals under the EUKI, whereby non-profit organisations can submit project ideas aimed at accelerating the implementation of the Paris Agreement in Europe and contributing to intra-European dialogue. Federal Environment Minister Svenja Schulze stated: "we launched EUKI based on the conviction that we have to act in concert on behalf of climate action in Europe. The upcoming transformation

²⁷⁰⁰ Germany boosts international fund for adaptation to climate change with 70 million euros, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 11 December 2018. Access Date: 20 February 2019. <https://www.bmu.de/en/pressrelease/deutschland-staerkt-internationalen-fonds-zur-anpassung-an-den-klimawandel-mit-70-millionen-euro/>

²⁷⁰¹ Just transition: Germany supporting exchange of experience between European coal regions, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 12 December 2018. Access Date: 20 February 2019. <https://www.bmu.de/en/pressrelease/just-transition-bundesumweltministerium-foerdert-austausch-von-kohleregionen-in-europa/>

²⁷⁰² Germany helps developing countries and emerging economies implement climate targets, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 12 December 2018. Access Date: 20 February 2019. <https://www.bmu.de/en/pressrelease/deutschland-hilft-entwicklungs-und-schwellenlaendern-bei-umsetzung-ihrer-klimaziele/>

²⁷⁰³ Germany to phase out coal by 2038 in move away from fossil fuels, Reuters (Berlin) 25 January 2019. Access Date: 25 February 2019. <https://www.reuters.com/article/us-germany-energy-coal/germany-to-phase-out-coal-by-2038-in-move-away-from-fossil-fuels-idUSKCN1PK04L>

²⁷⁰⁴ Minister Schulze agrees closer environmental cooperation with India, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 13 February 2019. Access Date: 25 February 2019. <https://www.bmu.de/en/pressrelease/schulze-vereinbart-engere-umweltzusammenarbeit-mit-indien/>

²⁷⁰⁵ Environment ministry draft law aims to tighten Germany's climate targets, Clean Energy Wire (Berlin) 22 February 2019. Access Date: 25 February 2019. <https://www.cleanenergywire.org/news/env-min-law-draft-calls-tightening-germanys-climate-targets>

of our economy and society can only be successful if we follow a European approach, across national borders.”²⁷⁰⁶

On 14 March 2019, at the fourth session of the UN Environment Assembly, the Federal Environment Ministry invited decision-makers and experts to discuss the management of international chemicals beyond 2020. Germany will advocate for the introduction of goals for chemical and waste management at the following fifth session of the International Conference on Chemicals Management.²⁷⁰⁷

On 26 March 2019, the Federal Environment Ministry called for programme ideas on ambitious climate and biodiversity conservation in developing countries and emerging economies, such as reducing greenhouse gas emissions and promoting adaptation to climate change. The call was funded by the International Climate Initiative with funds of EUR240 million, and each programme can receive between EUR5 and EUR20 million.²⁷⁰⁸

On 4 April 2019, the Federal Environment Ministry promoted local climate action with the National Climate Initiative at the Alpine Conference, held from 3-4 April 2019 in Innsbruck. Three ministers of the nine contracting parties of the Alpine Convention agreed to increased cooperation on climate action and soil protection in the Alps.²⁷⁰⁹

On 15 May 2019, Chancellor Angela Merkel addressed a session of the Petersberg Climate Dialogue in Berlin to promote the goal of becoming carbon-neutral by 2050.²⁷¹⁰ The Petersberg Climate Dialogue is a joint initiative between Germany and Chile focused on the implementation of the Paris Agreement and increasing ambition in international climate policy.²⁷¹¹

On 29 May 2019, the Franco-German Meseberg Climate Group, comprised of all ministries working on climate change, met to discuss how to achieve carbon neutrality by 2050 in the energy, transport,

²⁷⁰⁶ The goal is cross-border cooperation between European organisations on climate action projects, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 1 March 2019. Access Date: 14 February 2019. <https://www.bmu.de/en/pressrelease/bundesumweltministerium-startet-dritten-ideenwettbewerb-der-europaeischen-klimaschutzinitiative/>

²⁷⁰⁷ Germany advocates greater sustainability in chemicals management at UN Environment Assembly, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 14 March 2019. Access Date: 4 June 2019. <https://www.bmu.de/en/pressrelease/deutschland-setzt-sich-auf-der-weltumweltkonferenz-fuer-mehr-nachhaltigkeit-in-der-chemie-ein/>

²⁷⁰⁸ Federal Environment Ministry launches call for project ideas for global climate action and biodiversity conservation, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 26 March 2019. Access Date: 4 June 2019. <https://www.bmu.de/en/pressrelease/federal-environment-ministry-launches-call-for-project-ideas-for-global-climate-action-and-biodivers-1/>

²⁷⁰⁹ Alpine region to be climate neutral by 2050, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 4 April 2019. Access Date: 4 June 2019. <https://www.bmu.de/en/pressrelease/alpine-region-to-be-climate-neutral-by-2050/>

²⁷¹⁰ Climate change: Responses to Merkel's vow to neutralise German's CO2 are ambivalent, Euronews (Berlin) 15 May 2019. Access Date: 7 June 2019. <https://www.euronews.com/2019/05/14/climate-change-merkel-vows-to-make-germany-co2-neutral-by-2050>

²⁷¹¹ Petersberg Climate Dialogue sends signal for joint progress on climate action, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 14 May 2019. Access Date: 20 June 2019. <https://www.bmu.de/en/pressrelease/petersberger-klimadialog-sendet-signal-fuer-gemeinsame-fortschritte-beim-klimaschutz/>

building and agriculture sectors. The group recognized that carbon pricing is essential, particularly for sectors not covered by the EU Emissions Trading System.²⁷¹²

On 4 June 2019, the Foreign Ministry hosted the Berlin Climate and Security Conference, which brought together political, scientific and business leaders from more than 25 nations. Foreign Minister Heiko Maas used the event to present a three-point “Berlin Call for Action,” which outlines goals for the UN to “be as proactive as possible” in addressing conflicts associated with climate change.²⁷¹³

Germany has taken ambitious climate action to implement the Paris Agreement, while also supporting adaptation activities through its contribution of funds to the GRiF and the Green Climate Fund.

Thus, Germany receives a score of +1.

Analysts: Aysha Mohammed and David Manocchio

Italy: +1

Italy has fully complied with its commitment to reaffirm its strong commitment to implement the Paris Agreement, through ambitious climate action; in particular through strengthening and financing resilience and reducing vulnerability.

On 26 June 2018, a Joint Committee consisting of the Ministry of the Environment and the Jordan Renewable Energy and Energy Efficiency Fund held their first meeting. The meeting approved documents dictating the terms of the bilateral cooperative agreement and an action plan. The action plan involves four aspects: the promotion and development of renewable energy and energy efficiencies in Jordan, technical support provided by Italy, raising awareness on the topic of energy efficiency and renewable energy in Jordan, and the promotion of green technologies to achieve Jordanian objectives.²⁷¹⁴

On 19-20 July 2018, the third Joint Committee meeting with delegates from the Ministry of Environment and State Secretariat for Sustainable Development of Morocco was held in Rome. The meeting consisted of the committee’s assessment of projects that are currently underway, and the approval of three project proposals regarding the implementation of Morocco’s Nationally Determined Contributions.²⁷¹⁵

²⁷¹² Franco-German Climate Working Group discusses pathways to climate neutrality, Federal Ministry for the Environment, Nature Conservation, and Nuclear Safety (Berlin) 29 May 2019. Access Date: 20 June 2019. <https://www.bmu.de/en/pressrelease/franco-german-climate-working-group-discusses-pathways-to-climate-neutrality-1/>

²⁷¹³ Germany pushes climate change as security risk, Deutsche Welle (Berlin) 4 June 2019. Access Date: 7 June 2019. <https://www.dw.com/en/germany-pushes-climate-change-as-security-risk/a-49056370>

²⁷¹⁴ Cooperation with Jordan at the start: First meeting of the Joint Committee, Italian Ministry of Environment and protection of the territory and the sea (Rome) 26 June 2018. Access Date: 4 November 2018. http://www.minambiente.it/sites/default/files/archivio/allegati/sviluppo_sostenibile/action_plan_giordania.pdf

²⁷¹⁵ Cooperazione con il Marocco: terzo Comitato Congiunto sull’accordo tecnico per la protezione ambientale e lo sviluppo sostenibile, Ministero dell’Ambiente e della Tutela del Territorio e del Mare (Rome) 20 July 2018. Access Date: 4 November 2018. <http://www.minambiente.it/notizie/cooperazione-con-il-marocco-terzo-comitato-congiunto-sullaccordo-tecnico-la-protezione>

On 4 September 2018, the government announced an additional fund of EUR20 million to address coastal erosion and flood mitigation risks in four regions of Italy.²⁷¹⁶

On 24 September 2018, the Ministry of Environment, Land and Sea, the National Institute for Environmental Protection and Research, the United Nations Environment Programme and Technical University of Denmark, and the United Nations Office for Project Services signed a co-financed contract as a part of the multilateral Initiative for Climate Action Transparency. The objective of the contract is to build capacity in recipient countries for the implementation and reporting of their national mitigation and adaptation commitments and financial resources used. Phase one includes six countries: Botswana, Ethiopia, Iran, Maldives, Tunisia, and the Bahamas.²⁷¹⁷

On 25 September 2018, at the 73rd session of the UN General Assembly, the Ministry for the Environment, Land and Sea and United Arab Emirates' Ministry of Climate Change and Environment signed a memorandum of understanding (MOU) to collaborate in the area of sustainable development. The two countries will “identify and leverage new opportunities and tools to achieve sustainability in urban planning and land development, construction, transport, renewable energy, energy efficiency, resource-efficiency, and clean production.”²⁷¹⁸

On 9 October 2018, Italy indicated its support for a new goal agreed to by the Council of European Environment Ministers regarding the reduction of automobile carbon dioxide emissions. This new goal strives to achieve a reduction in new vehicles' emissions by 35 percent by 2030.²⁷¹⁹

On 8 November 2018, Environment Minister Sergio Costa announced that EUR6.5 billion will be allocated to the Ministry of the Environment, Land, and Sea to address the impacts of hydrogeological instability such as landslides, coastal erosion and flooding in various regions.²⁷²⁰

On 15 November 2018, an agreement was signed between the Ministry of the Environment, Land and Sea and the Lazio region. The ministry provided EUR4 million in funding to finance actions that seek to improve air quality and mitigate atmospheric pollution in the region. The Lazio Region will use the funds to implement measures that limit the most polluting vehicles, build charging stations

²⁷¹⁶ Dissesto: Ministero Ambiente, arrivano fondi per 20 milioni di euro, finanziati progetti in 4 regioni, Ministero dell'Ambiente e della Tutela del Territorio e del Mare (Rome) 4 September 2018. Access Date: 4 November 2018. <http://www.minambiente.it/comunicati/dissesto-ministero-ambiente-arrivano-fondi-20-milioni-di-euro-finanziati-progetti-4>

²⁷¹⁷ Firmato contratto ICAT-ISPRA per attività di supporto in 12 Paesi beneficiari, Ministero dell'Ambiente e della Tutela del Territorio e del Mare (Rome) 24 September 2018. Access Date: 18 October 2018. <http://www.minambiente.it/notizie/firmato-contratto-icat-ispra-attivita-di-supporto-12-paesi-beneficiari>

²⁷¹⁸ UAE, Italy sign Sustainable Development Cooperation Agreement, Emirates 24/7 (Dubai) 25 September 2018. Access Date: 18 October 2018. <https://www.emirates247.com/news/emirates/uae-italy-sign-sustainable-development-cooperation-agreement-2018-09-25-1.673606>

²⁷¹⁹ Emissioni auto, ministro Costa: "Oggi dobbiamo mostrare senso di responsabilità per il Pianeta. Italia spinge per accordo ambizioso", Ministero dell'Ambiente e della Tutela del Territorio e del Mare (Rome) 9 October 2018. Access Date: 4 November 2018. <http://www.minambiente.it/comunicati/emissioni-auto-ministro-costa-oggi-dobbiamo-mostrare-senso-di-responsabilita-il-pianeta>

²⁷²⁰ Dissesto, Ministro Costa a conferenza regioni: "Oltre sei miliardi risorse disponibili, da lunedì tavolo con regioni per velocizzare", Ministero dell'Ambiente e della Tutela del Territorio e del Mare (Rome) 8 November 2018. Access Date: 5 December 2018. <http://www.minambiente.it/comunicati/dissesto-ministro-costa-conferenza-regioni-oltre-sei-miliardi-risorse-disponibili-da>

for electric vehicles, transition into using renewable sources of energy and execute awareness campaigns.²⁷²¹

On 30 November 2018, the Minister of the Environment, Land, and Sea signed an MOU with the Zambian Minister of National Development Planning. The document aims to reduce climate vulnerability through the implementation of several adaptation and mitigation measures. The MOU will also promote the protection of natural resources, and assist the transition to cleaner and more efficient energy sources and promote sustainable waste management.²⁷²²

On 5 December 2018, the Minister of the Environment, Land, and Sea and the Minister of Education signed an MOU whereby EUR1.3 million will be allocated to an awareness campaign for Italian youth on topics such as environmental sustainability and sustainable development. In addition, further funds will be provided to improve energy efficiency in school buildings and promote school-work experience in the green economy sector.²⁷²³

On 13 December 2018, at the 24th Conference to the Parties of the United Nations Framework Convention on Climate Change in Katowice, Poland, Environment Minister Sergio Costa announced an additional loan of EUR7 million to the Adaptation Fund. The Adaptation Fund provides funding for projects in developing countries that help vulnerable communities adapt and mitigate the negative externalities of climate change. The minister also reaffirmed Germany's goal to be entirely coal-free by 2025.²⁷²⁴

