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The
G20 Research Group
at Trinity College at the Munk School of Global Affairs and Public Policy
in the University of Toronto
presents the

2017 G20 Hamburg Summit Interim Compliance Report

8 July 2017 to 9 January/5 March 2018*

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

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

* Note: For seven commitments, the assessment period was from 8 July 2017 to 9 January; for the remaining 10 commitments, the assessment period extended to 5 March 2018.

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15. Environment: Waste Reduction

“Promote public information campaigns for citizens and businesses to reduce waste generation, to re-use and to facilitate their participation in waste collection systems and to avoid littering.”

G20 Action Plan on Marine Litter

Assessment

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

Background

The G20 first took up the issue of marine environment protection at the 2011 Cannes Summit, where leaders focused on efforts to prevent “accidents related to offshore oil and gas exploration and development, as well as marine transportation.”⁴²²⁴ However, industrial waste reduction was not addressed until the 2017 Hamburg summit, where the G20 agreed on a comprehensive Action Plan on Marine Litter.⁴²²⁵

Commitment Features

The commitment requires members to disseminate information on reducing waste generation, recycling, and waste collection systems participation among both general population and businesses.

To achieve full compliance, G20 members must:

⁴²²⁴ Cannes Summit Final Declaration — Building Our Common Future: Renewed Collective Action for the Benefit of All, G20 Information Centre 4 November 2011. Access date: 12 October 2017. <http://www.g20.utoronto.ca/2011/2011-cannes-declaration-111104-en.html>.

⁴²²⁵ G20 Action Plan on Marine Litter, G20 Information Centre 8 July 2017. Access date: 12 October 2017. <http://www.g20.utoronto.ca/2017/2017-g20-marine-litter.html>.

- Conduct or participate in public awareness campaigns among the general population on reducing waste generation, recycling, and participation in waste collection activities; and
- Promote awareness on these issues among the business community and/or incentivize businesses to participate in activities aimed at reducing waste generation, recycling, and improving waste collection systems.

Scoring Guidelines

-1	Member does not promote awareness on reducing waste generation, recycling, and participation in waste collection activities.
0	Member promotes awareness on reducing waste generation, recycling, and participation in waste collection activities among either general population OR businesses.
+1	Member state promotes awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population AND businesses.

Argentina: +1

Argentina has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 1 September 2017, the Federal Council of the Environment had a meeting to discuss a draft bill on hazardous waste to replace the current Law No. 24051. The replacement bill is being promoted by the Ministry of Environment and Sustainable Development.⁴²²⁶

On 11 September 2017, Minister of Environment and Sustainable Development Sergio Bergman met with a delegation of German governmental bodies and private sector representatives to discuss waste as resources that can be used as a step to circular economy.⁴²²⁷

On 25 September 2017, Minister Bergman and Mayor of the City of Santa Fe José Manuel Corral signed a cooperation agreement within the framework of the Sustainable Cities Program. In accordance with the agreement, equipment for integral management of urban solid waste will be delivered to Santa Fe. The new equipment will help to improve the quality of life of the inhabitants and contribute to a healthy environment.⁴²²⁸

On 29 September 2017, Minister Bergman held a working meeting with the executive committee of the *PROBiogás* project to produce biogas from organic solid urban waste. The project is being implemented in the localities of Las Heras, Mendoza; Rafaela, Santa Fe; and Tapalqué and Olavarría in the province of Buenos Aires. The aim of the project is to modernize the practices of integral management of the waste implemented in the country, promote circular economy, take advantage of waste energy potential, reduce the amount of resources sent to final disposal, reduce methane

⁴²²⁶ El Consejo Federal de Medio Ambiente trabaja en un nuevo proyecto de ley de residuos peligrosos. Access date: 18 December 2017. <http://ambiente.gob.ar/noticias/el-consejo-federal-de-medio-ambiente-trabaja-en-un-nuevo-proyecto-de-ley-de-residuos-peligrosos/>.

⁴²²⁷ Bergman recibió a expertos alemanes para avanzar hacia una economía circular. Access date: 18 December 2017. <http://ambiente.gob.ar/noticias/bergman-recibio-a-expertos-alemanes-para-avanzar-hacia-una-economia-circular/>.

⁴²²⁸ Ciudades sustentables: Ambiente entrega al municipio de Santa Fe equipamiento para la gestión de residuos. Access date: 18 December 2017. <http://ambiente.gob.ar/noticias/ciudades-sustentables-ambiente-entrega-al-municipio-de-santa-fe-equipamiento-para-la-gestion-de-residuos/>.

emissions and their impact of climate change, and support the strategy for the promotion of renewable energies.⁴²²⁹

On 2 October 2017, Minister Bergman delivered a tractor with shovel and backhoe to the Municipality of Silvio Pellico in Córdoba within the framework of the Sustainable Cities Program to promote the integral management of solid urban waste and the sustainable management of resources for a healthy environment.

On 30 November 2017, Minister Bergman and Mayor of Calafate Javier Belloni signed a cooperation agreement to provide waste separation equipment for the El Calafate Environmental Center to increase coverage of final waste disposal in landfills.⁴²³⁰

On 15 December 2017, Minister Bergman met with representatives of the Civil Association Nature Applied to Technology and signed a framework cooperation agreement. The parties agreed to collaborate and implement joint actions in the sustainable development sphere, particularly recycling.⁴²³¹

During the compliance period Argentina has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

Thus, it has been awarded a score of +1.

Analyst: Elizaveta Safonkina

Australia: 0

Australia has partly complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 20 November 2017, the National Food Waste Strategy was launched by the Minister for the Environment and Energy at the National Food Waste Summit. The first steps will be supported by an initial funding commitment of over USD1.3 million over 24 months. This funding will be used to support: 1) an independent organization that will develop an implementation plan and a monitoring and evaluation framework for the strategy, and coordinate priority areas of work; 2) a voluntary commitment program that will initially engage businesses and industries to commit to actions that reduce food waste; and 3) the National Food Waste Baseline so that the government can monitor and track progress towards their food waste reduction goal.⁴²³²

Australia has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among businesses but no among general population.

