Global Climate Change Action as a *Jus Cogens* Norm: Some Legal Reflections on the Emerging Evidence

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Abstract. This article analyzes the possibility of environmental obligations acquiring the status of *jus cogens* (peremptory)
 norms from six perspectives, namely, domestic legislation of States, national judicial decisions, academia and international

- organizations, United Nations documents and initiatives, treaties and international State practice, and international tribunals.
- Additionally, it is argued that the economic and political interests surrounding the military and fossil fuel industries and the vast resources dedicated to them hinder the world's climate change efforts. Thus, the article presents two research questions.
- First, what are the possibilities of environmental obligations becoming peremptory norms of international law? Second, if
- these obligations currently do not meet the requirements to be recognized as *jus cogens*, what would be required for them to
- ¹⁴ obtain this status?

Keywords: Climate change, environmental State obligations, *jus cogens*, international law-making, military, fossil fuel industry

16 **1. Introduction**

Climate change is currently the largest threat to the environment and human rights.¹ Global warming produces
 environmental impacts such as adverse effects on wildlife, natural resources, and ecological processes that support

access to clean water, food, and other basic needs.² Air pollution, which is primarily generated by the burning

of fossil fuels, causes 13 deaths per minute worldwide.³ Events associated with climate change include extreme weather events, for example, the 2017 super hurricanes Irma and Maria in the Atlantic, and slow-onset events

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- 1 United Nations Environment Programme, Climate Change and Human Rights (UNEP 2015).
- 2 ibid.
- 3 United Nations, 'The Right to a Clean and Healthy Environment: 6 Things You Need to Know' (*United Nations*, 15 October 2021) https://news.un.org/en/story/2021/10/1103082 accessed 22 October 2021

like desertification in the Sahel region of Africa.⁴ In 2019, 15 extreme weather events around the world, which 21 were exacerbated by climate change, caused more than one billion USD in damage each.⁵ 22

Climate change also has significant effects on human rights. In Canada, global warming is depleting indigenous 23 peoples' access to traditional food sources, while in Colombia, more frequent droughts are worsening malnutrition 24 among indigenous children.⁶ In the United States, extreme heat is linked to adverse birth outcomes, including 25 preterm birth.⁷ Moreover, one million species worldwide are facing extinction if ambitious action is not taken to 26 deter climate change impacts.⁸ The International Panel on Climate Change suggested that a substantial increase 27 in the world's mean temperature would cause annual economic losses of up to 2 percent of global income.⁹ 28

The environmental law-making process has been characterized by ad hoc, need-based responses.¹⁰ 29 Sector-specific rules and principles have emerged in areas ranging from the atmosphere to the conservation of 30 living resources.¹¹ Multilateral environmental agreements are largely enacted due to the perceived need to take 31 conservation or protection measures.¹² Between 1857 and 2012, an estimated 747 instruments were concluded 32 in the environmental field.¹³ Soft law agreements, such as the 1972 United Nations Declaration on the Human 33 Environment (Stockholm Declaration) and the 1992 United Nations Declaration on Environment and 34 Development (Rio Declaration) have also played an important role in the development of international 35 environmental law and commonly evolve into hard law.¹⁴ Moreover, States are not the only protagonists in the 36 making of international environmental law.¹⁵ Intergovernmental and non-governmental organizations, 37 particularly think tanks, influence the shaping of international environmental norms.¹⁶ Particularly, think tanks 38 assist in balancing scientific facts and research with the economic and political interests that are ever-present in 39 international negotiations.17 40

2. Multilateral Regulation of Climate Change 41

Thus far, the international community has regulated climate change action through multilateral environmental 42 agreements and obligations established under the United Nations Framework Convention on Climate Change 43

- 4 Michai Robertson, 'Climate Change Loss and Damage Response as a Peremptory Norm of General International Law' (2018) University College London Global Governance Institute Working Paper Series 2018/7 www.ucl.ac.uk/global-governance/sites/globalgovernance/files/robertson_working_paper_final_mr_final.pdf accessed 21 October 2021.
- Samantha Gross, 'Why Are Fossil Fuels So Hard to Quit?' (Brookings Institution, June 2020) www.brookings.edu/essay/why-are-5 fossil-fuels-so-hard-to-quit/ accessed 19 October 2021.
- Human Rights Watch, 'Q&A on Fossil Fuel Subsidies' (Human Rights Watch, 7 June 2021) www.hrw.org/news/2021/06/07/qa-fossil-6 fuel-subsidies accessed 11 October 2021.
- 7 ibid.
- International Law Commission, 'Provisional Summary Record of the 3460th Meeting' 3 June 2019 A/CN.4/SR.3460 8
- Benoit Mayer, 'The Relevance of the No-Harm Principle to Climate Change Law and Politics' (2016) 19 Asia-Pacific Journal of Environmental Law https://poseidon01.ssrn.com/delivery.php?ID=05808407002001012411006512410809901106001502600206002 109089033041040124073118093026110084010085064109025109015111119074096098099105106028067067004&EXT=pdf&IN DEX=TRUE accessed 12 October 2021
- Bharat H. Desai, 'International Environmental Law-Making' (2020) 50 Environmental Policy and Law 489. Also see, Bharat H Desai, 10 "International Environmental Law-Making" (Chapter 5) in Bharat H. Desai, Ed., Our Earth Matters: Pathways to a Better Common Environmental Future (Amsterdam: IOS Press, 2021), pp.43-62.
- 11 ibid.
- 12 ibid.
- 13 ibid.
- 14 ibid.
- 15 ibid.
- 16 ibid.
- 17 ibid