On 14 December 2018, an agreement was signed between the Ministry of the Environment, Land and Sea and the Umbria region. The purpose of the agreement is to improve air quality and mitigate atmospheric pollution. This follows the agreement signed between the Ministry and the Lazio Region in November. The agreement outlines circulation and movement bans on certain vehicles on certain days of the week in an effort to decrease the concentration of PM10.²⁷²⁵

On 8 January 2019, Italy sent its binding “Energy and Climate Plan” to Europe for approval. The plan includes goals such as a reduction in energy consumption by 43% by 2030.²⁷²⁶

²⁷²¹ Regione Lazio e Ministero Dell'ambiente firmano accordo per miglioramento qualità dell'aria a Roma, comuni limitrofi e Valle del Sacco, Ministero dell'Ambiente e della Tutela del Territorio e del Mare (Rome) 15 November 2018. Access Date: 2 December 2018. <http://www.minambiente.it/comunicati/regione-lazio-e-ministero-dellambiente-firmano-accordo-miglioramento-qualita-dellaria>

²⁷²² Zambia, Italy sign MoU on cooperation to combat Climate Change as Chiteme, Costa call for strong bilateral ties, Lusaka Times 2 December 2018. Access Date: 5 December 2018. <https://www.lusakatimes.com/2018/12/02/zambia-italy-sign-mou-on-cooperation-to-combat-climate-change-as-chiteme-costa-call-for-strong-bilateral-ties/>

²⁷²³ Scuola, Bussetti e Costa firmano Protocollo d'intesa: 1,3 mln per l'educazione Ambientale, Ministero dell'Ambiente e della Tutela del Territorio e del Mare (Rome) 5 December 2018. Access Date: 6 December 2018. <http://www.minambiente.it/comunicati/scuola-bussetti-e-costa-firmano-protocollo-dintesa-13-mln-leducazione-ambientale>

²⁷²⁴ Il Ministro Costa Annuncia Un Nuovo Finanziamento Di 7 Milioni Di Euro All'Adaptation Fund, Ministero dell'Ambiente e della Tutela del Territorio e del Mare (Rome) 13 December 2018. Access Date: 27 February 2019. <https://www.minambiente.it/comunicati/il-ministro-costa-annuncia-un-nuovo-finanziamento-di-7-milioni-di-euro-alladaptation-fund>

²⁷²⁵ Inquinamento Dell'aria Da PM10 Accordo Ministero Dell'ambiente – Regione Umbria, Ministero dell'Ambiente e della Tutela del Territorio e del Mare (Rome) 14 December 2018. Access Date: 27 February 2019. <https://www.minambiente.it/comunicati/inquinamento-dellaria-da-pm10-accordo-ministero-dellambiente-regione-umbria>

²⁷²⁶ Clima, Ministro Costa “Sul Clima E Sull'energia Si Volta Pagina Con Impegni Concreti, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 8 January 2019. Access Date: 27 February 2019. <https://www.minambiente.it/comunicati/clima-ministro-costa-sul-clima-e-sullenergia-si-volta-pagina-con-impegni-concreti>

On 9 January 2019, the Ministry of Industry announced that as a part of its plans to cut the country's carbon emissions, it will block the issuing of some 36 permits to explore oil and gas. According to a ministry statement, "upstream oil and gas activity in Italy was not of strategic importance for the country."²⁷²⁷

On 16 January 2019, the Ministry of the Environment, Land and Sea allocated EUR10 million to purchasing electric and hybrid vehicles and improving surveillance systems in protected areas and marine parks.²⁷²⁸

On 28 January 2019, the Centre for Climate and Sustainable Development of Africa was inaugurated. The purpose of the centre is to facilitate the exchange of information between G7 members and African countries. The center specifically focuses on protecting the Sahel belt from desertification and climate change.²⁷²⁹

On 29 January 2019, the Ministry of the Environment, Land and Sea promised EUR44 million for the mitigation of hydrogeological risks in the Sicily region and an additional EUR98 million to address hydrogeological risks in Sardinia. This funding will support a variety of projects, including the maintenance of breakwater barriers, seismic improvements, and other consolidation projects.²⁷³⁰

On 5 February 2019, the government presented its integrated national Energy and Climate Plan (PNIEC) to the EU Commission. The plan provides detailed policies, technological options and financing aimed at accelerating the reduction of greenhouse gas emissions, in line with the long-term goal of deep decarbonisation by 2050.²⁷³¹

On 11 February 2019, the Ministry of the Environment, Land and Sea awarded 45 environmental education projects with a total of EUR1 million in funding. This program was initiated to promote environmental education and communication initiatives operated by environmental associations, in collaboration with Italian schools.²⁷³²

²⁷²⁷ Italy to block oil and gas exploration permits, Reuters (Milan) 9 January 2019. Access Date: 15 March 2019.

<https://uk.reuters.com/article/us-italy-drilling/italy-to-block-oil-and-gas-exploration-permits-idUKKCN1P31RW>

²⁷²⁸ Sostenibilità: Dal Ministero Dell'Ambiente 10 Milioni Per L'acquisto Di Mezzi Elettrici O Ibridi Nei Parchi E Aree Marine Protette, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 16 January 2019. Access Date: 27 February 2019. <https://www.minambiente.it/comunicati/sostenibilita-dal-ministero-dellambiente-10-milioni-lacquisto-di-mezzi-elettrici-o>

²⁷²⁹ Clima, Costa: "Salvaguardia Del Pianeta Parte Dall'Africa, D'All'Italia Nessun Colonialismo Ambientale, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 28 January 2019. Access Date: 27 February 2019. <https://www.minambiente.it/comunicati/clima-costa-salvaguardia-del-pianeta-parte-dallafrica-dallitalia-nessun-colonialismo>

²⁷³⁰ Dissesto Idrogeologico: Oltre 44 Milioni Per 20 Interventi In Sicilia, 98 Milioni Per La Sardegna, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 29 January 2019. Access Date: 27 February 2019. <https://www.minambiente.it/comunicati/dissesto-idrogeologico-oltre-44-milioni-20-interventi-sicilia-98-milioni-la-sardegna>

²⁷³¹ Presentata in Commissione Ue Proposta Piano nazionale integrato energia e clima, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 5 February 2019. Access Date: 15 March 2019. <https://www.minambiente.it/comunicati/presentata-commissione-ue-proposta-piano-nazionale-integrato-energia-e-clima>

²⁷³² Educazione Ambientale, 45 I Progetti Vincitori Bando Ministero Dell'Ambiente, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 11 February 2019. Access Date: 27 February 2019. <https://www.minambiente.it/comunicati/educazione-ambientale-45-i-progetti-vincitori-bando-ministero-dellambiente-0>

On 28 February 2019, the Ministry of the Environment, Land and Sea allocated EUR500 million to the construction of bicycle lanes and a bike sharing program with the goal of encouraging zero-emission mobility across Italy.²⁷³³

On 20 March 2019, the government launched public consultations regarding its energy and climate plan. The plan aims to phase out coal by 2025, expand the share of renewable energy to 28% by 2030, and increase energy efficiency in the residential and transport sectors.²⁷³⁴

On 15 April 2019, Environment Minister Sergio Costa reiterated his support for EU regulations ensuring that from 2030 onwards, new cars will emit on average 37.5% less CO₂ and new vans will emit on average 31% less CO₂ compared to 2021 levels. Between 2025 and 2029, both cars and vans will be required to emit 15% less CO₂.²⁷³⁵

On 2 May 2019, Costa committed EUR180 million in funding to the regions of the Po River Basin to ensure compliance with EU air quality standards. This funding will be used to finance the construction of local public transport, in an effort to improve air quality as part of the Clean Air Dialogue.²⁷³⁶

On 5 May 2019, Environment Minister Sergio Costa reaffirmed Italy's commitment to phasing out coal power by 2025.²⁷³⁷

On 6 May 2019, Environment Minister Sergio Costa and his French counterpart De Rugy decided upon a joint initiative to make the Mediterranean an Emission Control Area. The implementation of this initiative is thought to reduce emissions of sulphur dioxide and nitrogen dioxide from international shipping by 80% and 20% respectively.²⁷³⁸

On 5 June 2019, Turin hosted the Clean Air Dialogue. The Clean Air Dialogue between Italy and the European Council promotes the goal of sharing effective measures to combat air pollution. Environment Minister Sergio Costa committed to an action plan that outlines concrete measures for

²⁷³³ Mobilità: Ministero Ambiente, 500 Milioni Per Piste Ciclabili, Bike Sharing E Ciclovie, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 28 February 2019. Access Date: 13 June 2019.

²⁷³⁴ Clima: Presentato il Piano nazionale integrato energia e clima al 2030, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 20 March 2019. Access Date: 20 June 2019.

²⁷³⁵ Clima, Costa: bene ok UE a taglio emissioni, da Italia contributo fondamentale, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 15 April 2019. Access Date: 20 June 2019.

²⁷³⁶ Inquinamento Atmosferico. Costa: Subito 180 Milioni Di Euro Alle Regioni Del Bacino Padano, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 2 May 2019. Access Date: 13 June 2019.

²⁷³⁷ G7 Ambiente, Ministro Costa "Chi Concepisce L'economia Secondo I Vecchi Paradigmi Appartiene All'archaeologia Politica", Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 5 May 2019. Access Date: 13 June 2019.

²⁷³⁸ G7, Da Italia E Francia Il Via A Un Percorso Verso Area Basse Emissioni Nel Mediterraneo, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 6 May 2019. Access Date: 13 June 2019.

²⁷³⁸ G7, Da Italia E Francia Il Via A Un Percorso Verso Area Basse Emissioni Nel Mediterraneo, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 6 May 2019. Access Date: 13 June 2019.

improving air quality. This action plan will be implemented with EUR400 million in funding each year.²⁷³⁹

Italy has reaffirmed its commitment to implementing the Paris Agreement through ambitious climate action, including actions to finance climate resilience through international agreements and multilateral initiatives.

Thus, Italy receives a score of +1.

Analyst: Madeleine Frederica Witt

Japan: +1

Japan has fully complied with its commitment to reaffirm its strong commitment to implement the Paris Agreement, through ambitious climate action; in particular through strengthening and financing resilience and reducing vulnerability.

On 25 June 2018, Japan International Cooperation Agency (JICA) signed a grant agreement with the government of the Philippines to provide JPY1.278 billion for the improvement of flood forecasting and warning systems for the Cagayan de Oro River Basin region. This project aims to contribute to regional sustainable development, mitigate flood damage and reduce vulnerability to the effects of climate change through early intervention.²⁷⁴⁰

On 27 June 2018, JICA signed a grant agreement with the government of Guyana in Georgetown to provide grant aid of up to JPY 1.848 billion to the Project for the Introduction of Renewable Energy and the Improvement of Power System. This project aims to mitigate climate change by implementing an efficient and sustainable power supply in Georgetown and its surrounding areas.²⁷⁴¹

On 28 June 2018, JICA signed a memorandum of cooperation with the C40 Cities Climate Leadership Group, a global network dedicated to facilitating dialogue across 96 cities in 50 countries in support of actions to reduce greenhouse gas emissions and minimize urban climate risk. In signing this memorandum, JICA committed to upholding and carrying out cooperative activities related to climate change in megacities in Southeast Asia.²⁷⁴²

On 28 June 2018, the Japan Bank for International Cooperation, wholly owned by the Japanese government, announced the launch of its new Global Facility to Promote Quality Infrastructure Investment for Environmental Preservation and Sustainable Growth, effective 1 July 2018. QI-ESG aims to mobilize USD50 billion over the next three years and commit to a wide range of financing

²⁷³⁹ Inquinamento: A Torino Il Premier Conte E Sei Ministri Firmano Il Piano Anti Smog Alla Presenza Del Commissario Europeo All'ambiente, Il Ministero Dell'ambiente E Della Tutela Del Territorio E Del Mare (Rome) 4 June 2019. Access Date: 13 June 2019. <https://www.minambiente.it/comunicati/inquinamento-torino-il-premier-conte-e-sei-ministri-firmano-il-piano-anti-smog-alla>

²⁷⁴⁰ Signing of Grant Agreement with Philippines: Support for the improvement of a flood forecasting and warning system, Japan International Cooperation Agency (Tokyo) 26 June 2018. Access Date: 4 October 2018. https://www.jica.go.jp/english/news/press/2018/180626_01.html

²⁷⁴¹ Signing of Grant Agreement with Guyana: Contributing to climate change mitigation through the achievement of an efficient, sustainable power supply, Japan International Cooperation Agency (Tokyo) 29 June 2018. Access Date: 4 October 2018. https://www.jica.go.jp/english/news/press/2018/180629_01.html

²⁷⁴² Signing of Memorandum of Cooperation with the C40 Cities Climate Leadership Group: Promoting climate change actions in megacities in Southeast Asia, Japan International Cooperation Agency (Tokyo) 2 July 2018. Access Date: 4 October 2018. https://www.jica.go.jp/english/news/press/2018/180702_02.html

support for infrastructure development, such as renewable energy systems and efficient “smart cities.”²⁷⁴³

On 3 July 2018, the Cabinet approved the Fifth Strategic Energy Plan, formulated by the government under the Basic Act on Energy Policy. This plan presents the direction of Japan’s energy policy towards 2030 and 2050, and seeks to achieve energy transitions and decarbonization “in the enforcement of the Paris Agreement.”²⁷⁴⁴