Thus it receives a score of 0.

Analyst: Arkadiy Khudyakov

⁴²²⁹ Avanza el proyecto Biogás del Ministerio de Ambiente y el PNUD. Access date: 18 December 2017.

<http://ambiente.gob.ar/noticias/avanza-el-proyecto-biogas-del-ministerio-de-ambiente-y-el-pnud/>.

⁴²³⁰ El Calafate profundiza el trabajo con el programa Basural Cero. Access date: 18 December 2017.

<http://ambiente.gob.ar/noticias/el-calafate-profundiza-el-trabajo-con-el-programa-basural-cero/>.

⁴²³¹ Bergman recibió a la Asociación Civil Naturaleza Aplicada a la Tecnología. Access date: 18 December 2017.

<http://ambiente.gob.ar/noticias/bergman-recibio-a-la-asociacion-civil-naturaleza-aplicada-a-la-tecnologia/>.

⁴²³² Tackling Australia's food waste, Department of the Environment and Energy 20 November 2017. Access date: 5 January 2018. <http://www.environment.gov.au/protection/national-waste-policy/food-waste>

Brazil: 0

Brazil has partially complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 29 July 2017, the Brazilian government signed a sectorial agreement within the framework of the United Nations Environment Programme with 23 associations of packaging companies. The primary goal of the agreement is to engage the Brazilian population to separate dry and organic wastes for further recycle.⁴²³³

On 21 September 2017, in order to raise public awareness, the Government of Brazil joined the UN Global Clean Seas campaign to promote actions to reduce the amount of plastics in the oceans.⁴²³⁴

Brazil has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among general population but not among businesses.

Thus it receives a score of 0.

Analyst: Logvinenko Dmitry

Canada: +1

Canada has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 26 July 2017, Member of Parliament (MP) Bernadette Jordan announced a USD2.6 million investment in Sustane Technologies, a Halifax-based company that turns landfill waste into clean-burning fuel. The investment will support the construction of a new demonstration facility in Chester. At this facility, solid waste from landfills will be transformed into recyclable materials as well as high-value fuels that burn cleaner than fossil fuels. This project is being funded through Sustainable Development Technology Canada, which works with Canadian companies to bring early-stage clean technologies to market.⁴²³⁵

On 27 July 2017, MP Vance Badawey announced that a new project in Port Colborne, Ontario had been approved under the Government of Canada's Clean Water and Wastewater Fund. The Canadian government is providing up to 50 per cent of funding for the Port Colborne's wastewater treatment facility, worth approximately USD303,333. With this investment, residents of Port Colborne will benefit from an improved wastewater treatment plan. The project includes replacing aging components and introducing upgraded processes to enhance the capacity of the facility.⁴²³⁶

On 4 August 2017, Acting Minister of Public Services and Procurement Jim Carr announced the awarding of a USD12.6 million contract to the Marine Recycling Corporation from Port Colborne, for the disposal of the Royal Canadian Navy's former Her Majesty's Canadian Ship *Preserver* and

⁴²³³ Campanha estimula separação do lixo em condomínios, Portal Brazil, 3 October 2017, Access date: 26 December 2017. <http://www.brasil.gov.br/meio-ambiente/2017/08/campanha-estimula-separacao-do-lixo-em-condominios>

⁴²³⁴ Brasil adere à mobilização mundial para combater o lixo nos oceanos, Portal Brazil, 1 December 2017, Access date: 26 December 2017. <http://www.brasil.gov.br/meio-ambiente/2017/09/brasil-adere-a-mobilizacao-mundial-para-combater-o-lixo-nos-oceanos>

⁴²³⁵ Government of Canada invests in Nova Scotia's clean technology sector to create jobs, Cision 26 July 2017. Access date: 19 December 2017. <http://www.newswire.ca/news-releases/government-of-canada-invests-in-nova-scotias-clean-technology-sector-to-create-jobs-636755853.html>

⁴²³⁶ Better wastewater treatment for Port Colborne residents, Cision 27 July 2017. Access date: 18 December 2017. <http://www.newswire.ca/news-releases/better-wastewater-treatment-for-port-colborne-residents-636958213.html>

Canadian Forces Auxiliary Vessel *Quest*. The dismantling, for both ships, is expected to be completed by summer 2019.⁴²³⁷

On 18-20 September 2017, the Compost Council of Canada held the National Organics Recycling Conference 2017.⁴²³⁸

On 16-22 October 2017, Waste Reduction Week took place. It focused on the principles of circular economy, resource efficiency, and waste reduction. The programme's educational resources and promotion of taking action aim to empower all Canadians to adopt more environmentally conscious choices. Waste Reduction Week further provides information and ideas to reduce waste in all facets of daily living, creating the solutions to the many environmental challenges we face including climate change, water pollution, and preservation of natural resources.⁴²³⁹

On 17 November 2017, Minister of Infrastructure and Communities Amarjeet Sohi announced that Enerkem Alberta Biofuels, a subsidiary of the Montreal-based Enerkem Inc., will receive USD3.5 million from the Government of Canada through the Western Innovation Initiative to build the final phase of a facility that converts non-recyclable, non-compostable municipal solid waste into liquid biofuels and chemicals. It contributes to the City of Edmonton's goal to divert up to 90 per cent of household waste from the landfill.⁴²⁴⁰

On 1 December 2017, Minister of Environment and Climate Change Catherine McKenna, announced that the Government of Canada will invest USD44.84 million for the Great Lakes Protection Initiative, which is part of the USD70.5 million of new funding allocated for freshwater protection in the 2017 federal budget. It will aim to reduce the release of harmful chemicals, focus on reducing toxic and nuisance algae, and strengthening the resilience of the Great Lakes coastal wetlands. The initiative will also prioritize identifying at risk nearshore waters, which are those most used by Canadians for drinking and recreation.⁴²⁴¹