(UNFCCC).¹⁸ The Convention has 197 member parties; the only non-member State is Vatican City.¹⁹ The main pillars of the UNFCCC are equity, meaning benefits for present and future generations; common but differentiated responsibility among States; needs and special circumstances of developing countries; prohibition of using climate change measures as barriers to trade; access to resources for developing countries; precautionary measures; economic development; and the pursuit of States' own environmental and development policies.²⁰ Another significant treaty regarding climate change is the Paris Agreement, which commits parties to holding the increase of average global temperature to below 2°C above pre-industrial levels and pursuing efforts to limit the temperature of 1.5°C ²¹

the temperature increase to $1.5^{\circ}C.^{21}$

Although the United Nations Human Rights Council has not yet established a clear declaration on the 52 obligations of governments regarding the human rights implications of climate change, there is evidence that 53 certain obligations do exist.²² Human rights law imposes procedural obligations on governments to gather and 54 disseminate information about the environmental impact of their activities and provide access to remedies for 55 environmental harm.²³ According to the Committee on Economic, Social, and Cultural Rights, regional courts, 56 and United Nations special rapporteurs, States also have the duty to adopt legal and institutional frameworks 57 that prevent and respond to environmental harm so as to protect the rights to life, health, and an adequate 58 standard of living.²⁴ This obligation includes the implementation of mitigation and adaptation measures and 59 international cooperation.25 60

61 **3. Towards a Jus Cogens (Peremptory) Norm?**

A peremptory norm of general international law, also called jus cogens, is a norm accepted by the international community of States as a norm from which no derogation is permitted and that can only be modified by a subsequent norm of general international law of the same character.²⁶ Peremptory norms give rise to erga omnes obligations, in other words, duties owed by legal persons to the international community as a whole.²⁷ The erga omnes concept was articulated by the International Court of Justice (ICJ) in the Barcelona Traction, Light and Power Company, Limited case of 1970, in which the Court recognized that certain obligations concern all States.²⁸

⁶⁹ Due to the recognition of the right to a healthy environment and subsequent obligations by the Inter-American ⁷⁰ Court of Human Rights (IACHR), numerous national courts, and in agreements throughout the world, it is ⁷¹ predicted that erga omnes obligations to protect the environment will arise in the near future.²⁹ Currently, some ⁷² support exists to recognize the erga omnes character of the obligations to protect and preserve the marine ⁷³ environment, to notify other States of danger or damage to the marine environment, to inform the international

- 18 Ottavio Quirico, 'Towards a Peremptory Duty to Curb Greenhouse Gas Emissions?' (2021) 44 Fordham International Law Journal https://ir.lawnet.fordham.edu/cgi/viewcontent.cgi?article=2820&context=ilj accessed 15 October 2021.
- 19 United Nations Treaty Collection, '7. United Nations Framework Convention on Climate Change' (United Nations, 2021) https://treaties.un.org/pages/ViewDetailsIII.aspx?src=TREATY&mtdsg_no=XXVII-7&chapter=27&Temp=mtdsg3&clang=_en accessed 10 October 2021.
- 20 Bharat H. Desai and Balraj K. Sidhu, 'Climate Change as a Common Concern of Humankind: Some Reflections on the International Law-Making Process' in Jordi Jaria Manzano and Susana Borràs (eds), *Research Handbook on Global Climate Constitutionalism* (Edward Elgar 2019) 11.
- 21 Quirico, Towards a Peremptory Duty, n.18.
- 22 United Nations Environment Programme, Climate Change, n.1.
- 23 ibid.
- 24 ibid.
- 25 ibid.
- 26 Vienna Convention on the Law of Treaties (adopted 23 May 1969, entered into force 27 January 1980) 1155 UNTS 331 art 53
- 27 Quirico, Towards a Peremptory Duty, n.18.
- 28 Siobhán McInerney-Lankford, Mac Darrow, and Lavanya Rajamani, *Human Rights and Climate Change: A Review of the International Legal Dimensions* (The World Bank 2011).
- 29 Nicholas A. Robinson, 'Environmental Law: Is an Obligation Erga Omnes Emerging?' (International Union for Conservation of Nature, 4 June 2018) www.iucn.org/sites/dev/files/content/documents/2018/environmental_law_is_an_obligation_erga_omnes_emerging_intera mcthradvisoryopinionjune2018.pdf accessed 17 October 2021.

shipping community of the existence of a minefield, and not to dispose of nuclear and radioactive wastes in the
 high seas.³⁰

Additionally, jus cogens norms are binding upon all members of the international community, are superior
 to other norms of international law, and serve to protect values of the international community, also called
 international public order.³¹ Some norms that the International Law Commission (ILC) has recognized as having
 a peremptory character are the prohibition of aggression, genocide, crimes against humanity, racial discrimination
 and apartheid, slavery, torture, the right of self-determination, and the basic rules of international humanitarian
 law.³²

The consequence of a norm acquiring the status of jus cogens is that existing treaties conflicting with the norm are automatically void.³³ Parties to a treaty that becomes void have the obligation to eliminate the effects of any act performed in compliance with the treaty and bring their mutual relations into conformity with the jus cogens norm.³⁴ Any State is entitled to invoke the responsibility of another State for a breach of a jus cogens norm, in accordance with the rules on the responsibility of States for internationally wrongful acts.³⁵

Evidence of the acceptance and recognition of a peremptory norm may take diverse forms, including public statements made on behalf of States, official publications, government legal opinions, diplomatic correspondence, administrative and legislative acts, decisions of national courts, treaty provisions, and resolutions adopted by international organizations or at an intergovernmental conference.³⁶ Subsidiary means for determining jus cogens norms are the decisions of international tribunals and the works of expert bodies established by the State, international organizations, and highly qualified publicists.³⁷