On 17 July 2018, Prime Minister Shinzo Abe signed the EU-Japan Economic Partnership Agreement with the President of the European Council Donald Tusk and President of the European Commission Jean-Claude Juncker in Tokyo.²⁷⁴⁵ Chapter 16 of the agreement addressed trade and sustainable development. Article 16.4(4) reaffirmed the parties’ commitment to upholding the Paris Agreement, and states that “the Parties shall cooperate to promote the positive contribution of trade to the transition to low greenhouse gas emissions and climate-resilient development.” Article 16.5 (c) expressed that the parties “shall strive to facilitate trade and investment in goods and services of particular relevance to climate change mitigation, such as those related to sustainable renewable energy and energy-efficient goods and services.”²⁷⁴⁶

On 3 August 2018, Prime Minister Shinzo Abe held the first meeting on a Long-Term Strategy under the Paris Agreement as Growth Strategy. Abe asked the panel for proposals regarding the establishment of long-term economic growth and strategies to achieve Japan’s goals for the Paris Agreement. Prime Minister Abe also emphasized how measures against global warming were a source of competitiveness for Japan.²⁷⁴⁷

On 31 August 2018, JICA signed a grant agreement with the government of Pakistan in Islamabad to provide grant aid of up to JPY2.042 billion for the Project for Installation of Weather Surveillance Radar in Multan City. The project will install a meteorological radar system to monitor weather occurrences that can trigger disasters, and improve the accuracy of warning capabilities for floods and other natural disasters in the region.²⁷⁴⁸

On 4 September 2018, along with Australia and the United States, Japan submitted a proposal for Article 9.7 of the Paris Agreement. Article 9.7 refers to guidelines for middle and high-income states with regards to reporting climate finance resources they provide to low-income states. The proposed changes include removing specific rules in Article 9.7 that account for these contributions, which can

²⁷⁴³ JBIC Launches Global Facility to Promote Quality Infrastructure Investment for Environmental Preservation and Sustainable Growth, Japan Bank for International Cooperation (Tokyo) 28 June 2018. Access Date: 11 December 2018. <https://www.jbic.go.jp/en/information/news/news-2018/0628-011154.html>

²⁷⁴⁴ Cabinet Decision on the New Strategic Energy Plan, Ministry of Economy, Trade, and Industry (Tokyo) 3 July 2018. Access Date: 6 December 2018. http://www.meti.go.jp/english/press/2018/0703_002.html

²⁷⁴⁵ The Signing of the Agreement between the European Union and Japan for an Economic Partnership, Ministry of Foreign Affairs of Japan (Tokyo) 17 July 2018. Access Date: 18 October 2018. https://www.mofa.go.jp/press/release/press4e_002107.html

²⁷⁴⁶ Agreement between the European Union and Japan for an Economic Partnership, Ministry of Foreign Affairs of Japan (Tokyo) 19 July 2018. Access Date: 18 October 2018. <https://www.mofa.go.jp/files/000382106.pdf>

²⁷⁴⁷ Meeting on a Long-Term Strategy under the Paris Agreement as Growth Strategy, The Prime Minister in Action (Tokyo) 3 August 2018. Access Date: 19 October 2018. https://japan.kantei.go.jp/98_abe/actions/201808/_00011.html

²⁷⁴⁸ Signing of Grant Agreement with Pakistan: Supporting stronger weather forecasting and warning capabilities for natural disasters with the installation of a meteorological radar system, Japan International Cooperation Agency (Tokyo) 3 September 2018. Access Date: 10 October 2018. https://www.jica.go.jp/english/news/press/2018/180903_01.html

mean that commercial loans can count towards a middle or high-income state's climate finance obligation to low-income states.²⁷⁴⁹

On 5 September 2018, Parliamentary Vice-Minister for Foreign Affairs of Japan Iwao Horii and the Minister of Foreign Affairs of New Zealand Winston Peters announced Japan and New Zealand's cooperation in support of the operations and logistics of the Pacific Climate Change Centre in Apia, Samoa.²⁷⁵⁰

On 12 September 2018, the government of Japan endorsed the goals of the "Under2Coalition," a global community of sub-national governments committed to addressing climate change and achieving the 2°C target of the Paris Agreement. The government of Japan stated that it will further develop cooperation with non-state actors in implementing the Paris Agreement.²⁷⁵¹

On 26 September 2018, the Ministry of the Environment and the Ministry of National Development Planning of Indonesia signed the first bilateral Letter of Intent regarding cooperation for the Partnership to Strengthen Transparency for Co-Innovation. The letter agreed to improve transparency in implementing the Paris Agreement to enhance climate mitigation.²⁷⁵²

On 2 October 2018, Minister of Foreign Affairs Taro Kono held a press conference to reaffirm Japan's efforts in resolving global [climate] issues and "taking the initiative to further climate change diplomacy." Kono also confirmed that the Ministry of Foreign Affairs will support non-state diplomatic actors' activities, citing the example of the Japan Climate Initiative's contribution to advancing climate change diplomacy at international conferences.²⁷⁵³

On 9 October 2018, the Government Pension Investment Fund (GPIF), the world's largest single pension fund with over USD1.5 trillion in assets, announced that it had joined the Climate Action 100+ initiative as a supporter. An investor representative of the initiative commented that "GPIF is a global leader whose support will bring influence and insight to the ambition of Climate Action 100+ to ensure the goals of the Paris Agreement are met, to the benefit of companies and their long-term investors."²⁷⁵⁴

On 11-12 October 2018, the government hosted the fifth annual Innovation for Cool Earth Forum in Tokyo.²⁷⁵⁵ The conference addressed climate change through innovation under the theme "Driving Green Innovation," and it invited participants from the private sector, academia and policy

²⁷⁴⁹ Submission by Australia, Japan, and the United States: SBTSTA (13) Modalities for the accounting of financial resources provided and mobilized through public interventions in accordance with Article 9, paragraph 7, of the Paris Agreement, United Nations, United Nations Framework Convention on Climate Change (New York City) 4 September 2018. Access Date: 11 October 2018. https://unfccc.int/sites/default/files/resource/SBSTA48.2.CRP_.i13.pdf

²⁷⁵⁰ New Zealand-Japan Joint Press Release: Cooperation on the Pacific Climate Change Centre, Ministry of Foreign Affairs of Japan (Tokyo) 5 September 2018. Access Date: 18 October 2018. <https://www.mofa.go.jp/mofaj/files/000396530.pdf>

²⁷⁵¹ Climate Diplomacy (Endorsement of Under2 Coalition) (Statement by Foreign Minister Taro Kono), Ministry of Foreign Affairs of Japan (Tokyo) 12 September 2018. Access Date: 11 October 2018. https://www.mofa.go.jp/press/release/press4e_002155.html

²⁷⁵² Partnership to Strengthen Transparency for Co-Innovation, Overseas Environmental Cooperation Center (Tokyo) 1 October 2018. Access Date: 9 December 2018. https://www.oecc.or.jp/pasti/pdf/181030_Report_SigningCeremony.pdf

²⁷⁵³ Press Conference by Foreign Minister Taro Kono (Tuesday, October 2, 2018, 8:01 a.m), Ministry of Foreign Affairs of Japan (Tokyo) 2 October 2018. Access Date: 15 October 2018. https://www.mofa.go.jp/press/kaiken/kaiken4e_000548.html#topic5

²⁷⁵⁴ GPIF joins Climate Action 100, Government Pension Investment Fund (Tokyo) 9 October 2018. Access Date: 10 December 2018. https://www.gpif.go.jp/en/Climate_Action_100%2B.pdf

²⁷⁵⁵ Innovation for Cool Earth Forum (Tokyo) Access Date: 19 October 2018. <https://www.icef-forum.org/>

realms. Parliamentary Secretary for Foreign Affairs Kenwa Suzuki attended the forum and gave a closing speech. He emphasized that “the importance of technological innovation in the field of climate change is clearly stated in the Paris Agreement.”²⁷⁵⁶

On 18 October 2018, the Ministry of Economy, Trade, and Industry (METI) announced that it will convene a Study Group on Encouraging Japanese Companies to Address International Initiatives on Climate Change. METI launched the initiative to encourage companies to monitor and reduce their greenhouse gas emissions in accordance with “international initiatives on climate change and also to acquire and claim the value of renewable energy electricity, i.e., renewable energy value.”²⁷⁵⁷

On 19 October 2018, Foreign Minister Taro Kono expressed Japan’s commitment to the development of an “Ideal Arctic” at the Arctic Circle Assembly in Iceland. An “Ideal Arctic” takes into account the impacts of climate change in the region using scientific data and aims to promote sustainable economic activities in the Arctic.²⁷⁵⁸

On 19 October 2018, the Ministry of the Environment launched a public-private partnership entitled the “Plastics Smart” campaign, a multi-stakeholder initiative that promotes initiatives to address and reduce marine plastic waste and conserve marine environments.²⁷⁵⁹

On 22 October 2018, Prime Minister Abe and Minister of the Environment Yoshiaki Harada gave opening speeches at the Second World Circular Economy Forum (WCEF). In a video message, Prime Minister Abe expressed his wish that Japan will share its experiences of natural resource conservation and take the lead on developing circular economies in the international community. Minister Harada reaffirmed the importance of the Paris Agreement and indicated Japan’s intentions to move towards a circular economy and combat climate change.²⁷⁶⁰

On 22 October 2018, Minister of the Environment Yoshiaki Harada and Finland’s Minister of the Environment Kimmo Tiilikainen signed a Memorandum of Environmental Cooperation at the Second WCEF. The parties outlined ten areas in which to strengthen and develop intensive environmental cooperation.²⁷⁶¹

On 22 October 2018, Minister of the Environment Yoshiaki Harada announced that the MoeJ decided to participate in the Platform for Accelerating Circular Economy. Minister Harada stated that Japan would contribute to the platform by providing information on actions, experiences, and technologies of Japan’s public and private entities registered under its “Plastic Smart” Campaign.²⁷⁶²

²⁷⁵⁶ Norikazu Suzuki Attended the 5th Innovation for Cool Earth Forum (ICEF), Parliamentary Secretary of State for Foreign Affairs, Ministry of Foreign Affairs for Japan (Tokyo) 15 October 2018. Access Date: 19 October 2018. https://www.mofa.go.jp/mofaj/ic/ch/page22_003067.html

²⁷⁵⁷ METI to Launch Study Group on Encouraging Japanese Companies to Address International Initiatives on Climate Change, Ministry of Economy, Trade, and Industry (Tokyo) 18 October 2018. Access Date: 1 December 2018. http://www.meti.go.jp/english/press/2018/1018_006.html

²⁷⁵⁸ Speech by H. E. Mr. Taro Kono, Minister for Foreign Affairs of Japan at the Arctic Circle 2018 Opening Session 19 October 2018, Reykjavik, Iceland, Ministry of Foreign Affairs of Japan (Tokyo) 19 October 2018. Access Date: 19 October 2018. <https://www.mofa.go.jp/mofaj/files/000410409.pdf>

²⁷⁵⁹ About Launching “Plastic.Smart” campaign, Ministry of the Environment (Tokyo) 19 October 2018. Access Date: 22 November 2018. <https://www.env.go.jp/press/106073.html>

²⁷⁶⁰ On the results of the World Circular Economic Forum (WCEF) 2018, Ministry of the Environment (Tokyo) 25 October 2018. Access Date: 2 December 2018. <http://www.env.go.jp/press/106091.html>

²⁷⁶¹ Memorandum of cooperation in the field of environmental cooperation between the Ministry of the Environment of Japan and the Ministry of the Environment of the Republic of Finland (English), Ministry of the Environment (Tokyo) 22 October 2018. Access Date: 2 December 2018. <https://www.env.go.jp/press/files/jp/110155.pdf>

²⁷⁶² Participation in circulation economic acceleration platform (PACE) Letter (English), Ministry of the Environment (Tokyo) 22 October 2018. Access Date: 2 December 2018. <http://www.env.go.jp/press/files/jp/110157.pdf>

On 22-23 October 2018, Ministry of the Environment and the Finnish Innovation Fund Sitra jointly hosted the WCEF in Yokohama, Kanagawa, Japan. Circular economies support Article 9 in the Paris Agreement: “adapting to climate change by building the resilience of socioeconomic and ecological systems, including through sustainable management of natural resources.” The forum promoted circular visions towards 2050, climate and marine plastic waste solutions in circular economies, and international cooperation on sustainable development.²⁷⁶³

On 26 October 2018, the Ministry of the Environment and India’s Ministry of Environment, Forestry and Climate Change signed a Memorandum of Cooperation. The memorandum outlined various fields and forms of cooperation and reaffirmed the importance of collaborative actions in successfully implementing “multilateral environmental agreements including the Paris Agreement”²⁷⁶⁴.

On 29 October 2018, the Aerospace Exploration Agency launched the second Greenhouse Gases Observing Satellite (GOSAT-2) from the Tanegashima Space Center. This is the world’s first satellite to monitor greenhouse gases emissions of every country, reflecting Japan’s aim to enhance transparency in its implementation of the Paris Agreement. Countries can access and use this data to reduce their emissions.²⁷⁶⁵

On 30 October 2018, Minister of Economy, Trade and Industry Hiroshige Seko and the Federal Minister for Economic Affairs and Energy of Germany Peter Altmaier signed the Japan-Germany Joint Declaration of Intent on Economic Policy and Cooperation. The declaration stated that “[b]oth countries face the challenge of transformation towards low greenhouse-gas emission energy systems in line with the goals of the Paris Agreement,” and reaffirmed energy policy cooperation to promote energy efficiency through the integration of sustainable and renewable energy technologies.^{2766,2767}

On 2 November 2018, JICA signed a Japanese loan agreement with the government of India in Delhi for the Project for the Construction of the Turga Pumped Storage (I) power plant in the West Bengal State. The project will promote renewable energy with variable-speed pumped storage power generation systems developed in Japan.²⁷⁶⁸

On 6 November 2018, the Cabinet approved the Bill for the Act of Promoting Utilization of Sea Areas in Development of Power Generation Facilities Using Maritime Renewable Energy Resources. This act promotes the utilization of renewable maritime energy to develop power generation facilities.