On 6 December 2017, the Compost Council of Canada held a webinar "Composting in Times of Water Shortages." The webinar addressed composting, an effective method of reducing waste to landfill, in times of water shortages, when moisture levels drop too low. The presentation included a case study on composting fat trap waste and slurries in Cape Town, South Africa.⁴²⁴²

Canada has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

⁴²³⁷ Government of Canada awards contract for disposal of navy ships, Government of Canada 4 August 2017. Access date: 18 December 2017. https://www.canada.ca/en/public-services-procurement/news/2017/08/government_of_canadaawardscontractfordisposalofnavyships.html?wbdisable=true

⁴²³⁸ National Organics Recycling Conference 2017 CALGARY Alberta, The Compost Council of Canada. Access date: 19 December 2017. http://www.compost.org/English/attend_events.htm#NCC

⁴²³⁹ Oct. 16 — 22, 2017, Waste Reduction Week in Canada. Access date: 19 December 2017. <http://wrrcanada.com/en/about/waste-reduction-week-canada>

⁴²⁴⁰ Investments in Alberta's Clean Technology Sector Strengthens Innovative Energy Generation, Cision 17 November 2017. Access date: 18 December 2017. <http://www.newswire.ca/news-releases/investments-in-albertas-clean-technology-sector-strengthens-innovative-energy-generation-658263223.html>

⁴²⁴¹ The Government of Canada invests in Great Lakes Protection Initiative, Cision 1 December 2017. Access date: 19 December 2017. <http://www.newswire.ca/news-releases/the-government-of-canada-invests-in-great-lakes-protection-initiative-661352923.html>

⁴²⁴² Composting in Times of Water Shortage, The Compost Council of Canada. Access date: 19 December 2017. http://www.compost.org/English/free_webinars.html#Webinar

Thus it receives a score of +1.

Analyst: Angelina Belichenko

China: +1

China has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 23 August 2017, Head of the Department of Construction and Management at the Ministry of Water Resources Zu Leiming stated that China had appointed about 200,000 “river chiefs” at the provincial, city, county, and township levels to fight pollution. Responsibilities of the river chiefs include water resource protection, pollution control, and ecological restoration. They will also be held accountable if environmental damage occurs in the water bodies they take charge of.⁴²⁴³

On 27 July 2017, the State Council approved an action plan to ban trash imports and reform the solid waste import management system to protect the environment and improve people’s health. They also set a target to ban imports of solid waste that cause serious pollution by the end of 2017, asked enterprises to take more responsibility, and called for efforts to establish an international cooperation mechanism and explore new methods of waste recycling.⁴²⁴⁴

China has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

Thus it receives a score of +1.

Analyst: Tsvetkova Anna

France: +1

France has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 21 September 2017, the Environment and Energy Management Agency (ADEME) published online a guide called “Being an eco-citizen in the office.” The guide promotes waste recycling and encourages citizens to sort waste.⁴²⁴⁵

On 25 September 2017, the ADEME published online a guide called «Why think about waste prevention in terms of hygiene and cosmetics?» for a large audience.⁴²⁴⁶

On 28 September 2017, Secretary of State to the Minister for the Ecological and Solidary Transition Brune Poirson made a trip to Nantes to meet with leaders of the Economic and Civic Initiatives. During this trip, she visited a business incubator of the social and solidarity economy, which received

⁴²⁴³ China appoints 200,000 “river chiefs”, Xinhua 23 August 2017.

http://english.gov.cn/state_council/ministries/2017/08/23/content_281475810113748.htm

⁴²⁴⁴ Action plan to phase out waste imports, Site of Central People’s Government of the People’s Republic of China (English version) 27 July 2017.

http://english.gov.cn/policies/latest_releases/2017/07/27/content_281475756814340.htm

⁴²⁴⁵ Pourquoi penser à la prévention des déchets sur son lieu de travail? Ministère de la Transition écologique et solidaire 21 September 2017. Access date: 20 December 2017. https://www.ecologique-solidaire.gouv.fr/sites/default/files/11_Papier%20de%20bureau_juin2017.pdf

⁴²⁴⁶ Pourquoi penser à la prévention des déchets en matière d’hygiène et de cosmétique? Ministère de la Transition écologique et solidaire 25 September 2017. Access date: 20 December 2017. https://www.ecologique-solidaire.gouv.fr/sites/default/files/4_Hygi%C3%A8ne%20et%20cosm%C3%A9tique_juin2017.pdf

support from the ADEME and demonstrates the strong intertwining between ecology and society.⁴²⁴⁷

On 2 November 2017, the Ministry for an Ecological and Solidary Transition published online a brochure on the National Low Carbon Strategy. The brochure encourages citizens to recycle waste to reduce greenhouse gas emissions.⁴²⁴⁸

On 6 November 2017, the Ministry for an Ecological and Solidarity Transition signed a commitment with recycling enterprises to ensure flat glass recycling.⁴²⁴⁹

On 30 November 2017, an online platform was created by the Ministry for an Ecological and Solidary Transition to encourage citizens to contribute to the creation on the Circular Economy Roadmap.⁴²⁵⁰

France has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

Thus it receives a score of +1.