The UNFCCC indicates that climate change and its adverse effects are of concern to humankind, which implies that the failure to curb greenhouse gas emissions is of interest to the international community as a whole.³⁸ Moreover, the Convention underscores that States have the obligation to cooperate to reduce or prevent greenhouse gas emissions.³⁹ The ILC has also stated that there is support for acknowledging the erga omnes character of the obligations pertaining to global atmospheric degradation.⁴⁰

A peremptory international obligation could be effective in creating a framework to address global warming.⁴¹ 98 Affirming the universally non-derogable nature of the obligation to decrease greenhouse gas emissions would 99 impede the withdrawal of countries from climate change instruments, as the United States did from the Paris 100 Agreement in 2017.42 Norms related to the protection of the environment were identified in the report of a United 101 Nations special rapporteur as possible norms of jus cogens which have not been recognized as such in the ILC's 102 previous works.⁴³ Due to the importance of this issue and the catastrophic consequences of the destruction of the 103 environment, the report mentioned that it might seem obvious that environmental norms would have the status 104 of jus cogens.⁴⁴ Nevertheless, the special rapporteur also considered that there is little evidence of the required 105 acceptance and recognition of the international community that environmental norms have acquired jus cogens 106 status.45 107

- 30 McInerney-Lankford, Darrow, and Rajamani, Human Rights, n.28.
- 31 International Law Commission, 'First Report on Jus Cogens by Dire Tladi, Special Rapporteur' 8 March 2016 A/CN.4/693
- 32 ibid.
- 33 Dire D. Tladi, 'Annex' (United Nations, 2014) https://legal.un.org/ilc/reports/2014/english/annex.pdf accessed 20 October 2021.
- 34 International Law Commission, 'Peremptory Norms of General International Law (Jus Cogens)' 29 May 2019 A/CN.4/L.936
- 35 ibid.
- 36 ibid.
- 37 ibid.
- 38 Quirico, Towards a Peremptory Duty, n.18.
- 39 ibid.
- 40 ibid.
- 41 ibid.
- 42 ibid.
- 43 International Law Commission, 'Fourth Report on Peremptory Norms of General International Law (Jus Cogens) by Dire Tladi, Special Rapporteur' 31 January 2019 A/CN.4/727
- 44 ibid.
- 45 ibid.

4. Analysis of Domestic and International Evidence

The right to a healthy environment and, consequently, the obligations of States to address environmental threats 109 such as climate change meet the requirements identified by the ILC to be considered peremptory norms.⁴⁶ On 110 the one hand, the right to a healthy environment is a norm of general international law acknowledged by the 111 international community in numerous constitutions and cases resolved by judicial bodies. On the other hand, this 112 right reflects and protects values of the international community, since environmental degradation and climate 113 change in particular are a common concern of humankind. Climate change has been considered a common 114 concern for the world since the United Nations General Assembly adopted the resolution "Protection of Global 115 Climate for Present and Future Generations of Mankind in 1988."47 116

An analysis of different international actors reveals an ambiguous approach to the possibility of the right to a healthy environment becoming a peremptory norm. National legislation and judicial decisions of numerous States and academic publications generally favor the recognition of the right to a healthy environment and the establishment of corresponding government obligations. Conversely, most documents issued by the United Nations, treaties, international practice, and international tribunals do not seem to promote the acknowledgement of this right and related duties.

123 4.1. Domestic Legislation of States

Most States have promulgated national environmental legislation. The right to a clean environment has also been recognized in many regional human rights agreements and national constitutions, including the African Charter on Human and People's Rights, the Protocol of San Salvador, the Arab Charter on Human Rights, and the ASEAN Human Rights Declaration.⁴⁸ In 2005, the French Constitution was amended to include a Charter of the Environment which affords citizens the right to live in a "balanced environment, favorable to human health".⁴⁹ Other countries have instated legal mechanisms, for instance, Mexico reformed its constitution to recognize class actions which can be used to defend collective environmental rights and interests.⁵⁰

The ILC has pinpointed that the development of general principles of law is a common basis for the establishment of jus cogens.⁵¹ The creation of principles regarding environmental protection and the combat of climate change is reflected in the recognition of the right to a sustainable environment in constitutions, legislation, and court decisions around the world.⁵² More than 100 national constitutions recognize the right to a sustainable environment, while multiple national judicial bodies have ruled on the insufficiency of actions by States to reduce greenhouse gas emissions.⁵³

137 4.2. National Judicial Decisions

Thousands of cases decided in more than 50 national judicial systems have involved alleged violations of the right to a healthy environment in the last forty years.⁵⁴ The recognition and enforcement of the right to a healthy environment by judicial authorities increases the role of the public in environmental governance and encourages

- 46 International Law Commission, Peremptory Norms, n.34.
- 47 Bharat H. Desai and Balraj K. Sidhu, 'Climate Change as a Common Concern of Humankind: Some Reflections on the International Law-Making' 3.
- 48 United Nations Environment Programme, Climate Change, n.1.
- 49 McInerney-Lankford, Darrow, and Rajamani, Human Rights, n.28.
- 50 Jorge Alejandro Carrillo Bañuelos, 'Litigio Sobre Cambio Climático: Operatividad de las Acciones Colectivas en México' (*Centro de Estudios Constitucionales SCJN*, 30 June 2020) www.sitios.scjn.gob.mx/cec/blog-cec/litigio-sobre-cambio-climatico-operatividad-de-las-acciones-colectivas-en-mexico accessed 11 October 2021.
- 51 Quirico, Towards a Peremptory Duty, n.18.
- 52 ibid.
- 53 ibid.
- 54 United Nations General Assembly, 'Human Rights Obligations Relating to the Enjoyment of a Safe, Clean, Healthy and Sustainable Environment' 19 July 2018 A/73/188.