²⁷⁶³ On the results of the World Circular Economic Forum (WCEF) 2018, Ministry of the Environment (Tokyo) 25 October 2018. Access Date: 2 December 2018. <http://www.env.go.jp/press/106091.html>

²⁷⁶⁴ Signature of cooperation memorandum of understanding in the field of environmental cooperation between Ministry of the Environment of Japan and India Ministry of Environment, Forestry and Climate Change, Ministry of the Environment (Tokyo) 29 October 2018. Access Date: 3 December 2018. <http://www.env.go.jp/press/106105.html>

²⁷⁶⁵ Contributions to the Paris Agreement from Outer Space, The Government of Japan (Tokyo) 29 October 2018. Access Date: 28 November 2018. https://www.japan.go.jp/tomodachi/2018/Autumn2018/contributions_to_the_paris_agreement.html

²⁷⁶⁶ Minister Seko Signs Japan-Germany Joint Declaration of Intent on Economic Policy and Cooperation, Ministry of Economy, Trade, and Industry (Tokyo) 30 October 2018. Access Date: 11 December 2018. http://www.meti.go.jp/english/press/2018/1030_006.html

²⁷⁶⁷ Joint Declaration of Intent of the Ministry of Economy, Trade and Industry of Japan, the Ministry of Internal Affairs and Communications of Japan and the Federal Ministry for Economic Affairs and Energy of the Federal Republic of Germany, on economic policy and economic cooperation, Ministry of Economy, Trade, and Industry (Tokyo) 30 October 2018. Access Date: 11 December 2018. <http://www.meti.go.jp/press/2018/10/20181030012/20181030012-1.pdf>

²⁷⁶⁸ Signing of Japanese ODA Loan Agreement with India: Promoting Renewable Energy with Variable-Speed Pumped Storage Power Generation Developed in Japan, Japan International Cooperation Agency (Tokyo) 3 November 2018. Access Date: 10 December 2018. https://www.jica.go.jp/english/news/press/2018/181102_01.html

Measures prescribed by this act are to be completed in harmonization with other policies relating to maritime resources.²⁷⁶⁹

On 20 November 2018, METI announced a new initiative entitled the “Clean Ocean Material Alliance (tentative title),” which aims to reduce marine debris by promoting sustainable plastic products, alternatives to plastic, and innovation through public-private partnerships. On the same day, as the department leading the initiative, the Japan Environmental Management Association for Industry started a call for companies to participate in the alliance.²⁷⁷⁰

On 22 November 2018, the Ministry of the Environment announced that it will establish a climate adaption center at the National Institute for Environmental Studies on 1 December 2018, in line with the Climate Change Adaptation Law coming into effect on the same day. The centre will support the activities of local governments in climate change adaption and conduct national research on this topic.²⁷⁷¹

On 27 November 2018, Prime Minister Shinzo Abe and the Cabinet approved a Climate Change Adaption Plan based on the Climate Change Adaption Law passed in June of this year. This plan offers direction and measures for the mitigation and adaptation of climate change in seven areas.^{2772,2773}

On 7 December 2018, the Ministry of the Environment announced the launch of the “Japan’s Climate Change Action Initiative 2018” document. This document supports the implementation guidelines of the Paris Agreement adopted at 24th Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change and encourages international cooperation on measures to combat climate change. The document summarized Japan’s present and future efforts domestically and in low-income countries to implement the Paris Agreement through mitigation, adaption, and improvement in transparency.^{2774,2775}

On 2-15 December 2018, at COP24 in Katowice, Poland, Japan hosted the Japan Pavilion to showcase innovations in and scale-up of clean technologies and measures to promote green economic growth.²⁷⁷⁶

²⁷⁶⁹ Cabinet Decision on the Bill for the Act of Promoting Utilization of Sea Areas in Development of Power Generation Facilities Using Maritime Renewable Energy Resources, Ministry of Economy, Trade, and Industry (Tokyo) 6 November 2018. Access Date: 6 December 2018. http://www.meti.go.jp/english/press/2018/1106_002.html

²⁷⁷⁰ Clean Ocean Material Alliance to be Established, Ministry of Economy, Trade, and Industry (Tokyo) 20 November 2018. Access Date: 6 December 2018. http://www.meti.go.jp/english/press/2018/1120_005.html

²⁷⁷¹ Establishment of climate change adaptation center of National Institute for Environmental Studies, Ministry of the Environment (Tokyo) 22 November 2018. Access Date: 5 December 2018. <http://www.env.go.jp/press/106194.html>

²⁷⁷² Cabinet endorses climate change adaptation plan, NHK World (Tokyo) 27 November 2018. Access Date: 5 December 2018. https://www3.nhk.or.jp/nhkworld/en/news/20181127_33/

²⁷⁷³ On the results of the Cabinet decision on climate change adaptation plan and public opinion recruitment (public comment), Ministry of the Environment (Tokyo) 27 November 2018. Access Date: 9 December 2018. <http://www.env.go.jp/press/106190.html>

²⁷⁷⁴ On the announcement of “Japan’s Climate Change Action Initiative 2018”, Ministry of the Environment (Tokyo) 7 December 2018. Access Date: 9 December 2018. <https://www.env.go.jp/press/106213.html>

²⁷⁷⁵ Japan’s Assistance Initiatives to Address Climate Change 2018. Ministry of the Environment (Tokyo) 7 December 2018. Access Date: 11 December 2018. <https://www.env.go.jp/press/106168/%E6%97%A5%E6%9C%AC%E3%81%AE%E6%B0%97%E5%80%99%E5%A4%89%E5%8B%95%E5%AF%BE%E7%AD%96%E6%94%AF%E6%8F%B4%E3%82%A4%E3%83%8B%E3%82%B7%E3%82%A2%E3%83%86%E3%82%A3%E3%83%962018%28%E8%8B%B1%E8%AA%9E%29.pdf>

²⁷⁷⁶ COP24 Japan Pavilion “Lead the World Forward,” Ministry of the Environment (Tokyo) 2 December 2018. Access Date: 22 December 2018. <http://copjapan.env.go.jp/cop/cop24/en>

On 20 December 2018, JICA signed a Record of Discussions with the government of the Independent State of Samoa for the Project for Capacity Building on Climate Resilience in the Pacific, a technical cooperation project to build climate resilience in the Pacific region by scaling up the training functions of the Pacific Climate Change Center. It will provide regional training in climate change adaptation, mitigation, and access to climate finance.²⁷⁷⁷

On 25 December 2018, METI declared its support for the Task Force on Climate Related Financial Disclosure (TCFD) and released TCFD guidance. This aims to provide information on approaches to information disclosure in accordance with TCFD recommendations. METI also strives to provide case studies as references and give industry-based strategies that companies should use to showcase their efforts.²⁷⁷⁸

On 23 January 2019, during a speech at the World Economic Forum in Davos, Prime Minister Abe called for “disruptive innovation” and more resource mobilization for climate change innovation. He went on to highlight Japan’s commitment to reducing the production cost of hydrogen by at least 90% by 2050, making hydrogen cheaper than natural gas and thus realizing a hydrogen-based society.²⁷⁷⁹

On 1 February 2019, the EU-Japan Trade Agreement came into force. The agreement set ambitious standards with regards to sustainable development, and includes for the first time a specific commitment to the Paris Agreement. The trade agreement strengthens the EU and Japan’s commitments to sustainable development and climate change.²⁷⁸⁰

On 14 February 2019, METI launched the “Subcommittee on Electricity Resilience toward Decarbonized Society” under the Electricity and Gas Industry Committee of the Advisory Committee for Natural Resources and Energy. In order to achieve a decarbonized society, this subcommittee will study ways to enhance the resilience of electricity infrastructure and establish sustainable and steady electricity supply systems that incorporate low-carbon technologies.²⁷⁸¹

On 27 February 2019, Japan hosted the Japan-Vietnam Government Private Workshop on Clean Energy Technology. The workshop aimed to share the knowledge and experiences that Japan has in the field of clean energy, specifically for Vietnam’s reference in relation to policy formulation. This is an opportunity to deepen engagement between the two countries and support Vietnam’s transition to clean energy sources.²⁷⁸²

On 12 March 2019, to achieve the goals set forth in the Basic Hydrogen Strategy and the Fifth Strategic Energy Plan and realize a hydrogen-based society, the Council for a Strategy for Hydrogen and Fuel Cells renewed the existing Strategic Roadmap for Hydrogen and Fuel Cells. The renewed roadmap defines new targets on the specification of basic technologies and the breakdown of costs,

²⁷⁷⁷ Signing of Record of Discussions on Technical Cooperation Project with Samoa: Support for strengthening climate resilience in the Pacific region, Ministry for Economy, Trade and Industry (Tokyo) 20 December 2018. Access Date: 16 March 2019. https://www.jica.go.jp/english/news/press/2018/181220_01.html

²⁷⁷⁸ METI Formulates TCFD Guidance and Declares its Support for TCFD, Ministry for Economy, Trade and Industry (Tokyo) 25 December 2018. Access Date: 16 March 2019. https://www.meti.go.jp/english/press/2018/1225_006.html

²⁷⁷⁹ ‘Defeatism about Japan is now defeated’: Read Abe’s Davos speech in full, World Economic Forum (Davos) 23 January 2019. Access Date: 16 March 2019. <https://www.weforum.org/agenda/2019/01/abe-speech-transcript/>

²⁷⁸⁰ EU-Japan trade agreement enters into force, EU Press Release (Brussels) 31 January 2019. Access Date: 16 March 2019. http://europa.eu/rapid/press-release_IP-19-785_en.htm

²⁷⁸¹ METI to Launch Subcommittee on Electricity Resilience towards a Decarbonized Society, Ministry for Economy, Trade and Industry (Tokyo) 14 February 2019. Access Date: 16 March 2019. https://www.meti.go.jp/english/press/2019/0214_002.html

²⁷⁸² Japan-Vietnam government -Private Workshop on Clean Energy Technology to be Held, Ministry of Economy, Trade and Industry (Tokyo) 15 February 2019. Access Date: 16 March 2019. https://www.meti.go.jp/english/press/2019/0215_002.html

outlines necessary measures for achieving these goals, and declares that Japan will convene a working group consisting of experts to review the status of implementation in each area stipulated by the roadmap.²⁷⁸³

On 26 March 2019, JICA signed a grant agreement with the government of the Republic of Cuba to provide grant aid of up to JPY2.392 billion for the Project for the Improvement of Power Supply in the Isle of Youth. Under this project, equipment for electrical system stabilization will be introduced on the Isle of Youth to promote the use of renewable energy in Cuba.²⁷⁸⁴

On 27 March 2019, JICA signed a limited partnership agreement to provide funding for the MGM Sustainable Energy Fund L.P. II (MSEF II), a fund for a variety of energy efficiency and renewable energy projects in developing regions of Latin America and the Caribbean. MSEF II is a follow-up to the MSEF I fund in which JICA invested in November 2014. The fund will assist economic growth in the developing regions of Latin America and the Caribbean while addressing issues related to climate change, including the reduction of greenhouse gases.²⁷⁸⁵

On 8 April 2019, in collaboration with car manufacturers, energy companies, companies, municipalities and other entities, METI is proactively engaging in efforts to utilize electrical vehicles. METI will launch a new body called the “Council for Promoting Society Utilizing of Electrified Vehicles” to advance the dissemination of electrical vehicles. Through this effort, METI aims to scale-up use of electric vehicles in Japan.²⁷⁸⁶

On 3 June 2019, JICA signed a Record of Discussions with the government of Solomon Islands in Honiara for the Project for Formulating Renewable Energy Road Map, a technical partnership for development planning. The project aims to formulate a roadmap and enable the high penetration of renewable energy generation in Honiara, the capital city of Solomon, by 2030.²⁷⁸⁷

On 7 June 2019, the Cabinet approved the FY 2018 Annual Report on Energy, which includes Global warming countermeasures and energy policy recommendations based on the Paris Agreement.²⁷⁸⁸

Japan has taken ambitious climate action to implement the Paris Agreement, while also supporting adaptation activities by disbursing grants through its development agency JICA and contributions of funds to the Joint Pacific Initiative for Biodiversity, Climate Change, and Resilience.

Thus, Japan receives a score of +1.