Analysts: Anastasiia Shkrebo and Ekaterina Rosolovskaya

Germany: +1

Germany has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 20 November 2017, the Federal Ministry for Environment advocated product longevity at the start of the European Week for Waste Reduction. It also pushed Brussels to adapt the European Ecodesign Directive to reduce the unnecessary consumption of electric appliances. The Directive contained minimum requirements for energy consumption and the durability of components in relevant appliances such as vacuum cleaners and coffee machines. Products with the German government's Blue Angel eco label already goes beyond the required legal standards. According to the label's requirements, notebook and mobile phone components should be robust, long-lasting and, if possible, easy to exchange. This also applies to wood and upholstered furniture.⁴²⁵¹

On 13 September 2017 the Round Table Against Marine Litter took place for the second time in Germany. The working groups of the Round Table submitted an interim report that made recommendations on how marine litter can be integrated into business and commercial enterprises. One of the measures to combat marine litter is the Fishing for Litter Initiative, which involves distributing large bags to commercial fisheries to collect the waste caught in their nets and transport

⁴²⁴⁷ L'économie circulaire, pilier de la transition écologique. Site du Ministère de la Transition Ecologique et Solidaire, 28 September 2017. Access date: 31 November 2017. <https://www.ecologique-solidaire.gouv.fr/leconomie-circulaire-pilier-transition-ecologique>

⁴²⁴⁸ La stratégie nationale bas-carbone (SNBC), Ministère de la Transition écologique et solidaire 02 November 2017. Access date: 20 December 2017. https://www.ecologique-solidaire.gouv.fr/sites/default/files/SNBC_Brochure_4p_FR_2015.pdf

⁴²⁴⁹ Le recyclage du verre plat : un engagement pour la croissance verte, Ministère de la Transition écologique et solidaire 08 November 2017. Access date: 20 December 2017. <https://www.ecologique-solidaire.gouv.fr/recyclage-du-verre-plat-engagement-croissance-verte>

⁴²⁵⁰ Les thèmes en débat, Ministère de la Transition écologique et solidaire 30 November 2017. Access date: 20 December 2017. <https://www.consultation-economie-circulaire.gouv.fr/les-themes-en-debat>

⁴²⁵¹ It pays to repair, Bundesministerium für Umwelt, Naturschutz, Bau und Reaktorsicherheit 20 November 2017. Access date: 19.12.2017. <https://www.bmub.bund.de/en/pressrelease/reprieren-lohnt-sich/>

it to ports. The project also hopes to raise awareness among the fishermen and be integrated as a training module at the vocational school for commercial fishers in Rendsburg.⁴²⁵²

Germany has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

Thus it receives a score of +1.

Analysts: Alena Zhogol and daria Evreeva

India: +1

India has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

From March 2018, the Indian government will appoint brand ambassadors to create awareness on the proposed ban on plastic carry bags and plastic water bottles in government offices and star hotels across the state.⁴²⁵³

India has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

Thus it receives a score of +1.

Analyst: Polina Shtanko

Indonesia: +1

Indonesia has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

As of 10 August 2017, Indonesia's government was considering construction of plastic-tar roads as a novel waste-disposal method that also produces cheaper and more durable roads compared to those built with conventional materials. The trial was carried out earlier at Udayana University in Bali, where a 700-meter stretch of plastic road was laid in July, and further plans include using discarded plastic in road construction in the cities of Jakarta, Bekasi, and Surabaya.⁴²⁵⁴ The project will be implemented jointly by the Coordinating Ministry for Maritime Affairs and Ministry of Public Works and Housing, along with the Indonesian Plastic Recycling Association to collect and sort waste in 16 large cities of Indonesia.⁴²⁵⁵

On 16 November 2017, during the discussion at the Conference of the Parties to the United Nations Framework Convention on Climate Change in Bonn, it was noted that Indonesia's consumers

⁴²⁵² "Round Table Against Marine Litter goes into round two", the Federal Ministry for Environment 13 September 2017. Access date: 5 January 2018. <https://www.umweltbundesamt.de/en/press/pressinformation/round-table-against-marine-litter-goes-into-round>

⁴²⁵³ State to appoint brand ambassadors to spread the word on plastic ban, The Indian Express 29 November 2017. Access date: 29 November 2017. <http://indianexpress.com/article/cities/mumbai/state-to-appoint-brand-ambassadors-to-spread-the-word-on-plastic-ban-4959586/>

⁴²⁵⁴ Plastic Fantastic? Indonesia plans to turn waste into road tar, Mongabay News 10 August 2017. Access date: 24 January 2018. <https://news.mongabay.com/2017/08/plastic-fantastic-indonesia-plans-to-turn-waste-into-road-tar/>

⁴²⁵⁵ Plastic Fantastic? Indonesia plans to turn waste into road tar, Mongabay News 10 August 2017. Access date: 24 January 2018. <https://news.mongabay.com/2017/08/plastic-fantastic-indonesia-plans-to-turn-waste-into-road-tar/>

organization Yayasan Lembaga Konsumen Indonesia supported the idea of immediate ban of plastic bag usage by Indonesia's central government.⁴²⁵⁶

On 7 December 2017, during GlobeAsia's "Beyond Profitability" Sustainable Business Seminar in Jakarta, the Indonesian Chamber of Commerce and Industry stressed that the Indonesian government should provide stronger incentives and regulations to help the private sector "to deal with the cost involved in making industries sustainable," including fiscal incentives, such as cooperation between the government and banks to provide lower interest rates and feed-in tariffs, paying particular attention to raising awareness of the sustainability related issues [including waste management] among small and medium-sized enterprises.⁴²⁵⁷

Indonesia has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

Thus it receives a score of +1.

Analyst: Pavel Doronin

Italy: 0

Italy has partially complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 16 March 2018, the Ministry of the Environment published guidelines on the operational management of waste repositories at specialized facilities and risk prevention thereof.⁴²⁵⁸

On 21 March 2018, the Ministry of the Environment published a circular on the waste incineration plants management.⁴²⁵⁹

Italy has taken steps to disseminate information on reducing waste generation recycling, and waste collection systems participation among general population, without particular focus on businesses.

Thus, it is awarded a score of 0.