the development of environmental legislation and education.⁵⁵ Moreover, as of July of 2019, 1,023 judicial cases
 in the United States have involved climate change action, while 305 more climate change cases were identified
 in another 28 countries.⁵⁶

One such case was the 2018 ruling in Barragán vs. Colombia, in which the Colombian Supreme Court upheld the claim of 25 plaintiffs against the State and private corporations for depleting the Amazon rainforest and increasing carbon dioxide emissions.⁵⁷ In another landmark ruling, the Urgenda Climate Case, the Dutch Supreme Court found that the Netherlands has obligations to urgently and significantly reduce emissions in line with its human rights duties.⁵⁸ The Court ordered the Dutch government to cut its greenhouse gas emissions by 25 percent by the end of 2020 compared to 1990 levels.⁵⁹

4.3. View of the Scholars and International Organizations

Academics and international organizations broadly recognize the obligation of States to protect the 151 environment. For instance, the head of the Mario Molina Center, a Mexican civil society organization dedicated 152 to promoting energy and environmental public policies for sustainable development,⁶⁰ expressed his concern 153 that the need for environmental legislation would not be addressed in the COP26 global climate summit.⁶¹ He 154 emphasized that a solid legal basis is needed to establish ambitious climate goals.⁶² At a civil society forum 155 regarding COP26, a researcher from the Center for Research and Economic Teaching, a Mexican university, 156 stressed that governments can no longer declare their support for climate policies while maintaining a 157 regressive energy policy based on fossil fuels.63 158

Greenpeace also recognizes that ecosystem degradation and the decline of biodiversity threaten the rights to life, health, food, culture, water, a healthy environment, and an adequate standard of living.⁶⁴ Furthermore, the organization promotes a rights-based approach to urgent climate action in four interrelated areas: carbon-neutral economic recovery plans from Covid-19, key drivers of zoonotic diseases, measures to protect and conserve nature, and the rights of indigenous peoples and rural communities.⁶⁵

Because climate change is caused by and affects all countries and economic sectors, collaboration between State and non-State actors is crucial.⁶⁶ This cooperation can lead to the mobilization of technical knowledge, capacity-building, and the allocation of financial resources to address climate change.⁶⁷ It can also promote policy innovations, increase the use of carbon-neutral sources, decarbonize energy production, and facilitate renewable energy research and development.⁶⁸

- 58 Urgenda, 'The Urgenda Climate Case Against the Dutch Government' (*Urgenda*, 2019) www.urgenda.nl/en/themas/climate-case/ accessed 15 October 2021.
- 59 ibid.
- 60 Centro Mario Molina, 'Quiénes Somos' (Centro Mario Molina, 2021) https://centromariomolina.org/acerca-de-nosotros/quienessomos/ accessed 17 October 2021.
- 61 Ulises Juárez, 'Necesario Incluir Tema Legal en la COP26: Centro Mario Molina' (*Energía a Debate*, 24 September 2021 https://energiaadebate.com/necesario-incluir-tema-legal-en-la-cop26-centro-mario-molina/?fbclid=IwAR2lZuMPSE_0MgYezV-zQ ZIBa44zvFsSy1iEgPLHawWSxR90yr3OfPOIJ4w accessed 12 October 2021.

- 64 David R. Boyd, 'Why All Human Rights Depend on a Healthy Environment' (*Greenpeace*, 10 November 2020) www.greenpeace. org/aotearoa/story/why-all-human-rights-depend-on-a-healthy-environment/ accessed 11 October 2021.
- 65 ibid.
- 66 Volker Roeben and Smith I. Azubuike, 'Climate Change and Responsibility: Arctic States' Cooperation through the Arctic Council in Climate Change Mitigation and Adaptation Efforts' (*Arctic Yearbook*, 2020) https://arcticyearbook.com/images/yearbook/ 2020/Scholarly-Papers/21_Roeben__Azubuike.pdf accessed 14 October 2021.

67 ibid.

68 ibid.

⁵⁵ ibid.

⁵⁶ Jorge Alejandro Carrillo Bañuelos, Litigio Sobre, n.50.

⁵⁷ Quirico, Towards a Peremptory Duty, n.18.

⁶² ibid.

⁶³ ibid.

169 4.4. United Nations Initiatives

United Nations instruments such as the organization's Charter and the Universal Declaration of Human Rights 170 do not include the right to a healthy environment nor States' corresponding obligations. Moreover, in the view 171 of the ILC, although there are many treaties on the environment, none of them provide conclusive evidence of 172 non-derogability.⁶⁹ On the other hand, United Nations Sustainable Development Goal (SDG) 13 aims for urgent 173 action to combat climate change and its impacts. The SDGs, adopted by the United Nations General Assembly 174 in 2015, require States and international organizations to work toward achieving 17 objectives in critical policy 175 areas by 2030.⁷⁰ Additionally, in 2016, a United Nations special rapporteur presented a report to the Human 176 Rights Council on human rights obligations related to a safe, clean, healthy, and sustainable environment.⁷¹ 177 The special rapporteur asserted that States have obligations to protect human rights from environmental harm, 178 including climate change.72 179

Specifically, the report highlights that States have procedural and substantive obligations, as well as obligations owed to vulnerable groups.⁷³ Procedural obligations include assessing environmental impacts and making environmental information public, facilitating public participation in environmental decision-making, and providing access to remedies for harm.⁷⁴ Substantive obligations involve the adoption of legal and institutional frameworks that protect against and respond to environmental harm that interferes with the enjoyment of human rights.⁷⁵ Moreover, States have particular duties regarding groups that are most vulnerable to environmental harm, such as women, children, and indigenous peoples.⁷⁶