Analysts: Amal Ismail-Ladak and Laila Kanji

²⁷⁸³ Formulation of a New Strategic Roadmap for Hydrogen and Fuel Cells, Ministry of Economy, Trade and Industry (Tokyo) 12 March 2019. Access Date: 4 June 2019. https://www.meti.go.jp/english/press/2019/0312_002.html

²⁷⁸⁴ Signing of Grant Agreement with Cuba: Contributing to the promotion of renewable energy through power supply stabilization, JICA (Tokyo) 26 March 2019. Access Date: 4 June 2019. https://www.jica.go.jp/english/news/press/2018/190327_01.html

²⁷⁸⁵ Investment in Energy Efficiency and Renewable Energy Project Funds For Latin America and the Caribbean : Contribution of Japanese low-carbon technology to addressing climate change, JICA (Tokyo) 27 March 2019. Access Date: 4 June 2019. https://www.jica.go.jp/english/news/press/2018/20190327_10_en.html

²⁷⁸⁶ Council for Promoting Society Utilizing of Electrified Vehicles to be launched, Ministry of Economy, Trade and Industry (Tokyo) 8 April 2019. Access Date: 4 June 2019. https://www.meti.go.jp/english/press/2019/0408_006.html

²⁷⁸⁷ Signing of Record of Discussions on Technical Cooperation for Development Planning with Solomon: Promoting Power Generation from Renewable Energy, JICA (Tokyo) 3 June 2019. Access Date: 16 June 2019. https://www.jica.go.jp/english/news/press/2019/copy_of_20190603_21.html

²⁷⁸⁸ The Cabinet Approves the FY 2018 Annual Report on Energy (Japan’s Energy White Paper 2019), Ministry of Economy, Trade and Industry (Tokyo) 7 June 2019. Access Date: 16 June 2019. https://www.meti.go.jp/english/press/2019/0607_001.html

United Kingdom: +1

The United Kingdom has fully complied with its commitment to reaffirm its strong commitment to implement the Paris Agreement, through ambitious climate action; in particular through strengthening and financing resilience and reducing vulnerability.

On 19 July 2018, the government published an updated National Adaptation Programme that sets out an ambitious strategy for dealing with the effects of a changing climate between 2018 and 2023. The agenda addresses risks affecting communities across England, and sets out the government's ongoing investments and work towards tackling these risks.²⁷⁸⁹

On 20 July 2018, Environment Minister Thérèse Coffey announced that GBP 40 million will be provided to unlock flood defence schemes and support economic growth and regeneration in areas that have suffered from flooding in recent years. This funding will finance 13 flood schemes across Britain, according to Thérèse Coffey, and “boost our resilience as a nation and help our communities to grow and prosper.”²⁷⁹⁰

On 11 September 2018, Prime Minister Theresa May hosted a roundtable with supply chain companies at the UK's first Zero Emissions Vehicle Summit, where she presented the government's plan for all new cars and vans to be zero-emission vehicles by 2040.²⁷⁹¹

On 27 September 2018, Prime Minister May outlined over GBP160 million in funding to help countries transition to cleaner, greener energy systems, and support communities affected by climate change. The funding will promote energy market reform, green finance, climate legislation, and resilience-building against rising food demand and climate shocks.²⁷⁹²

On 5 October 2018, Environment Minister Coffey announced a GBP 3.5 billion national air quality plan to support local authorities across the UK in their delivery of projects that would reduce emissions and improve air quality.²⁷⁹³

On 15 October 2018, Energy and Clean Growth Minister Claire Perry wrote to the Committee on Climate Change seeking advice on current climate change policies and any further actions needed to meet the goals of the Paris Agreement.²⁷⁹⁴

On 15 October 2018, the government marked the start of the first Green Great Britain week by announcing a package of measures to increase clean and green energy infrastructure. The package

²⁷⁸⁹ Government publishes updated plan to tackle climate change, UK Government (London) 19 July 2018. Access Date: 30 October 2018. <https://www.gov.uk/government/news/government-publishes-updated-plan-to-tackle-climate-change>

²⁷⁹⁰ £40m extra funding to boost regeneration and better protect thousands of homes against flooding, UK Government (London) 20 July 2018. Access Date: 29 October 2018. <https://www.gov.uk/government/news/40m-extra-funding-to-better-protect-thousands-of-homes-against-flooding>

²⁷⁹¹ PM's Zero Emissions Vehicle Summit roundtable: 11 September 2018, UK Government (London) 11 September 2018. Access Date: 4 November 2018. <https://www.gov.uk/government/news/pms-zero-emissions-vehicle-summit-roundtable-11-september-2018>

²⁷⁹² UK expertise to help developing countries tackle climate change and move to cleaner energy, UK Government (London) 27 September 2018. Access Date: 30 October 2018. <https://www.gov.uk/government/news/uk-expertise-to-help-developing-countries-tackle-climate-change-and-move-to-cleaner-energy>

²⁷⁹³ Government to fund local authority plans to tackle air pollution, United Kingdom Government (London) 5 October 2018. Access Date: 13 December 2018. <https://www.gov.uk/government/news/government-to-fund-local-authority-plans-to-tackle-air-pollution>

²⁷⁹⁴ UK climate targets: request for advice from the Committee on Climate Change, United Kingdom Government (London) 15 October 2018. Access Date: 13 December 2018. <https://www.gov.uk/government/publications/uk-climate-targets-request-for-advice-from-the-committee-on-climate-change>

included the launch of a GBP320 million government fund for low-carbon heating in cities, the initiation of the GBP18 million Heat Recovery Support Programme to help businesses become more energy-efficient, and a pledge of GBP106 million to encourage greener construction practices in developing countries.²⁷⁹⁵

On 17 October 2018, the government announced that it will invest up to GBP20 million alongside at least GBP20 million from private investors in a new venture capital fund entitled the Clean Growth Fund. The fund aims to accelerate the deployment of innovative clean technologies that reduce greenhouse gas emissions by making direct investments in companies seeking to commercialise promising technologies.²⁷⁹⁶

On 19 October 2018, the government announced funding of GBP60 million in support of four new research programmes under its Strategic Priorities Fund. Managed by UK Research and Innovation, the objectives of these programmes are to boost the UK's resilience to climate change, develop digital environments, promote clean air and investigate how to utilize land for the improvement of health outcomes.²⁷⁹⁷

On 5 November 2018, UK Research and Innovation announced funding of GBP5 million for a competition to support cleaner air initiatives as a part of the Strategic Priorities Fund.²⁷⁹⁸

On 20 November 2018, Minister for Business and Industry Richard Harrington and the Secretary of State of the Polish Ministry of Environment Michal Kurtyka launched a new electromobility initiative entitled "Driving Change Together." The initiative is a dedicated partnership for fostering technological and organisational changes to develop zero-emission transportation.²⁷⁹⁹

On 21 November 2018, the Special Representative for Climate Change Nick Bridge announced with Colombia's Minister of Environment and Sustainable Development Ricardo Lozano that Colombia and the UK intend to form a new Partnership for Sustainable Growth. Bridge noted that both nations "recognise the urgency of action and that we can achieve more when we work together ... in the global fight against climate change."²⁸⁰⁰

On 26 November 2018, Environment Secretary Michael Gove launched the "UK Climate Projections 2018" project to guide decision-making and boost climate resilience in the UK. The project draws from data and projections provided by leading UK and international scientists, and it is supported by various government departments and the Met Office. The project aims to inform long-term climate adaptation planning based on a wide range of possible climate scenarios.²⁸⁰¹

²⁷⁹⁵ Climate experts asked for advice on net zero target, United Kingdom Government (London) 15 October 2018. Access Date: 13 December 2018. <https://www.gov.uk/government/news/climate-experts-asked-for-advice-on-net-zero-target>

²⁷⁹⁶ Clean Growth Fund, United Kingdom Government (London) 17 October 2018. Access Date: 31 October 2018. <https://www.gov.uk/government/publications/clean-growth-equity-fund>

²⁷⁹⁷ Call for new green innovations to tackle climate change, UK Government (London) 19 October 2018. Access Date: 3 November 2018. <https://www.gov.uk/government/news/call-for-new-green-innovations-to-tackle-climate-change>

²⁷⁹⁸ Breathe easy with cleaner air: new funding to fight pollution, UK Government (London) 5 November 2018. Access Date: 3 December 2018. <https://www.gov.uk/government/news/breathe-easy-with-cleaner-air-new-funding-to-fight-pollution>

²⁷⁹⁹ UK and Poland launch new electromobility initiative, UK Government (London) 21 November 2018. Access Date: 9 December 2018. <https://www.gov.uk/government/news/uk-and-poland-launch-new-electromobility-initiative>

²⁸⁰⁰ Colombia and the UK announce partnership for sustainable growth, UK Government (London) 21 November 2018. Access Date: 19 November 2018. <https://www.gov.uk/government/news/colombia-and-the-uk-announce-partnership-for-sustainable-growth>

²⁸⁰¹ Most detailed picture yet of changing climate launched, UK Government (London) 26 November 2018. Access Date: 22 December 2018. <https://www.gov.uk/government/news/most-detailed-picture-yet-of-changing-climate-launched>

On 28 November 2018, the government unveiled its first carbon capture usage and storage project. The aim of this project is to capture carbon before it enters the air, in order to use it for “industrial purposes like manufacturing concrete or stores it safely underground, reducing pollution and helping to tackle climate change.”²⁸⁰²

On 5 December 2018, the Department for Business, Energy and Industry announced new government funding of up to GBP 60 million made available through the Industrial Strategy Challenge fund for the Smart Sustainable Plastic Packaging challenge. Through the challenge, the UK is encouraging innovators to develop sustainable packaging and reduce the impact of harmful plastics on the environment, in order to support the shift towards a greener, cleaner economy as a part of the new Industrial Strategy.²⁸⁰³

On 6 December 2018, alongside the Leeds City Council, the Environment Agency announced plans for the next phase of the Leeds Flood Alleviation Scheme. With the goal of lowering the risk of flooding along the River Aire, the GBP112.1 million project will reduce the flow of rainwater into the river and mitigate the impacts of climate change.²⁸⁰⁴

On 16 December 2018, the Energy and Clean Growth Minister Claire Perry committed GBP1.2 million in funding to a Pacific Regional Nationally Determined Contributions Hub to support Pacific Island countries in implementing their Paris Agreement commitments.²⁸⁰⁵

On 14 January 2019, the UK announced its Clean Air Strategy aimed at tackling air pollution. This plan will set a long-term target to reduce public exposure to particulate matter, which the World Health Organization has identified as the most damaging pollutant.²⁸⁰⁶

On 22 January 2019, it was announced that UK aid from DFID was leading analysis from the UK Centre for Ecology & Hydrology in collaboration with global experts. This analysis seeks to track mega storms, their scale, and why they are occurring more regularly. This data will be used to identify at-risk areas in Burkina Faso and Senegal, and provide information to design early warning systems and storm-resistant infrastructure to protect homes, schools, hospitals and roads. DFID is also supporting 700,000 people in Burkina Faso by sending updates and warnings via text message and advising farmers on how to protect their crops.²⁸⁰⁷

²⁸⁰² Plan to enable first UK carbon capture project from the mid 2020s announced at world-first summit, UK Government (London) 28 November 2018. Access Date: 19 December 2018.

<https://www.gov.uk/government/news/plan-to-enable-first-uk-carbon-capture-project-from-the-mid-2020s-announced-at-world-first-summit>

²⁸⁰³ Food scraps could be turned into environmentally friendly plastic packaging, UK Government (London) 5 December 2018. Access Date: 9 December 2018. <https://www.gov.uk/government/news/food-scraps-could-be-turned-into-environmentally-friendly-plastic-packaging>

²⁸⁰⁴ Planning application submitted for further £112.1m of Leeds flood defences, UK Government (London) 6 December 2018. Access Date: 19 December 2018. <https://www.gov.uk/government/news/planning-application-submitted-for-further-1121m-of-leeds-flood-defences>

²⁸⁰⁵ UK deepens climate change partnership with Pacific Islands, government of the United Kingdom (London) 17 December 2019. Access Date: 10 March 2019. <https://www.gov.uk/government/news/uk-deepens-climate-change-partnership-with-pacific-islands>.

²⁸⁰⁶ government launches world leading plan to tackle air pollution, government of the United Kingdom (London) 14 January 2019. Access Date: 10 March 2019. <https://www.gov.uk/government/news/government-launches-world-leading-plan-to-tackle-air-pollution>.

²⁸⁰⁷ UK aid protects thousands from extreme weather as ‘mega storms’ tracked across Africa, government of the United Kingdom (London) 22 January 2019. Access Date: 15 March 2019. <https://www.gov.uk/government/news/uk-aid-protects-thousands-from-extreme-weather-as-mega-storms-tracked-across-africa>

On 6 February 2019, UK PACT (Partnering for Accelerated Climate Transitions), an international climate finance programme of the UK Department of Business, Energy and Industrial Strategy, announced a partnership with the Carbon Trust in Colombia and Colombian Fund for Non-Conventional Renewable Energies and Efficient Energy Management. This partnership will provide technical assistance to UPME, the Colombia government's planning agency for energy and mining. The project aims to improve the provision of energy access in remote regions of Colombia and reduce greenhouse gas emissions.²⁸⁰⁸

On 25 February 2018, the Extractive Industries Transparency Initiative (EITI) Multi-Stakeholder Group published the latest UK EITI Reconciliation Report of 2017. The EITI is a global initiative to promote the open and accountable management of natural resources. This report is designed to improve accountability and public trust for revenues paid and received for a country's oil, gas and mineral resources.²⁸⁰⁹

On 28 February 2019, the Environment Agency published a new economic assessment to support policy planning for flooding and coastal risk management over the next 50 years. The study uses climate change, population, and mapping data to set out potential future scenarios and assess how funding could be best allocated to meet these challenges.²⁸¹⁰

On 7 March 2019, Minister for Africa Harriett Baldwin announced new funding to provide people and companies across Africa with access to affordable and clean energy. The Department for International Development's Transforming Energy Access programme has already helped people and businesses across Africa cut 2 million tonnes of carbon emissions and improve the lives of 3.2 million people living in the low-income bracket.²⁸¹¹

On 9 March 2019, Health Minister Nicola Blackwood announced up to GBP56 million in funding for research on public health challenges. This will include research on the potential health effects of climate change, air pollution, antimicrobial resistance and global pandemics.²⁸¹²

On 14-15 March 2019, with the support of the Lima Stock Exchange, the British Embassy in Lima organised the Second Conference on Green Finance in the Pacific Alliance. This conference aims to contribute to the development of the green and climate finance market in Pacific Alliance member countries. The conference created dialogue and consensus-building on green finance in the Pacific Alliance, in order to increase private investment in sustainable and environmentally friendly projects.²⁸¹³

²⁸⁰⁸ UK PACT's first project in Colombia will improve energy access, government of the United Kingdom (London) 6 February 2019. Access Date: 15 March 2019. <https://www.gov.uk/government/news/uk-pacts-first-project-in-colombia-will-improve-energy-access>

²⁸⁰⁹ UK government delivers key strand of international transparency agenda, government of the United Kingdom (London) 28 February 2019. Access Date: 10 March 2019. <https://www.gov.uk/government/news/uk-government-delivers-key-strand-of-international-transparency-agenda>.