Analyst: Andrei Sakbarov

Japan: +1

Japan has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

⁴²⁵⁶ Community and local government movement in reducing plastic waste in Indonesia. SDSN Youth 16 November 2017. Access date: 24 January 2018. <http://sdsnyouth.org/blog-posts/2017/11/23/treducing-plastic-waste-in-indonesia>

⁴²⁵⁷ Private Sector Seeks Gov't Incentives to Help Them Become Sustainable

⁴²⁵⁸ Pubblicata la circolare ministeriale "Linee guida per la gestione operativa degli stoccaggi negli impianti di gestione dei rifiuti e per la prevenzione dei rischi", Italian Ministry of Environment 21 March 2018. Access date: 29 March 2018. <http://www.minambiente.it/notizie/pubblicata-la-circolare-ministeriale-linee-guida-la-gestione-operativa-degli-stoccaggi-negli>.

⁴²⁵⁹ Pubblicata la circolare ministeriale recante chiarimenti interpretativi circa la modifica delle condizioni di esercizio degli impianti di coincenerimento dei rifiuti, Italian Ministry of Environment 21 March 2018. Access date: 29 March 2018. <http://www.minambiente.it/notizie/pubblicata-la-circolare-ministeriale-recante-chiarimenti-interpretativi-circa-la-modifica>.

On 15 September 2017, the International Cooperation Agency signed a USD76 million loan agreement with India aimed to upgrade the environment management plan at the Alang-Sosiya ship recycling yards in Gujarat.⁴²⁶⁰

As of 21 December 2017, the Tokyo University of Science (public university) and Japan Plastic Industry Federation, along with the Dow Chemical Company, would implement the study titled “Assessment of River Waste Using Unmanned Monitoring Method,” which will examine the impact of waste management solutions in the surrounding of the Edogawa River, as well as provide critical data on waste volumes passing through the river to help the communities and government improve the current state.⁴²⁶¹

Japan has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

Thus it receives a score of +1.

Analyst: Pavel Doronin

Korea: 0

Korea has partially complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 4-7 September 2017, the Ministry of Environment, in collaboration with the Korea Environmental Industry & Technology Institute, held the Global Green Hub Korea event, which was devoted to the multilateral business cooperation of environmental companies.⁴²⁶²

Korea promotes awareness on reducing waste generation, recycling and participation in waste collection activities among business enterprises but it does not relate to the general population clearly.

Thus, it receives a score of 0.

Analyst: Alexander Ignatov

Mexico: +1

Mexico has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 11 July 2017, the Ministry of Environment and Natural Resources published a call on citizens to separate litter and take active part in the reduction of waste generation and promotion of recycling. Since 8 July 2017, the separation of litter became obligatory for Mexico City.⁴²⁶³

⁴²⁶⁰ JICA loan to upgrade Alang-Sosiya ship recycling yards in Gujarat, The Economic Times 15 September 2017. Access date: 10 January 2018. <https://economictimes.indiatimes.com/industry/transportation/shipping/-/transport/jica-loan-to-upgrade-alang-sosiya-ship-recycling-yards-in-gujarat/articleshow/60701796.cms>

⁴²⁶¹ Dow heads first quantitative study to reduce plastic waste in Japan, Asia One 21 December 2017. Access date: 10 January 2018. <http://www.asiaone.com/business/dow-heads-first-quantitative-study-to-reduce-plastic-waste-in-japan>

⁴²⁶² Global Green Hub Korea 2017. Access date: 18 December 2017. URL: <http://eng.me.go.kr/eng/web/board/read.do?pagerOffset=0&maxPageItems=10&maxIndexPages=10&searchKey=&searchValue=&menuId=21&orgCd=&boardId=812750&boardMasterId=522&boardCategoryId=&decorator=>

⁴²⁶³ Conservemos un México limpio, separemos nuestros residuos, Mexican Government 11 July 2017. Access date: 23 April 2018. <https://www.gob.mx/conanp/articulos/conservemos-un-mexico-limpio-separemos-nuestros-residuos?idiom=es>

On 1 September 2017, the Ministry of Environment and Natural Resources published the list of authorized companies that can handle hazardous waste, including its collection, recycling, use, and treatment. The generators or holders of hazardous waste may consult the names, authorization number, and validity of the companies providing these services, in order to facilitate compliance with Article 42 of the General Law for the Prevention and Integral Waste Management.⁴²⁶⁴

On 8 September 2017, the National Population Council held a radio program dedicated to the importance of separation of litter. It also explained to citizens what types of waste people generate and how to separate the litter correctly.⁴²⁶⁵

On 12 September 2017, during a meeting of the Environment Executive Committee of the National Conference of Governors (Conago) in which the “Zero Waste” program was presented, Undersecretary of Environmental Promotion and Regulation Cuauhtémoc Ochoa Fernández pointed out the urgent need for municipalities to assume the integral management of their urban solid waste in a sustainable manner.⁴²⁶⁶

On 20 March 2018, the Prevention and Integral Management of Waste program was launched. The goal of the program is to promote the integral management of urban solid waste and special waste management practices in rural areas, through the financing of studies, waste collection infrastructure development, transportation and final disposal, and use of waste for energy-generation purposes.⁴²⁶⁷

Thus Mexico receives a score of +1.

Analyst: Irina Popova

Russia: +1

Russia has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 26 October 2017, the Ministry of Natural Resources and Ecology and SIBUR, a Russian petrochemical company, signed a cooperation agreement on household waste sorting and utilization. The agreement aims to promote further cooperation between governmental authorities and businesses in waste management in relation to the 2017 Year of Ecology in Russia, the nationwide program drawing public opinion on environmental issues.⁴²⁶⁸

On 28 October 2017, the Ministry of Natural Resources and Ecology issued an ordinance Law No. 1310, establishing a special commission on the production and consumption waste management. The

⁴²⁶⁴Empresas autorizadas para el manejo de residuos peligrosos, Mexican Government 1 September 2017. Access date: 23 April 2018. <https://www.gob.mx/semarnat/documentos/empresas-autorizadas-para-el-manejo-de-residuos-peligrosos>