Also, in 2021, a Human Rights Council (HRC) resolution recognized the right to a safe, clean, healthy, and
 sustainable environment and encouraged States to protect the environment so as to comply with their human
 rights obligations.⁷⁷ The resolution, which received 43 votes in favor and four abstentions from China, India,
 Japan, and Russia, cited the efforts of more than 1,100 organizations who had advocated for the recognition and
 protection of this right.⁷⁸

The HRC organized negotiations, discussions and seminars given by experts prior to the vote and resolution on 192 the recognition of the right to a healthy environment.⁷⁹ During a seminar, an environmental activist asserted that 193 1.7 million children die worldwide from inhaling contaminated air or drinking polluted water.⁸⁰ HRC resolutions 194 are considered "political expressions" that represent the majority of its members' position on particular issues.⁸¹ 195 Their objective is to provoke debate among States, civil society, and intergovernmental organizations and establish 196 new standards or principles of conduct.⁸² Thus, although this resolution is not legally binding, it contains strong 197 political commitments and could be a catalyst for more ambitious action on environmental issues.⁸³ For example, 198 after a 2010 United Nations resolution recognized the human right to water, governments all over the world 199 added this right to their national constitutions.⁸⁴ The United Nations Special Rapporteur on Human Rights and 200

- 69 International Law Commission, Fourth Report, n.43.
- 70 ibid.
- 71 Human Rights Council, 'Report of the Special Rapporteur on the Issue of Human Rights Obligations Relating to the Enjoyment of a Safe, Clean, Healthy and Sustainable Environment' 1 February 2016 A/HRC/31/52.
- 72 ibid.
- 73 ibid.
- 74 ibid.
- 75 ibid.
- 76 ibid.
- 77 United Nations Human Rights Council, 'Human Rights Council Adopts Four Resolutions on the Right to Development, Human Rights and Indigenous Peoples, the Human Rights Implications of the COVID-19 Pandemic on Young People, and the Human Right to a Safe, Clean, Healthy and Sustainable Environment' (*Office of the High Commissioner for Human Rights*, 8 October 2021) www.ohchr.org/EN/HRBodies/HRC/Pages/NewsDetail.aspx?NewsID=27634&LangID=E accessed 15 October 2021.
- 78 United Nations, The Right, n.3.
- 79 ibid.
- 80 ibid.
- 81 ibid.
- 82 ibid.
- 83 ibid.
- 84 ibid.

Table 1
Position of States on the recognition of the right to a healthy environment

Country	Vote	Position
China	Abstained	The environment is critical and it is indispensable to achieve a harmonious relationship between people and nature. Added "ecological civilization" to Chinese constitution. The Chinese National Human Rights Action Plan includes a chapter on environmental rights. China is a leader in conservation and restoration of nature. Nevertheless, parts of the resolution are still open to definition, and there is uncertainty about whether the HRC has the mandate to enact it. ¹
Indonesia	In favor	Would like to see resolution gain wide support. The right to a healthy environment is recognized and mandated in the Indonesian legal system. ¹
Japan	Abstained	Environmental rights are not universally recognized. The HRC resolution is extremely broad and would not alter the content of international law. ¹
Mexico	In favor	Emphasized the importance of the right to a healthy environment in addressing the global environmental crisis. The right to a healthy environment is recognized in the Mexican constitution. ¹
Poland	In favor	A healthy environment impacts human rights such as life and health. ¹ Current aspects of environmental matters are protected by human rights law. Nonetheless, the right to a healthy environment has not been included in United Nations treaties, such as the Universal Declaration of Human Rights and the International Covenant on Economic, Social, and Cultural Rights.
Russia	Abstained	The initiative opposes Russia's approach on the division of labor within the United Nations. The HRC is not the place to discuss environmental matters. The right to a healthy environment does not exist in international law and its content is unclear. ¹
United Kingdom	In favor	Proud to be hosting COP26 and being a leader on climate change. Promoted a 2008 HRC resolution on human rights and climate change. Supports the United Nations Special Rapporteur on Human Rights and Environment. Concerned about disproportionate climate change impacts on vulnerable populations. ¹ However, the right to a healthy environment has not been recognized in a global treaty and its content is unclear for individuals and States.

Environment cited Mexico, which, after including the right to water in its constitution, extended safe drinking 201 water to over 1,000 rural communities.85 202

Table 1 describes the positions of some States on the recognition of the right to a healthy environment prior 203 to voting on this resolution.

4.4.1. The United Nations Special Rapporteur on Human Rights and Environment

The Human Rights Council established the mandate for the United Nations Special Rapporteur on Human 206 Rights and Environment in 2012.⁸⁶ The purpose of this mandate is to identify obstacles to the recognition of the human right to a healthy environment and corresponding obligations, promote human rights in environmental 208 policymaking, conduct country visits, and respond to human rights violations.87

4.5. Treaties and International State Practice 210

178 States have acknowledged the right to a healthy environment with corresponding obligations, while 36 211 other nations have signed non-binding international declarations that incorporate this right.⁸⁸ The recognition 212 of this right has led to stronger environmental laws and higher levels of public participation in environmental 213 decision-making.⁸⁹ Nevertheless, there is no evidence that States acknowledge the non-derogable character of 214 environmental duties. 215

Due to heterogeneous political and economic objectives within the international community and the absence 216 of a supranational agency to enforce States' compliance of environmental treaties such as the Paris Agreement, 217

85 ibid.

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- ibid. 87
- 88 ibid.
- 89 Boyd, Why All Human Rights, n.64.