²⁸¹⁰ Environment Agency publishes new evidence to plan for flood and coastal risk up to 2065, government of the United Kingdom (London) 28 February 2019. Access Date: 10 March 2019. <https://www.gov.uk/government/news/environment-agency-publishes-new-evidence-to-plan-for-flood-and-coastal-risk-up-to-2065>.

²⁸¹¹ UK aid to give clean energy boost to Africa, GOV.UK (London) 7 March 2019. Access Date: 25 May 2019. <https://www.gov.uk/government/news/uk-aid-to-give-clean-energy-boost-to-africa>

²⁸¹² New funding to research health impact of climate change, GOV.UK (London) 9 March 2019. Access Date: 25 May 2019. <https://www.gov.uk/government/news/new-funding-to-research-health-impact-of-climate-change>

²⁸¹³ British Embassy in Lima organises II Conference on Green Finance in the Pacific Alliance, UK government (London) 26 March 2019. Access Date: 20 June 2019. <https://www.gov.uk/government/news/british-embassy-in-lima-organises-ii-conference-on-green-finance-in-the-pacific-alliance>

On 15 March 2019, through InfraCo Africa, a Private Infrastructure Development Group company, the government will invest USD2.2 million in the development of two solar plants in rural Kenya.²⁸¹⁴

On 21 March 2019, the government contributed another GBP25 million to the Clean Bus Technology Fund to retrofit buses and bring them to low emission standards.²⁸¹⁵

On 4 April 2019, Loughborough University and the World Bank's Energy Sector Management Assistance Programme joined forces in leading a UK Aid research project. The project seeks to find innovative, clean and modern alternatives to biomass fuels, such as charcoal and wood. UK Aid strives to develop efficient electric and gas cooking appliances as alternatives to charcoal and wood stoves.²⁸¹⁶

On 1 May 2019, during a visit to Nigeria, Foreign Secretary Jeremy Hunt announced funding of GBP 153 million to boost climate resilience in Ethiopia and help farmers across Africa and South Asia adapt to the effects of climate change.²⁸¹⁷

On 2 May 2019, the Committee on Climate Change published its policy advice, recommending a 2050 net zero emissions target. The Secretary of State for Business, Energy and Industrial Strategy welcomed the 'Net Zero' report.²⁸¹⁸

On 9 May 2019, the Environmental Agency launched its long-term strategy to tackle flooding and coastal change. The strategy envisions for all infrastructure to become flood-resilient by 2050, and calls for the development of consistent standards for flood and coastal resilience across the country.²⁸¹⁹

On 15 May 2019, the government announced funding of GBP25 million to support 22 projects aimed at de-carbonising the transport sector. Business Secretary Greg Clark stated: "investments like these will also enable us to realise our commitment for all new cars and vans to be effectively zero emission by 2040."²⁸²⁰

²⁸¹⁴ UK aid to give clean energy boost to Kenya, GOV.UK (London) 15 March 2019. Access Date: 26 May 2019. <https://www.gov.uk/government/news/uk-aid-to-give-clean-energy-boost-to-kenya>

²⁸¹⁵ government funds bus industry to improve air quality, UK government (London) 21 March 2019. Access Date: 20 June 2019. <https://www.gov.uk/government/news/government-funds-bus-industry-to-improve-air-quality>

²⁸¹⁶ Loughborough University leads a UK aid programme to tackle climate change, GOV.UK (London) 4 April 2019. Access Date: 26 May 2019. <https://www.gov.uk/government/news/loughborough-university-leads-a-uk-aid-programme-to-tackle-climate-change>

²⁸¹⁷ Jeremy Hunt: Effects of climate change are fuelling conflict, UK to drive forward the global response, UK government (London) 1 May 2019. Access Date: 20 June 2019. <https://www.gov.uk/government/news/jeremy-hunt-effects-of-climate-change-are-fuelling-conflict-uk-to-drive-forward-the-global-response>

²⁸¹⁸ Secretary of State for Business, Energy and Industrial Strategy welcomes the Committee on Climate Change 'Net Zero' report, GOV.UK (London) 2 May 2019. Access Date: 30 May 2019. <https://www.gov.uk/government/news/secretary-of-state-for-business-energy-and-industrial-strategy-welcomes-the-committee-on-climate-change-net-zero-report>

²⁸¹⁹ Environment Agency Chair calls for new approach to flood and coastal resilience, UK government (London) 9 May 2019. Access Date: 20 June 2019. <https://www.gov.uk/government/news/environment-agency-chair-calls-for-new-approach-to-flood-and-coastal-resilience>

²⁸²⁰ government awards £25 million to fund zero-emission transport innovations, UK government (London) 15 April 2019. Access Date: 20 June 2019. <https://www.gov.uk/government/news/government-awards-25-million-to-fund-zero-emission-transport-innovations>

On 16 May 2019, the government published a new indicator framework for its 25 Year Environment Plan. This makes the UK one of the first countries to establish a comprehensive indicator list to monitor environmental progress.²⁸²¹

On 19 May 2019, the government announced GBP10 million in funding to plant over 130,000 urban trees. Environment Secretary Michael Gove announced that grants will be made available over the next two years to support green town and city spaces.²⁸²²

On 6 June 2019, the government launched a new campaign to inform drivers about greener fuels. Filling stations across the UK will start rolling out new labels, which will help educate drivers on the benefits of biofuels. Petrol, which contains up to 5% renewable ethanol, will be labelled 'E5.' Diesel, which contains up to 7% biodiesel, will be labelled as 'B7.'²⁸²³

The UK has taken ambitious climate action to implement the Paris Agreement, while also supporting adaptation activities by disbursing funds to support resilience measures both in the UK and abroad.

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

Analysts: David Manocchio and Krishanu Ranwan

United States: N/A

On 1 June 2017, the United States withdrew from the Paris Agreement. Furthermore, the United States is not included in the text of this commitment made at the G7 Charlevoix summit. Therefore, no compliance score is assigned to this report, and U.S. performance will not be considered in the compliance average of this report.²⁸²⁴

On 2 August 2018, President Donald Trump rolled back fuel emission standards put in place by the Obama administration, which previously required light cars made after 2012 to become almost twice as energy-efficient by 2025, averaging nearly 54 miles per gallon. The Trump administration will halt mileage targets at 34 miles per gallon by 2021.²⁸²⁵

On 13 August 2018, President Trump signed the National Defense Authorization Act, which gives the U.S. Department of Defense USD717 billion to protect military infrastructure from the effects of rising sea levels and flooding.²⁸²⁶

On 21 August 2018, the Environmental Protection Agency (EPA) proposed the Affordable Clean Energy Rule, which “establishes emission guidelines for states to use when developing plans to limit

²⁸²¹ First review of 25 Year Environment Plan published, UK government (London) 16 May 2019. Access Date: 20 June 2019. <https://www.gov.uk/government/news/first-review-of-25-year-environment-plan-published>

²⁸²² government delivers new £10m fund to plant over 130,000 urban trees, GOV.UK (London) 19 May 2019. Access Date: 30 May 2019. <https://www.gov.uk/government/news/government-delivers-new-10m-fund-to-plant-over-130000-urban-trees>

²⁸²³ government launches new campaign to inform drivers about greener fuels, GOV.UK (London) 6 June 2019. Access Date: 8 June 2019. <https://www.gov.uk/government/news/government-launches-new-campaign-to-inform-drivers-about-greener-fuels>

²⁸²⁴ Paris Climate Agreement: World reacts as Trump pulls out of global accord. The Guardian (Washington D.C) 2 June 2017. Access Date: 8 September 2017. <https://www.theguardian.com/environment/live/2017/jun/01/donald-trump-paris-climate-agreement-live-news>

²⁸²⁵ Trump Administration Unveils Its Plan to Relax Car Pollution Rules, New York Times (New York) 2 August 2018. Access Date: 4 November 2018. <https://www.nytimes.com/2018/08/02/climate/trump-auto-emissions-california.html>

²⁸²⁶ The Department of Defense wants to protect itself from climate change threats it's helping to spur, Grist (Seattle) 15 August 2018. Access Date: 18 October 2018. <https://grist.org/article/the-department-of-defense-wants-to-protect-itself-from-climate-change-threats-its-helping-to-spur/>

GHGs [greenhouse gases] at their power plants.”²⁸²⁷ The plan reverses rules from the Obama Administration designed to curtail coal emissions of carbon dioxide and methane.²⁸²⁸

On 4 September 2018, along with Australia and Japan, the US submitted a proposal for Article 9.7 of the Paris Agreement. Article 9.7 refers to guidelines for middle and high-income states with regards to reporting climate finance resources they provide to low-income states. The proposed changes include removing specific rules in Article 9.7 that account for these contributions, which can mean that commercial loans can count towards a middle or high-income state’s climate finance obligation to low-income states.²⁸²⁹

On 18 September 2018, the EPA announced new rollbacks of Obama-era methane rules. The new rules reduce the requirement for oil and gas companies to monitor and report on methane emissions from wells and other operations.²⁸³⁰

On 11 October 2018, the EPA announced that it will disband the Particulate Matter Review Panel, which previously helped the agency determine what level of pollutants are safe to breathe.²⁸³¹

On 12 October 2018, in partnership with the World Bank Group and France, the government announced the establishment of a USD145-million Global Risk Financing Facility to help vulnerable countries manage the financial impact of climate change and natural hazard-induced shocks.²⁸³²

On 23 October 2018, EPA announced a USD555,000 grant to the Coalition for Sustainable Initiatives to support the replacement of old diesel-powered vehicles with new counterparts in the Great Lakes states, in an effort to reduce vehicular diesel emissions.²⁸³³ The coalition aims to educate society about sustainability and supports sustainable transportation initiatives.²⁸³⁴

On 24 October 2018, the Department of the Interior approved a plan that would allow companies to drill for oil near the Alaska coast. This is the first of such measures allowing oil and gas wells in

²⁸²⁷ News release: EPA Proposes Affordable Clean Energy (ACE) Rule, EPA (Washington D.C.) 21 August 2018. Access Date: 18 October 2018. <https://www.epa.gov/newsreleases/epa-proposes-affordable-clean-energy-ace-rule>

²⁸²⁸ EPA unveils new Trump plan gutting Obama power plant rules, Miranda Green, The Hill (Washington D.C) 21 August 2018. Access Date: 4 November 2018. <https://thehill.com/policy/energy-environment/402798-epa-unveils-new-trump-plan-gutting-obama-power-plant-rules>

²⁸²⁹ Submission by Australia, Japan, and the United States: SBTSTA (13) Modalities for the accounting of financial resources provided and mobilized through public interventions in accordance with Article 9, paragraph 7, of the Paris Agreement, United Nations, United Nations Framework Convention on Climate Change (New York City) 4 September 2018. Access Date: 11 October 2018. https://unfccc.int/sites/default/files/resource/SBSTA48.2.CRP_i13.pdf

²⁸³⁰ Waste Prevention, Production Subject to Royalties, and Resource Conservation; Rescission or Revision of Certain Requirements, Bureau of Land Management (Washington D.C) 18 September 2018. Access Date: 4 November 2018. https://www.blm.gov/sites/blm.gov/files/Final%20Rule%20-1004-AE53%20-%20Ready%20for%20OFR%209.18.18_508%20%281%29.pdf

²⁸³¹ E.P.A. to Disband a Key Scientific Review Panel on Air Pollution, The New York Times (New York City) 11 October 2018. Access Date: 4 November 2018. <https://www.nytimes.com/2018/10/11/climate/epa-disbands-pollution-science-panel.html>

²⁸³² World Bank Group, Germany, and UK Launch \$145 Million Financing Facility to Support Earlier Action on Climate and Disaster Shocks, World Bank (Washington) 12 October 2018. Access Date: 28 October 2018. <https://www.worldbank.org/en/news/press-release/2018/10/12/world-bank-group-germany-and-uk-launch-145-million-financing-facility-to-support-earlier-action-on-climate-and-disaster-shocks>

²⁸³³ News release: EPA Announces \$555,000 to Coalition for Sustainable Initiatives to Reduce Diesel Pollution in Great Lakes States, EPA (Chicago) 23 October 2018. Access Date: 7 December 2018. <https://www.epa.gov/newsreleases/epa-announces-555000-coalition-sustainable-initiatives-reduce-diesel-pollution-great>

²⁸³⁴ Our Mission, Coalition for Sustainable Initiatives (Glendale) 2018. Access Date: 7 December 2018. <http://cfsi-inc.org/mission/>

Arctic federal waters. According to Interior Secretary Ryan Zinke, “American energy dominance is good for the economy, the environment, and our national security.”²⁸³⁵

On 13 November 2018, EPA Acting Administrator Andrew Wheeler inaugurated the Cleaner Trucks Initiative, which aims to reduce the emissions of Nitrogen Oxide from heavy-duty trucks.²⁸³⁶