⁴²⁶⁵En Zona Libre este sábado 09 de septiembre conoce más sobre la Nueva Norma Ambiental de separación de residuos de la Ciudad de México, Mexican Government 8 September 2017. Access date: 23 April 2018. <https://www.gob.mx/conapo/articulos/en-zona-libre-este-sabado-09-de-septiembre-conoce-mas-sobre-la-nueva-norma-ambiental-de-separacion-de-residuos-de-la-ciudad-de-mexico?idiom=es>

⁴²⁶⁶SEMARNAT asesora a municipios para la buena gestión de sus residuos, Mexican Government 12 September 2017. Access date: 23 April 2018. <https://www.gob.mx/semarnat/prensa/semarnat-asesora-a-municipios-para-la-buena-gestion-de-sus-residuos-126273?idiom=es>

⁴²⁶⁷Programa para la Prevención y Gestión Integral de Residuos, Mexican Government 20 March 2018. Access date: 23 April 2018. <https://www.gob.mx/semarnat/acciones-y-programas/programa-para-la-prevencion-y-gestion-integral-de-residuos>

⁴²⁶⁸The Ministry of natural resources and ecology has signed a cooperation agreement with SIBUR on processing of household waste. Access date: 10 January 2018. URL: <http://www.mnr.gov.ru/news/detail.php?ID=343711>

commission can monitor the development of waste processing infrastructure, enhance legal frameworks governing waste management, and promote public-private partnerships in this sphere.⁴²⁶⁹

On 12-15 December 2017, the National Congress on Natural Environment Protection was held in Moscow under the auspices of the Ministry of Natural Resources and Ecology, United Nations Development Programme and World Wildlife Fund. At the meeting, participants discussed several issues including the consolidation of environment protection activities conducted by the Russian government, business community, and environmental institutions. The congress was concluded with a resolution communiqué that focuses on the facilitation of a nationwide public-private platform to reduce ecosystem load and preserve biodiversity.⁴²⁷⁰

On 20 December 2017, the State Duma approved several amendments to the Federal Law No. 22886-7 regulating waste collection, delivery to processing facilities, and procedure of collection of ecological dues. The amendments undertake Eurasian Economic Union producers to pay ecological dues for package utilization. The fee was formerly obligatory for import products only. Under the law, individuals are given a free hand to personally deliver household waste to retail stores and other specialized areas for waste collection and processing.⁴²⁷¹

On 22 December 2017, the Ministry of Natural Resources and Ecology presented a list of objects of accumulated environmental damage of Golden Horn Bay in the Primorye Territory. In doing so, the local government plans to capture the attention of the Russian authorities and general public to the environmental issues of the Far East region.⁴²⁷²

Russia has promoted awareness on reducing waste generation, recycling and participation in waste collection activities among both the general population and business.

Thus, it receives a score of +1.

Analyst: Alexander Ignatov

Saudi Arabia: 0

Saudi Arabia has partially complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 17 October 2017, the Public Investment Fund, the biggest sovereign wealth fund of Saudi Arabia, announced its intention to create a new waste management company. The company would operate projects designed to increase landfill diversion rates and establish closer ties with private entities participating in waste-management activities.⁴²⁷³

Saudi Arabia has promoted participation in waste collection activities among businesses but no facts proving its promotion of awareness on reducing waste among general population were registered.

⁴²⁶⁹ Governmental commission on production and consumption waste management. Access date: 09 January 2018. URL: <http://government.ru/docs/29989/>

⁴²⁷⁰ National environment congress participants to discuss founding of a public-private environment-oriented platform in Russia. Access date: 10 January 2018. URL: <http://www.mnr.gov.ru/news/detail.php?ID=344075>

⁴²⁷¹ Producers to exploit retail stores to facilitate system of recyclable materials collection. Access date: 10 January 2018. URL: <http://www.mnr.gov.ru/news/detail.php?ID=344126>

⁴²⁷² The Ministry of natural resources and ecology of Russia prepares the program aimed at liquidation of the object of accumulated environmental damage in Gold Horn bay. Access date: 09 January 2018. URL: <http://www.mnr.gov.ru/news/detail.php?ID=344129>

⁴²⁷³ Saudi fund to set up new waste management company. Access date: ... URL: http://www.tradearabia.com/news/CONS_331664.html

Thus, it receives a score of 0.

Analyst: Alexander Ignatov

South Africa: +1

South Africa has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 6 December 2017, the Department of Environmental Affairs published a government notice calling on the paper and packaging, electrical and electronic, and lightning industries to prepare and submit industry waste management plans for approval. This is a regular measure to promote proper conduction of mandatory actions imposed on industrial companies regarding waste management and reduction.⁴²⁷⁴

On 8 December 2017, the Department of Environmental Affairs hosted an awareness session devoted to the issue of coastal clearance. The meeting was announced as a measure to draw public attention to the problem of maintenance of recreation zones that are to be used in ecological sustainable manner for the benefit of the people.⁴²⁷⁵

South Africa has promoted awareness on reducing waste generation, recycling and participation in waste collection activities among both the general population and business.

Thus, it receives a score of +1.

Analyst: Alexander Ignatov

Turkey: 0

Turkey has partially complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

In December 2017, the Turkish Statistical Institute announced the waste disposal and recovery facilities statistics for 2016. According to the findings, a total of 1,698 these facilities were in operation in 2016, more than twice as many as in 2015.⁴²⁷⁶

On 27 December 2017, Aklease, part of Turkey's Akbank, joined the Sustainable Energy Financing Facility, a program for sustainability implemented by the European Bank for Reconstruction and Development, as the first leasing partner to supply leased equipment for energy efficiency, waste management, and renewable energy.⁴²⁷⁷

⁴²⁷⁴ National Environmental Management: Waste Act (59/2008): Call on the Paper and Packaging Industry, Electrical and Electronic Industry and the Lighting Industry to prepare and submit industry waste management plans to the Minister for approval (GN 41303). Access date: 11 December 2017. URL: https://www.environment.gov.za/sites/default/files/gazetted_notices/nemwa59of2008_paperandpackagingindustry_electricalandelectronicindustry_gn41303.pdf