⁸⁶ Office of the High Commissioner for Human Rights, 'Special Rapporteur on Human Rights and the Environment' (OHCHR, 2021) www.ohchr.org/en/Issues/environment/SRenvironment/Pages/SRenvironmentIndex.aspx accessed 25 October 2021.

a regional approach to climate change action could be more effective.⁹⁰ Geographic proximity, a comparable
 political and economic system, common goals, and cultural closeness can benefit the formation of regional
 coalitions for climate action.⁹¹ For instance, the possibility of creating a coalition of Artic States to address
 climate change in the region has been analyzed.⁹²

Another course of action that could strengthen State obligations toward the environment is the recognition 222 of the no-harm principle. Thus far, the climate change regime has been built on the principle of common but 223 differentiated responsibilities.93 For instance, the Paris Agreement states that its adoption does not provide grounds 224 for liability or compensation.⁹⁴ This has led to spontaneous and voluntary commitments toward environmental 225 protection rather than a legal regime based on rights and obligations.⁹⁵ Crucial climate action could be more 226 effectively promoted through the no-harm rule, which determines that States have the responsibility to ensure that 227 activities within their jurisdiction or control do not cause damage to the environment of other States or to areas 228 beyond their national jurisdiction.⁹⁶ This principle, considered the cornerstone of international environmental 229 law, was affirmed by an arbitral tribunal in the Trail Smelter case of 1941 and reaffirmed by Principle 21 of the 230 1972 Stockholm Declaration on Human Environment.97 231

232 4.6. View of International Tribunals

The ICJ has ruled on few cases regarding the environment. For example, in the Pulp Mills on the River 233 Uruguay case, the ICJ made several references to the principle of sustainable development and recognized that it 234 is a requirement under general international law to conduct an environmental impact assessment when a proposed 235 industrial activity poses a risk to the environment.98 However, the ICJ has not expressly referred to peremptory 236 norms related to the human right to a healthy environment and subsequent obligations. Contrastingly, in an 237 advisory opinion regarding the relationship between human rights and the environment, the IACHR recognized 238 that a healthy environment is a fundamental right necessary for the existence of humanity.⁹⁹ Additionally, the 239 IACHR highlighted that this right entails obligations for States, namely, to guarantee a healthy living environment 240 and basic public services to all people and to promote the protection, preservation, and improvement of the 241 environment.100 242

In 2011, Palau and the Marshall Islands presented an initiative at the United Nations regarding the possibility 243 that the ICJ issue an advisory opinion on the responsibilities of States to ensure that activities within their 244 jurisdiction do not cause environmental damage to other States.¹⁰¹ An academic present at the United Nations 245 meeting stated his opinion that such a request could be unhelpful if the ICJ refused to provide an advisory opinion 246 on the matter or issued an opinion that failed to assist the development of international environmental law.¹⁰² 247 On occasion, the ICJ has been hesitant to clarify the nature of important international rules in the face of sharp 248 political division within the international community.¹⁰³ For example, in another advisory opinion, the ICJ ruled 249 that it could not conclude whether the threat or use of nuclear weapons would be lawful or unlawful in a case of 250 self-defense.104 251

- 90 Roeben and Azubuike, Climate Change, n.66.
- 91 ibid.
- 92 ibid.
- 93 Mayer, The Relevance, n.9.
- 94 ibid.
- 95 ibid.
- 96 ibid.
- 97 ibid.
- 98 Pulp Mills on the River Uruguay (Argentina v. Uruguay) Judgement, I.C.J. Reports 2010.
- 99 Environment and Human Rights, Advisory Opinion OC-23/17, Inter-American Court of Human Rights (15 November 2017)
- 100 ibid.
- 101 United Kingdom Supreme Court, 'Climate Change & Rule of Law: Lecture by Philippe Sands QC Chaired by Lord Carnwath, UKSC, 17.09.15' (YouTube, 18 September 2015) www.youtube.com/watch?v=eef1tK8mtEI accessed 14 October 2021.
- 102 ibid.
- 103 ibid.
- 104 ibid.



Fig. 1. Possibility of the right to a healthy environment and subsequent obligations becoming a jus cogens norm.

More recently, Vanuatu and some non-governmental organizations have revived the promotion of an ICJ 252 advisory opinion to determine States' climate change obligations.¹⁰⁵ Vanuatu and other low-lying island nations 253 are facing rising sea levels and more frequent storms which threaten their existence.¹⁰⁶ A community in Fiji was 254 the first in the world to have to be relocated due to rising sea levels, coastal erosion, and increased intensity of 255 storms.¹⁰⁷ The village was moved three kilometers inland, forcing residents to separate from the ocean that has 256 sustained their culture and livelihoods for generations.¹⁰⁸ An advisory opinion by the ICJ could reinforce the nexus 257 between climate change and human rights in international law and clarify the obligations of States regarding 258 the environment and climate action.¹⁰⁹ Additionally, an advisory opinion would influence other international and 259 domestic courts on the relevance of this issue and empower environmental activism.¹¹⁰ 260

Figure 1 demonstrates the previously explained positions of various international actors regarding the feasibility of the right to a healthy environment becoming a jus cogens norm.