On 23 November 2018, the National Climate Assessment released its Fourth Climate Assessment documenting the long-term impacts of climate change on water, agriculture, human health, and the American economy.²⁸³⁷ President Trump stated that he does not believe in the findings laid out in the report.²⁸³⁸

On 6 December 2018, the Department of the Interior eased oil and gas drilling controls across 11 states. This follows the Trump administration’s plans to open more public lands to oil and gas production.²⁸³⁹

On 6 December 2018, the EPA announced new revisions to section 111(b) of the Clean Air Act, which revoked the EPA’s 2015 decision that carbon capture and storage technologies are the best way to reduce emissions from coal-fired power stations.²⁸⁴⁰ This new ruling weakens regulations of emissions produced by coal-fired plants.²⁸⁴¹

On 20 December 2018, EPA announced that funding of USD40 million will be available through the Diesel Emission Reduction Program. This funding will support projects that reduce emissions from older existing diesel engines across 10 EPA regions. The program aims to improve air quality from diesel engines in the transportation sector.²⁸⁴²

On 14 February 2019, the White House released a document outlining the formation of a panel to determine the extent to which climate change poses a risk to national security.²⁸⁴³

²⁸³⁵ The Trump administration just approved a plan to drill for oil in Alaska’s federal waters. It’s a major first. The Washington Post (Washington D.C.) 24 October 2018. Access Date: 22 December 2018. <https://www.washingtonpost.com/energy-environment/2018/10/24/trump-administration-just-approved-plan-drill-oil-alaskas-federal-waters-its-major-first/>

²⁸³⁶ News release: EPA Acting Administrator Wheeler Launches Cleaner Trucks Initiative, EPA (Washington D.C) 13 November 2018. Access Date: 7 December 2018. <https://www.epa.gov/newsreleases/epa-acting-administrator-wheeler-launches-cleaner-trucks-initiative>

²⁸³⁷ Fourth Climate Assessment, National Climate Assessment (Washington D.C.) 26 November 2018. Access Date: 7 December 2018. <https://nca2018.globalchange.gov/>

²⁸³⁸ Trump on own administration’s climate report: ‘I don’t believe it’, The Guardian (Washington D.C.) 26 November 2018. Access Date: 7 December 2018. <https://www.theguardian.com/us-news/2018/nov/26/trump-national-climate-assessment-dont-believe>

²⁸³⁹ US to ease oil drilling controls protecting imperiled bird, The Associated Press (Montana) 7 December 2018. Access Date: 22 December 2018. <https://www.apnews.com/abae2a70c394ab5afc449a1489a2fd6>

²⁸⁴⁰ News release: EPA Proposes 111(b) Revisions to Advance Clean Energy Technology, EPA (Washington D.C) 6 December 2018. Access Date: 7 December 2018. <https://www.epa.gov/newsreleases/epa-proposes-111b-revisions-advance-clean-energy-technology>

²⁸⁴¹ Trump EPA moves to kill Obama’s clean-air rule to encourage new coal plants, Yahoo News (New York City) 6 December 2018. Access Date: 7 December 2018. <https://ca.news.yahoo.com/trump-epa-kills-obamas-onerous-clean-air-rule-encourage-new-coal-plants-202319153.html>

²⁸⁴² News release: EPA Announces \$1.5 Million in Funding for Four-State Region to Reduce Emissions from Diesel Engines, EPA (Lenexa) 20 December 2018. Access Date: 22 February 2019. <https://www.epa.gov/newsreleases/epa-announces-15-million-funding-four-state-region-reduce-emissions-diesel-engines>

²⁸⁴³ White House readies panel to question security risks of climate, Reuters (Washington D.C.) 20 February 2019. Access Date: 23 February 2019. <https://www.reuters.com/article/us-usa-trump-climatechange/white-house-readies-panel-to-question-security-risks-of-climate-idUSKCN1Q92AR>

On 15 February 2019, the Consolidated Appropriations Act 2019 enacted the remaining United States Federal Budget for 2019, which includes funding of USD776 million for national environmental goals, USD 140million for the Global Environment Facility, USD1.3 billion for multilateral institutions such as World Bank that are key providers of climate finance, and US29 million to support developing nations in eliminating ozone-depleting substances as part of the Montreal Protocol Multilateral Fund. No funding was allocated to the Green Climate Fund, Intergovernmental Panel on Climate Change or the United Nations Framework Convention on Climate Change.²⁸⁴⁴

On 6 March 2019, EPA released the annual Automotive Trends Report, which details the performance of vehicles and manufacturers in meeting EPA greenhouse gas emissions standards. The report states that fuel economy has improved and auto manufacturers are complying with the EPA emissions standards.²⁸⁴⁵

On 15 March 2019, the Trump administration announced that it will dismantle the 2015 Sage Grouse Conservation Plans, which was negotiated by many stakeholders from industry to conservation groups. The new directive gives states more control over which natural habitats they can open for fossil fuel extraction.²⁸⁴⁶

On 29 March 2019, President Trump issued a new permit for the Keystone XL pipeline. The pipeline will carry crude oil from the oil sands of western Canada to refineries on the U.S. Gulf Coast. Approval was initially blocked due to the government not carrying out sufficient environmental due diligence.²⁸⁴⁷

On 9 April 2019, President Trump signed two executive orders speeding up the construction of oil and gas pipelines and limiting the tools states can use to block pipeline construction.²⁸⁴⁸

On 1 May 2019, EPA announced USD3.8 million in funding for clean diesel projects in Alaska and northwestern states. This funding is part of the EPA's Diesel Emissions Reduction Act (DERA) grants program.²⁸⁴⁹

On 2 May 2019, EPA awarded more than USD9.3 million to replace 473 old diesel school buses across various states and territories. The school bus fleets will receive rebates through DERA.²⁸⁵⁰

²⁸⁴⁴ US Climate Finance Improves with 2019 Budget, But There's Still a Long Way to Go, World Resources Institute (Washington D.C.) 20 February 2019. Access Date: 1 March 2019. <https://www.wri.org/blog/2019/02/us-climate-finance-improves-2019-budget-theres-still-long-way-go>

²⁸⁴⁵ News release: Fuel Economy Reaches New Record, Manufacturers Meet Greenhouse Gas Standards, EPA Report Shows, EPA (Washington D.C.) 6 March 2019. Access Date: 9 June 2019. <https://www.epa.gov/newsreleases/fuel-economy-reaches-new-record-manufacturers-meet-greenhouse-gas-standards-epa-2>

²⁸⁴⁶ Sage-grouse conservation plan amendments supported by affected states' governors, US Department of the Interior, Bureau of Land Management (Washington, DC) 15 March 2019. Access Date: 20 June 2019. <https://www.blm.gov/press-release/sage-grouse-conservation-plan-amendments-supported-affected-states-governors>

²⁸⁴⁷ Trump tries fresh approach with long-delayed Keystone XL pipeline, Reuters News (Washington, DC) 29 March 2019. Access Date: 20 June 2019. <https://ca.reuters.com/article/businessNews/idCAKCN1RA2DG-OCABS>

²⁸⁴⁸ Trump Signs Orders to Speed Up Oil and Gas Pipeline Construction, The New York Times (New York) 10 April 2019. Access Date: 20 June 2019. <https://www.nytimes.com/2019/04/10/business/energy-environment/trump-oil-gas-pipelines.html>

²⁸⁴⁹ News release: EPA provides \$3.8 million to Alaska and NW states and partners for diesel pollution reduction efforts, EPA (Seattle) 1 May 2019. Access Date: 8 June 2019. <https://www.epa.gov/newsreleases/epa-provides-38-million-alaska-and-nw-states-and-partners-diesel-pollution-reduction>

²⁸⁵⁰ News release: EPA Awards Over \$9.3 Million to Clean Up School Buses, EPA (San Juan) 2 May 2019. Access Date: 8 June 2019. <https://www.epa.gov/newsreleases/epa-awards-over-93-million-clean-school-buses-9>

On 4 June 2019, EPA Acting Administrator Andrew Wheeler amended the emergency release notification regulations under the Emergency Planning and Community Right-to-Know Act. This amendment states that emissions from farm animal waste are not required to be reported under the act.²⁸⁵¹

On 8 June 2019, the White House prevented a staff member of a State Department intelligence agency from issuing a written testimony that suggested the catastrophic nature and national security consequences of anthropogenic climate change.²⁸⁵²

Since the United States is not included in the text of this commitment made at the G7 Charlevoix summit, no compliance score is assigned to this report.

Analyst: Vibbor Robotgi

European Union: +1

The European Union has fully complied with its commitment to reaffirm its strong commitment to implement the Paris Agreement, through ambitious climate action; in particular through strengthening and financing resilience and reducing vulnerability.

On 14 June 2018, new EU targets for renewables, including self-consumption and biofuels, were agreed to by parliament and council negotiators. By 2030, renewables should provide at least 32 percent of the EU's gross final consumption, with a clause for revising this target by 2023.²⁸⁵³

On 17 July 2018, China and the EU reaffirmed their commitment to the Paris Agreement in a joint statement after the 20th EU-China Summit held in Beijing. In support of 24th Conference of the Parties, the leaders reiterated the importance of addressing the impacts of climate change. The leaders of both parties confirmed that a major component of the EU-China 2020 Strategic Agenda for Cooperation will include aspects of climate change and components of the Paris Agreement.²⁸⁵⁴

On 17 July 2018, Europe's Trade Commissioner Cecilia Malmström stated that participation in the Paris Agreement was a prerequisite to striking trade deals with Europe.²⁸⁵⁵

On 26 September 2018, during the One Planet Summit, the EU launched the Joint Pacific Initiative for Biodiversity, Climate Change, and Resilience alongside France, Australia and New Zealand. The EUR21 million initiative received EUR10 million each from the EU and France, with the remaining EUR2 million provided by Australia and New Zealand. The aim of this initiative is to build an international coalition for climate action and biodiversity protection.²⁸⁵⁶

²⁸⁵¹ News release: What They Are Saying | EPA Adds Reporting Exemption Under EPCRA for Air Emissions from Animal Waste, EPA (Washington D.C.) 5 June 2019. Access Date: 8 June 2019. <https://www.epa.gov/newsreleases/what-they-are-saying-epa-adds-reporting-exemption-under-epcra-air-emissions-animal>

²⁸⁵² Washington Post: White House blocked State Department agency from warning about climate change, CNN (Washington D.C.) 8 June 2019. Access Date: 9 June 2019. <https://edition.cnn.com/2019/06/08/politics/state-department-climate-change-house/index.html>

²⁸⁵³ Energy: new target of 32% from renewables by 2030 agreed by MEPs and ministers, European Parliament (Brussels) 14 June 2016. Access Date: 4 November 2018. <http://www.europarl.europa.eu/news/en/press-room/20180614IPRO5810/energy-new-target-of-32-from-renewables-by-2030-agreed-by-meps-and-ministers>

²⁸⁵⁴ China, EU Reaffirm Strong Commitment to Paris Agreement, United Nations (New York) 17 July 2018. Access Date: 27 October 2018. <https://unfccc.int/news/china-eu-reaffirm-strong-commitment-to-paris-agreement>

²⁸⁵⁵ EU-Japan trade deal first to carry Paris climate clause, Climate Home News (London) 17 July 2018. Access Date: 15 October 2018, <http://www.climatechangenews.com/contact-us/>

²⁸⁵⁶ Joint Communique on the Launch of the Joint Pacific Initiative for Biodiversity, Climate Change and Resilience, European Commission. 26 September 2018. Access Date: 3 November 2018. https://ec.europa.eu/europeaid/news-and-events/launch-joint-pacific-initiative-biodiversity-climate-change-and-resilience_en

On 8 October 2018, Commissioners Miguel Arias Cañete and Carlos Moedas welcomed the UN special climate change report on the 1.5° Celsius global warming limit, commissioned by the Intergovernmental Panel on Climate Change. Commissioners Arias Cañete and Moedas stated that “the EU has been at the forefront of addressing the root causes of climate change and strengthening a concerted global response to it in the framework of the Paris Agreement. Today’s report is a remarkable endeavor of scientists to inform policy-makers worldwide and society at large. EU-funded research provided indispensable input to this undertaking.”²⁸⁵⁷

On 9 October 2018, the Council of European Environment Ministers set a new goal for the reduction of automobile carbon dioxide emissions, advocating for the reduction of new vehicles’ emissions by 35 percent by 2030, in comparison to 2021.²⁸⁵⁸

On 18 October 2018, the Environment Committee of the European Parliament called for 20 percent of new heavy-duty vehicles to be zero or low-emissions by 2030. The committee also called for manufacturers to cut their carbon dioxide emissions by 35 percent and for 75 percent of urban buses to be emission-free by 2030. This proposal also calls upon manufacturers to ensure that zero and low-emission vehicles represent 20 percent of the market share of sales of new cars and vans by 2030 and 5 percent in 2025.²⁸⁵⁹

On 13 November 2018, the European Parliament approved four of eight legislative proposals on renewables and energy efficiency as a part of its Clean Energy for All Europeans package introduced in 2016. These new rules bring regulatory certainty and enable conditions for investments in these sectors.²⁸⁶⁰

On 23 November 2018, the EU announced funding of EUR8.05 million to support disaster and climate resilience in Central Asia under the Disaster Risk Management programme. An additional EUR3.9 million will fund the EU-Central Asia Enhanced Regional Cooperation on Environment, Climate Change and Water to improve the environment, climate change, and water policies at national levels in Central Asia.²⁸⁶¹

On 28 November 2018, the EU adopted the “A Clean Planet for All strategy” with a strategic long-term vision for a prosperous, modern, competitive and climate neutral economy by 2050. Commissioner for Climate Action and Energy Miguel Arias Cañete stated that “going climate neutral is necessary, possible and in Europe’s interest. It is necessary to meet the long-term temperature goals of the Paris Agreement. It is possible with current technologies and those close to deployment.