⁴²⁷⁵ DEA hosts beach clean-up as part of coastal awareness campaign. Access date: 11 December 2017. URL: https://www.environment.gov.za/mediarelease/cleanup_coastalawarenesscampaign

⁴²⁷⁶ Waste disposal and recovery facilities nearly doubled in 2016, Daily Sabah 31 December 2017. Access date: 16 January 2018. <https://www.dailysabah.com/environment/2018/01/01/waste-disposal-and-recovery-facilities-nearly-doubled-in-2016>

⁴²⁷⁷ First lessor joins EBRD's sustainability programme in Turkey, Leasing Life 27 December 2017. Access date: 16 January 2018. <https://www.verdict.co.uk/leasing-life/news/contract-news/first-lessor-joins-ebd-s-sustainability-programme-turkey/>

Turkey has promoted participation in waste collection activities among businesses but no facts proving its promotion of awareness on reducing waste among general population were discovered.

Thus, it receives a score of 0.

Analyst: Pavel Doronin

United Kingdom: +1

The United Kingdom has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 21 July 2017, the Department for Environment, Food and Rural Affairs updated the Litter Strategy for England. Under the updated version of the strategy, the UK government aims to encourage businesses to work with others to address local litter problems and ask businesses to think about designing their products and packaging in ways that will reduce litter.⁴²⁷⁸

On 2 October 2017, Environment Secretary Michael Gove introduced new reward and return schemes for drinks containers. For every bottle or can handed in for recycling, people will receive monetary payments.⁴²⁷⁹

On 9 March 2018, a range of innovative projects to tackle litter louts in local communities were awarded funding by the UK government. The first round of funding sees a number of councils, charities, businesses, and public projects awarded almost GBP125,000 to take innovative steps to tackle littering in their communities.⁴²⁸⁰

The United Kingdom has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

Thus, it receives a score of +1.

Analyst: Nikita Efremov

United States: +1

United States has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 12 July 2017, the Environmental Protection Agency (EPA) announced that Vorbeck Materials Corp. will pay a USD28,200 penalty and donate over USD46,000 in emergency response and communications equipment to a local fire department to settle alleged violations of hazardous waste regulations made at its facility in Jessup, Maryland.⁴²⁸¹

⁴²⁷⁸ Litter Strategy for England, Department for Environment, Food & Rural Affairs 21 July 2017. Access date: 4 December 2017. <https://www.gov.uk/government/publications/litter-strategy-for-england#history>

⁴²⁷⁹ Views on thought of reward and return schemes for drinks containers, Department for Environment, Food and Rural Affairs 2 October 2017. Access: 20 December 2017. <https://www.gov.uk/government/news/views-sought-on-reward-and-return-schemes-for-drinks-containers>

⁴²⁸⁰ Litter Innovation Fund: Government backs new community projects, UK Government 9 March 2018. Access date: 28 March 2018. <https://www.gov.uk/government/news/litter-innovation-fund-government-backs-new-community-projects>

⁴²⁸¹ Vorbeck Materials Corp. Resolves Hazardous Waste Violations At Jessup, Md. Facility, Donates Equipment to First Responders, EPA. Access date: 12 July 2017. <https://www.epa.gov/newsreleases/vorbeck-materials-corp-resolves-hazardous-waste-violations-jessup-md-facility-donates>

On 13 July 2017, the EPA announced an agreement with Jubilant Cadista Pharmaceuticals Inc. to resolve alleged violations of hazardous waste regulations at the company's pharmaceutical manufacturing facility in Salisbury, Maryland. The agreement addresses compliance with environmental regulations that help to protect communities and the environment from potential exposure to hazardous waste. As part of the agreement, Jubilant Cadista Pharmaceuticals Inc. will pay a USD35,000 penalty.⁴²⁸²

On 3 October 2017, the EPA finalized its clean-up plan to address contaminated soil and sediment at the Diamond Head Oil Refinery Superfund site in Kearny, New Jersey. The EPA's record of decision amends a 2009 clean-up plan to increase the effectiveness of the planned clean-up at the site. Soil and sediment at the site are contaminated with PCBs, dioxin, and volatile organic compounds resulting from decades of operation by a defunct oil recycling facility at the site. The Superfund Program is a cornerstone of the work that EPA performs for citizens and communities across the US. On 25 July 2017 Administrator Pruitt accepted recommendations from the task force established on 22 May 2017 to revitalize the program.⁴²⁸³

On 25 October 2017, the EPA announced a settlement with Macy's Retail Holdings, Inc. over violations of hazardous waste regulations. In addition to correcting the violations, Macy's will also develop a program with the capacity to train 400 retailers in Oklahoma and Texas, and conduct third-party audits at 11 of its largest facilities within Texas, Oklahoma, Louisiana, and New Mexico, among other required actions. The company will also pay a USD375,000 civil penalty within 30 days of the effective date of the settlement and must comply with all other requirements within one year.⁴²⁸⁴

As of 20 November 2017, EPA Region 10 reached a settlement with Emerald Services, Inc., a hazardous waste storage and treatment facility in Tacoma, Washington, over violations of the Resource Conservation and Recovery Act and the facility's permit. Emerald Services manages large volumes of hazardous waste, solvents, and antifreeze, and re-refines used oil at the Tacoma facility. However, the company failed to maintain adequate third-party liability insurance coverage of the facility for the past six years. As part of the settlement, Emerald Services agreed to pay a USD125,800 penalty and amend its current insurance policy to comply with its permit.⁴²⁸⁵

On 21 November 2017, the EPA honoured two Massachusetts organizations for their work in keeping food waste out of landfills and incinerators, and putting them to better use. Another 24 organizations across New England received certificates recognizing their work for reducing food waste as part of the EPA's Food Recovery Challenge. Food Waste is the single largest type of waste discarded each year in daily trash, equaling roughly 73 billion pounds of food discarded as trash each year. The Food Recovery Challenge is part of the EPA's Sustainable Materials Management Program, which seeks to reduce the environmental impact of all kinds of materials. The EPA recognizes the

⁴²⁸² EPA Works with Rhode Island Company to Reduce Risks from Hazardous Materials, EPA. Access date: 13 July 2017. <https://www.epa.gov/newsreleases/jubilant-cadista-pharmaceuticals-settles-hazardous-waste-violations-salisbury-md>

⁴²⁸³ EPA to Clean up Hazardous Waste Site in Kearny, N.J., EPA. Access date: 3 October 2017.