5. Major Contributions of Fossil Fuel and Military Industries to Climate Change

Scientific studies indicate that commitments made by States to reduce emissions are insufficient to effectively address climate change.¹¹¹ For instance, most experts estimate that countries' pledges within the Paris Agreement

- 105 Nataša Nedeski, Tom Sparks, and Gleider Hernández, 'Judging Climate Change Obligations: Can the World Court Rise to the Occasion? Part II: What role for international adjudication?' (Völkerrechtsblog, 30 April 2020) https://voelkerrechtsblog.org/judging-climatechange-obligations-can-the-world-court-raise-the-occasion-2/ accessed 21 October 2021.
- 106 Melanie Burton, 'Vanuatu to Push International Court for Climate Change Opinion' (*Reuters*, 25 September 2021) www.reuters.com/world/asia-pacific/vanuatu-push-international-court-climate-change-opinion-2021-09-25/ accessed 19 October 2021.
- 107 United Nations, The Right, n3.
- 108 ibid.
- 109 Daniil Ukhorskiy, 'What's Next in Climate Litigation: The World's Youth for Climate Justice Campaign for an Advisory Opinion of the International Court of Justice '(Oxford Human Rights Hub, 26 May 2021) https://ohrh.law.ox.ac.uk/whats-next-in-climatelitigation-the-worlds-youth-for-climate-justice-campaign-for-an-advisory-opinion-of-the-international-court-of-justice/ accessed 14 October 2021.
- 110 ibid.

¹¹¹ McInerney-Lankford, Darrow, and Rajamani, Human Rights, n.28.

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will result in a 2.7 to 2.9°C rise in temperature by 2100.¹¹² Collectively, countries would have to increase
their commitments threefold to maintain temperature rise below 2°C and fivefold to keep it under 1.5°C.¹¹³
Furthermore, the commitments set forth in the Paris Agreement have been inadequately implemented, meaning
that most countries are not on track to meet its objectives.¹¹⁴ China, the world's largest carbon emitter, vowed to
achieve carbon neutrality by 2060 and reduce coal consumption.¹¹⁵ Nonetheless, the country continues to build
and finance new coal-fired power plants both domestically and abroad.¹¹⁶

The level of environmental devastation that will have to occur for countries to transform their loose promises 272 into determined action is still unknown. In comparison, the peremptory character of the prohibition of aggression 273 was not acknowledged by the ICJ until the Military and Paramilitary Activities in and against Nicaragua case of 274 1984.¹¹⁷ The Court affirmed that this prohibition is frequently referred to in statements by State representatives 275 as a fundamental principle of customary international law.¹¹⁸ Additionally, the acceptance and recognition of the 276 non-derogability of the prohibition of aggression was established in a General Assembly resolution which defined 277 aggression and was adopted by consensus.¹¹⁹ Several States also explicitly identified the prohibition of aggression 278 as an example of jus cogens at the Vienna Conference of 1968, in the Security Council, and in numerous national 279 court decisions.¹²⁰ The development of the prohibition of aggression and its eventual recognition by the ICJ as a 280 jus cogens norm occurred decades after two catastrophic world wars and countless other military conflicts. 281

On the other hand, the peremptory character of the prohibition of genocide arose after the ICJ's 1951 advisory 282 opinion on the Reservations to the Convention on the Prevention and Punishment of the Crime of Genocide.¹²¹ 283 In this advisory opinion, the Court did not expressly recognize the jus cogens character of the prohibition of 284 genocide; however, the language used by the tribunal to determine the illegality of genocide reflects the nature of 285 peremptory norms.¹²² It was not until 2006 that the ICJ confirmed the jus cogens character of this prohibition in 286 the Armed Activities on the Territory of the Congo case.¹²³ This recognition occurred years after the genocides 287 of the Holocaust and in Armenia, Bosnia, Rwanda, among other countries, which claimed the lives of tens of 288 millions of people. 289

Some concrete actions that would stem temperature rise include a price on carbon, which would charge emitters per every ton of carbon dioxide, and cutting subsidies for the fossil fuel industry.¹²⁴ These two measures could cut emissions by as much as 50 percent worldwide.¹²⁵ Factors that impede countries from implementing such policies include political challenges, for example, former United States president Donald Trump's denial of the science of climate change and the country's temporary withdrawal from the Paris Agreement.¹²⁶ Other powerful economic interests, such as the defense and fossil fuel industries, anchor governments' reluctance to implement critical climate policies.

In 2020, worldwide spending on the military, one of the primary climate change contributors, was 1.98 trillion USD.¹²⁷ The United States' military expenditure constituted 39 percent, or 778 billion USD, of this global

113 Justin Worland, 'The U.S. Isn't the Only Major Country Not Meeting Its Climate Goals' (*Time*, 27 November 2018) https://time.com/5463519/climate-change-united-nations-report/ accessed 12 October 2021.

- 114 McInerney-Lankford, Darrow, and Rajamani, Human Rights, n.28.
- 115 Lindsay Maizland, Global Climate Agreements, n.112.
- 116 ibid.

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- 117 International Law Commission, Fourth Report, n.43.
- 118 ibid.
- 119 ibid.
- 120 ibid.
- 121 ibid.
- 122 ibid.
- 123 ibid.
- 124 Justin Worland, The U.S, n.113.
- 125 ibid. 126 ibid.
- 127 M. Szmigiera, 'Countries with the Highest Military Spending 2020' (*Statista*, 7 May 2021) www.statista.com/statistics/262742/ countries-with-the-highest-military-spending/ accessed 16 October 2021.