²⁸⁵⁷ Commissioners Miguel Arias Cañete and Carlos Moedas welcome the UN climate change report on 1.5° C global warming limit, European Commission Press Release Database (Brussels) 8 October 2018, Access Date: 15 October 2018. http://europa.eu/rapid/press-release_STATEMENT-18-6043_en.htm

²⁸⁵⁸ CO2: a new European goal to ensure that new vehicles consume less fuel, Government of France (Paris) 11 October 2018. Access Date: 2 November 2018. <https://www.gouvernement.fr/en/co2-a-new-european-goal-to-ensure-that-new-vehicles-consume-less-fuel>

²⁸⁵⁹ Environment Committee MEPs push for cleaner trucks and electric buses, European Parliament (Brussels) 18 October 2018. Access Date: 4 November 2018. <http://www.europarl.europa.eu/news/en/press-room/20181017IPR16396/environment-committee-meps-push-for-cleaner-trucks-and-electric-buses>

²⁸⁶⁰ Commission welcomes European Parliament adoption of key files of the Clean Energy for All Europeans package, European Commission (Brussels) 13 November 2018. Access Date: 22 December 2018. http://europa.eu/rapid/press-release_IP-18-6383_en.htm

²⁸⁶¹ EU to promote sustainable development in Central Asia with €124 million, European Commission (Brussels) 23 November 2018. Access Date: 22 December 2018. http://europa.eu/rapid/press-release_IP-18-6525_en.htm

And it is in Europe's interest to stop spending on fossil fuel imports and invest in meaningful improvements to the daily lives of all Europeans."²⁸⁶²

On 3 December 2018, Vice President of the European Union Maros Sefcovic reiterated at 24th Conference of the Parties (COP) to the United Nations Framework Convention on Climate Change that the EU is set to achieve its targets according to the Paris Agreement. The EU is committed to investing 0.8 percent of its gross domestic product for climate change purposes. This is possible based on existing technological solutions, and will, in turn, boost the EU's growth by 2 percent.²⁸⁶³

On 3 December 2018, the EU reaffirmed at COP24 that it is in a new phase of implementing all key legislation related to climate change. It was confirmed that the EU Emissions Trading System has been modernised, and new targets cover all member states and sectors such as transportation and waste.²⁸⁶⁴

On 18 December 2019, the Commission concluded negotiations on the Clean Energy for All Europeans package. According to the Commissioner for Climate Action and Energy Miguel Arias Cañete, "the new rules will create more competition and will allow consumers to participate more actively in the market and play their part in the clean energy transition. I am particularly pleased that we agreed on a balanced approach to limit capacity mechanisms and reconcile security of supply with our climate objectives. Capacity mechanisms will not be used as a backdoor subsidy of high-polluting fossil fuels as that would go against our climate objectives."²⁸⁶⁵

On 8 January 2019, the European Commission approved further funding to support the production of electricity from renewable energy sources in Lithuania. Initiated in 2012, the scheme supports producers of electricity from renewable energy sources (including wind, solar, hydro, biomass and biogas) and will run until 2029 with an overall budget EUR1.24 million.²⁸⁶⁶

On 1 February 2019, the EU-Japan Trade Agreement came into force. The agreement set ambitious standards on sustainable development, and includes for the first time a specific commitment to the Paris Agreement. The agreement strengthens EU and Japan's commitments to sustainable development and climate change.²⁸⁶⁷

On 15 February 2019, the European Commission announced an investment of EUR116.1 million for projects under the LIFE programme for the Environment and Climate Action.²⁸⁶⁸ The funding will support projects in Austria, Bulgaria, Czechia, Estonia, Finland, Greece, Hungary, Italy, Portugal and

²⁸⁶² The Commission calls for a climate neutral Europe by 2050, European Commission (Brussels) 28 November 2018. Access Date: 1 December 2018. http://europa.eu/rapid/press-release_IP-18-6543_en.htm

²⁸⁶³ Vice-President Šefčovič at the COP24 — EU Leaders Summit (Katowice) 3 December 2018. Access Date: 5 December 2018. http://europa.eu/rapid/press-release_SPEECH-18-6646_en.htm

²⁸⁶⁴ UN climate conference in Katowice: EU aims for adoption of rules and guidelines for implementing Paris Agreement (Katowice) 3 December 2018. Access Date: 5 December 2018. https://ec.europa.eu/clima/news/un-climate-conference-katowice-eu-aims-adoption-rules-and-guidelines-implementing-paris_en

²⁸⁶⁵ Commission welcomes political agreement on conclusion of the Clean Energy for All Europeans package, EU Commission Press Release (Brussels) 18 December 2018. Access Date: 15 March 2019. http://europa.eu/rapid/press-release_IP-18-6870_en.htm

²⁸⁶⁶ State aid: Commission approves support for production of electricity from renewable energy sources and for electro-intensive users in Lithuania, EU Commission Press Release (Brussels) 8 January 2019. Access Date: 15 March 2019. http://europa.eu/rapid/press-release_IP-19-242_en.htm

²⁸⁶⁷ EU-Japan trade agreement enters into force, EU Press Release (Brussels) 31 January 2019. Access Date: 16 March 2019. http://europa.eu/rapid/press-release_IP-19-785_en.htm

²⁸⁶⁸ EU invests € 116.1 million to improve the quality of life of Europeans, EU Commission Press Release (Brussels) 15 February 2019. Access Date: 1 March 2019. http://europa.eu/rapid/press-release_IP-19-1128_en.htm

Slovenia.²⁸⁶⁹ These integrated projects will help member states comply with EU environmental legislation through coordination and scale.²⁸⁷⁰

On 18 February 2019, the European Commission announced new legislation targeting emissions from new trucks, which will be required to have 30% lower emissions in 2030 compared to 2019 levels. This legislation will support “Member States’ emission targets, incentivise innovation, promote clean mobility solutions, strengthen the competitiveness of EU industry and stimulate employment, while reducing fuel consumption costs for transport operators and contributing to better air quality.”²⁸⁷¹

On 25 February 2019, the European Commission approved investment and operational funding for four offshore wind farms in France. The Commission concluded that these projects will contribute to the climate goals of both France and the EU.²⁸⁷²

On 26 February 2019, the European Commission announced an investment programme of over EUR10 billion for low-carbon technologies. Commissioner for Climate Action and Energy Miguel Arias Cañete stated, “our objective is to keep building a modern, competitive and socially fair Paris-aligned economy for all Europeans. For this to happen, we will need deployment of clean innovative technologies on an industrial scale. This is why we are investing in bringing to the market highly innovative technologies in energy intensive industries, in carbon capture, storage and use, in the renewable energy sector and in energy storage. We are today unleashing technological solutions in all Member States and pressing the fast-forward button in our transition to a modern and climate-neutral society in Europe.”²⁸⁷³

On 20 March 2019, the Commission announced funding of EUR750 million in support of clean energy infrastructure. The projects must have “significant impact on at least two EU countries and must increase competitiveness, enhance the EU’s energy security and contribute to sustainable development and environmental protection.”²⁸⁷⁴

On 26 March 2019, the European Commission reiterated its support for the European Parliament’s adoption of new electricity market design proposals under the Clean Energy for All Europeans package. The new rules will help EU member states with their clean energy transition and decarbonize the EU economy by 2050.²⁸⁷⁵

²⁸⁶⁹ EU invests € 116.1 million to improve the quality of life of Europeans, EU Commission Press Release (Brussels) 15 February 2019. Access Date: 1 March 2019. http://europa.eu/rapid/press-release_IP-19-1128_en.htm.

²⁸⁷⁰ EU invests € 116.1 million to improve the quality of life of Europeans, EU Commission Press Release (Brussels) 15 February 2019. Access Date: 1 March 2019. http://europa.eu/rapid/press-release_IP-19-1128_en.htm.

²⁸⁷¹ The European Parliament and the Council today reached provisional agreement on a Regulation setting, for the first time in the EU, strict CO2 emission standards for trucks, EU Commission Press Release (Brussels) 18 February 2019. Access Date: 15 March 2019. http://europa.eu/rapid/press-release_IP-19-1071_en.htm

²⁸⁷² State aid: Commission approves support for four floating demonstration offshore wind farms in France, EU Commission Press Release (Brussels) 25 February 2019. Access Date: 15 March 2019. http://europa.eu/rapid/press-release_IP-19-1412_en.htm

²⁸⁷³ Towards a climate-neutral Europe: EU invests over €10bn in innovative clean technologies, EU Commission Press Release (Brussels) 26 February 2019. Access Date: 15 March 2019. http://europa.eu/rapid/press-release_IP-19-1381_en.htm

²⁸⁷⁴ Energy Union: €750 million in EU funding available for clean energy infrastructure, European Commission (Brussels) 20 March 2019. Access Date: 20 June 2019. https://ec.europa.eu/info/news/energy-union-eu-750-million-eu-funding-available-clean-energy-infrastructure-2019-mar-20_en

²⁸⁷⁵ Clean Energy for All Europeans: Commission welcomes European Parliament's adoption of new electricity market design proposals, European Commission (Brussels) 26 March 2019. Access Date: 20 June 2019. http://europa.eu/rapid/press-release_IP-19-1836_en.htm

On 15 April 2019, the Council of the EU announced stricter emission standards for cars and light commercial vehicles. From 2030 onwards, it is expected that new cars will emit 37.5% less CO₂ and new vans will emit on average 31% less CO₂ compared to 2021 levels. Between 2025 and 2029, both cars and vans will be required to emit 15% less CO₂.²⁸⁷⁶

On 23 April 2019, under EU state aid rules, the European Commission announced funding of EUR385 million to support electricity production from renewable energy sources in Lithuania. The scheme will contribute to the EU's environmental objectives.²⁸⁷⁷

On 6 May 2019, the G7 Environment Ministers agreed on a communiqué and the Metz Charter on Biodiversity at the G7 Environment Ministers' Meeting.²⁸⁷⁸ A delegation from the EU was present and “discussed measures to tackle deforestation, plastic pollution and the degradation of coral reefs and try to form alliances between nations to act on them.”²⁸⁷⁹ The G7 environment ministers are “committed to the swift and effective implementation of the Paris Agreement [and] reaffirm its irreversibility as the essential multilateral framework to address climate change.”²⁸⁸⁰

On 29 May 2019, the EU Commission established the Breakthrough Energy Ventures Europe (BEV-E) in partnership with the European Investment Bank and Breakthrough Energy Ventures. This fund of EUR100 million will support innovative European companies and bring new clean energy technologies to the market. The first of its kind, the fund caters to the capital intensity and long development horizons that energy technologies need.²⁸⁸¹

On 3 June 2019, the EU Commission hosted a conference that brought high-level representatives and carbon market specialists together to exchange views on the rules, challenges and prospects of international carbon trading. This conference was hosted in the lead-up to COP25, set to take place in Chile in December 2019.²⁸⁸²

The EU has fully complied with its commitment to implement the Paris Agreement through ambitious climate action. Its financial contribution to the Joint Pacific Initiative for Biodiversity, Climate Change, and Resilience demonstrates its support for adaptation activities around the world.

Thus, the EU receives score of +1.

Analyst: Natasha Pirzada

²⁸⁷⁶ Stricter CO₂ emission standards for cars and vans signed off by the Council, Council of the European Union (Brussels) 15 April 2019. Access Date: 20 June 2019. <https://www.consilium.europa.eu/en/press/press-releases/2019/04/15/stricter-co2-emission-standards-for-cars-and-vans-signed-off-by-the-council/>

²⁸⁷⁷ State aid: Commission approves €385 million support for production of electricity from renewable sources in Lithuania*, European Commission (Brussels) 23 April 2019. Access Date: 20 June 2019. http://europa.eu/rapid/press-release_IP-19-2230_en.htm

²⁸⁷⁸ G7 Environment Ministers Commit to Fight Biodiversity Loss, Tackle Climate Change, Inequalities, IISD SDG Knowledge Hub. 4 June 2019. Access Date: 12 June 2019. <https://sdg.iisd.org/news/g7-environment-ministers-commit-to-fight-biodiversity-loss-tackle-climate-change-inequalities/>

²⁸⁷⁹ G7 environment ministers meet to discuss climate crisis, *livemint*. 5 May 2019. Access Date: 12 June 2019. <https://www.livemint.com/news/world/g7-environment-ministers-meet-to-discuss-climate-crisis-1557077975554.html>

²⁸⁸⁰ G7 Environment Ministers Commit to Fight Biodiversity Loss, Tackle Climate Change, Inequalities, IISD SDG Knowledge Hub. 4 June 2019. Access Date: 12 June 2019. <https://sdg.iisd.org/news/g7-environment-ministers-commit-to-fight-biodiversity-loss-tackle-climate-change-inequalities/>

²⁸⁸¹ The European Commission, European Investment Bank and Breakthrough Energy Ventures establish a new €100 million fund to support clean energy investments, European Commission (Brussels) 29 May 2019. Access Date: 20 June 2019. http://europa.eu/rapid/press-release_IP-19-2770_en.htm

²⁸⁸² High-level conference discusses way forward for international carbon market rules, European Commission (Brussels) 3 June 2019. Access Date: 21 June 2019. https://ec.europa.eu/clima/news/high-level-conference-discusses-way-forward-international-carbon-market-rules_en