<https://www.epa.gov/newsreleases/epa-clean-hazardous-waste-site-kearny-nj>

⁴²⁸⁴ EPA Announces Settlement with Macy's over Hazardous Waste Violations, EPA. Access date: 25 October 2017.

<https://www.epa.gov/newsreleases/epa-announces-settlement-macys-over-hazardous-waste-violations>

⁴²⁸⁵ EPA settlement with Emerald Services, Inc. in Tacoma helps protect community from hazardous waste, EPA. Access date: 20 November 2017. <https://www.epa.gov/newsreleases/epa-settlement-emerald-services-inc-tacoma-helps-protect-community-hazardous-waste>

participants and supporters of the Food Recovery Challenge with awards in two categories: data-driven and narrative.⁴²⁸⁶

As of 27 November 2017, the EPA is working with the Army Corps of Engineers, the Government of Puerto Rico and its municipalities, as well as residents, to protect people and prevent hazardous materials from reaching landfills. The EPA is assisting the Government of Puerto Rico and its municipalities in the collection of household hazardous waste and electronic, abandoned, or “orphan” containers, which include drums, tanks, containers, and cylinders that were found floating in or near water bodies. In Puerto Rico, almost 8,000 drums, propane tanks, cylinders, and other containers were collected to this date and prevented from reaching landfills as a final destination.⁴²⁸⁷

As of 1 December 2017, the EPA is working with local governments and residents in St. Croix, St. Thomas, St. John, and Water Island, in the US Virgin Islands, to keep hazardous materials out of the environment and minimize the amount of waste going to landfills through household hazardous waste collection events. According to EPA Regional Administrator Pete Lopez, the response is “part of our continuing response to Hurricanes Irma and Maria ... we want to protect people and their families from potential dangers of hazardous items such as batteries, motor oil, old paint and pesticides.” These items “pose a threat to people and to the environment, so it’s important that they are disposed of properly. EPA’s goal is to help residents protect themselves and their community by separating potentially hazardous products from their regular trash.”⁴²⁸⁸

On 3 January 2018, the EPA released options to recycle electronics to encourage consumers to donate or recycle their used electronic goods.⁴²⁸⁹

The US has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

Thus, it receives a score of +1.

Analysts: Svetlana Shapovalova and Anastasia Kataeva

European Union: +1

European Union has fully complied with the commitment to promote awareness on reducing waste generation, recycling, and participation in waste collection activities.

On 16 October 2017, the European Commission published a new brochure on Public Procurement for a Circular Economy, a regenerative system in which resource input and waste, emission, and energy leakage are minimized by slowing, closing, and narrowing material and energy loops. The brochure provided introductory guidance and good practice on the points where public procurement can be used to support the transition to a circular economy. In addition to considering the policy framework and strategies such as strategic thinking and engaging the market, the brochure provides guidance on identifying where and how to make a purchase more circular according to the principles

⁴²⁸⁶ New England Organizations Honored Nationally by EPA for Reducing Food Waste Sent to Landfills, EPA. Access date: 21 November 2017. <https://www.epa.gov/newsreleases/new-england-organizations-honored-nationally-epa-reducing-food-waste-sent-landfills>

⁴²⁸⁷ EPA Helps Collect Hazardous Household Materials in Puerto Rico, EPA. Access date: 27 November 2017. <https://www.epa.gov/newsreleases/epa-helps-collect-hazardous-household-materials-puerto-rico>

⁴²⁸⁸ EPA Helps Collect Hazardous Household Materials in the U.S. Virgin Islands, EPA. Access date: <https://www.epa.gov/newsreleases/epa-helps-collect-hazardous-household-materials-us-virgin-islands>

⁴²⁸⁹ Give Old Electronics New Life through E-cycling this Holiday Season. Access date: 3 January 2018. <https://www.epa.gov/newsreleases/give-old-electronics-new-life-through-e-cycling-holiday-season>

of reduce, reuse, recycle, and recover. Alongside each of these sections, good practice examples are also provided, demonstrating how circular economy principles are already being implemented across Europe.⁴²⁹⁰

On 18 November 2017, the European Week for Waste Reduction started in Europe. The project is co-financed by the European Commission's LIFE+ programme and aims to encourage actions to create awareness among the general public about sustainable resource and waste management. The thematic focus of the week was "Reuse and Repair: Give it a new life!" to inspire appreciation for products and resources and add new value to old things.⁴²⁹¹ Businesses also took part.⁴²⁹²

The EU has promoted awareness on reducing waste generation, recycling, and participation in waste collection activities among both general population and businesses.

Thus, it receives a score of +1.

Analyst: Karina Khasanova

⁴²⁹⁰ Green Public Procurement, European Commission 16 October 2017. Access date: 3 December 2017. http://ec.europa.eu/environment/gpp/index_en.htm.

⁴²⁹¹ European Week for Waste Reduction 2017, REFRESH — EU research project 26 November 2017. Access date: 3 December 2017. <http://eu-refresh.org/european-week-waste-reduction-2017>.

⁴²⁹² European Week for Waste Reduction 2017, REFRESH — EU research project 26 November 2017. Access date: 3 December 2017. <http://eu-refresh.org/european-week-waste-reduction-2017>.