¹¹² Lindsay Maizland 'Global Climate Agreements: Successes and Failures' (*Council on Foreign Relations*, 23 September 2021) www.cfr.org/backgrounder/paris-global-climate-change-agreements accessed 23 October 2021.

amount, the equivalent of 3.4 percent of the country's gross domestic product (GDP).¹²⁸ Other countries, such as
 Saudi Arabia, Israel, and Russia, consumed higher percentages of their GDPs on the defense industry in 2020.¹²⁹
 China amounted to a distant second place regarding its military expenditure with 252 billion USD.¹³⁰ The United
 States Congressional Budget Office estimates that the amount the United States will spend on the military will
 rise to 915 billion USD by 2031.¹³¹ Sales by the 25 largest arms producing companies reached 361 billion USD
 in 2019, an increase of 8.5 percent compared to 2018.¹³²

Recent studies have concluded that the United States military is the largest institutional consumer of 305 hydrocarbons in the world, purchasing more fuels and polluting more than most medium-sized countries.¹³³ If 306 the American defense industry were a country, its fuel usage alone would make it the 47th largest emitter of 307 greenhouse gases in the world.¹³⁴ Moreover, the Department of Defense is the United States' largest 308 governmental entity and is responsible for 77 percent of the federal government's energy consumption.¹³⁵ In 309 2020, the United States claimed that its armed forces were attempting to reduce their carbon footprint by 310 introducing new supply chains with green initiatives and using more renewable energy at bases; however, no 311 specific greenhouse gas reduction targets have been presented within the government's policies.¹³⁶ 312

Since the 1990s, the Pentagon has recognized climate change as a concern for the United States defense industry 313 and national security.¹³⁷ In a 2019 report published by the Department of Defense, most Air Force, Army, and 314 Navy installations were identified as vulnerable to current and future climate change effects such as recurrent 315 flooding, drought, desertification, and wildfires.¹³⁸ Additionally, the Department has developed programs to invest 316 in research to improve the entity's understanding of environmental risks to military installations and enhance 317 the resilience of its infrastructure.¹³⁹ The report shows that the Department is including climate resilience as 318 part of its planning and decision-making processes, but has not set forth a specific set of actions.¹⁴⁰ Also, the 319 Department's efforts appear to be solely focused on adaptation efforts to reduce the vulnerability of installations 320 rather than decreasing the organism's greenhouse gas emissions and other environmental impacts. 321

Although countries' military sectors report that the main contributors to greenhouse gas emissions are energy use at military bases and fuel consumed in aircraft, vessels, and vehicles, independent research has revealed that military equipment procurement and other supply chains account for the majority of military emissions.¹⁴¹ The defense industry relies on a global network of planes, trucks, and ships to supply its operations with bombs, fuels, and humanitarian aid.¹⁴² The Pentagon budget usually equals more than half of the United States' yearly discretionary spending.¹⁴³ Contrarily, other interrelated threats that undermine national security go underfunded,

- 128 ibid.
- 129 ibid.
- 130 ibid.
- 131 ibid.
- 132 Linsey Cottrell and Eoghan Darbyshire, 'The Military's Contribution to Climate Change' (*Conflict and Environment Observatory*, 16 June 2021) https://ceobs.org/the-militarys-contribution-to-climate-change/ accessed 13 October 2021.

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- 133 Benjamin Neimark, Oliver Belcher, and Patrick Bigger, 'US Military Is a Bigger Polluter Than as Many as 140 Countries Shrinking this War Machine Is a Must' (*The Conversation*, 24 June 2019) https://theconversation.com/amp/us-military-is-a-bigger-polluter-thanas-many-as-140-countries-shrinking-this-war-machine-is-a-must-119269 accessed 10 October 2021.
- 134 ibid.
- 135 Louise van Shaik and others, 'Ready for Take-off? Military Responses to Climate Change' (*Planetary Security Initiative*, March 2020) www.planetarysecurityinitiative.org/sites/default/files/2020-03/PSI_Ready_for_takeoff.pdf accessed 17 October 2021.

138 Office of the Under Secretary of Defense for Acquisition and Sustainment, 'Report on Effects of a Changing Climate to the Department of Defense' (*Department of Defense*, January 2019) https://media.defense.gov/2019/Jan/29/2002084200/-1/-1/1/CLIMATE-CHANGE-REPORT-2019.PDF accessed 8 October 2021.

- 141 Linsey Cottrell and Eoghan Darbyshire, The Military's Contribution, n.132.
- 142 Neimark, Belcher, and Bigger, US Military, n.133.
- 143 Elliot Negin, 'It's Time to Rein in Inflated Military Budgets' (*Scientific American*, 14 September 2020) www.scientificamerican.com/article/its-time-to-rein-in-flated-military-budgets/ accessed 9 October 2021.

¹³⁶ ibid.

¹³⁷ ibid.

¹³⁹ ibid.

¹⁴⁰ ibid.

such as the current public health contingency and the climate and environmental crises.¹⁴⁴ The Pentagon has also 328 been criticized due to gross mismanagement, including dysfunctional internal controls, lax congressional and 329 executive oversight, and overpriced, botched projects, which have enable it to waste tens of billions of dollars 330 annually.¹⁴⁵ For instance, in the first decade of the 21st century, the Pentagon cancelled a dozen inadequately 331 planned and ineffective weapons programs that cost taxpayers 46 billion USD.¹⁴⁶ These abandoned initiatives 332 cost more than the federal government spent on the Environmental Protection Agency between 2015 and 2020.147 333

Because military technology companies are not required to report on their greenhouse gas emissions, there are considerable gaps in the information regarding the environmental impact of the military sector.¹⁴⁸ However, 335 some corporations do disclose their emissions and other environmental data as part of their corporate social 336 responsibility reports.¹⁴⁹ In 2018, Lockheed Martin Corporation sold 47.2 billion USD in arms and reported emissions of 33 million tons of carbon dioxide equivalent (CO2e), while Boeing earned 29.1 billion USD in arms sales and emitted 2.5 million tons of CO2e.150

Further, only some countries have greenhouse gas emission reduction targets for their defense sectors.¹⁵¹ It 340 appears that nations reluctant to adjust their military industries to the growing effects of climate change fail to realize the impact of global warming on their military capabilities.¹⁵² Sea-level rise can endanger military 342 infrastructure and increasing climate catastrophes will require a more frequent use of military resources.¹⁵³ 343 Between 2012 and 2018, the United States spent 195 billion USD in disaster relief assistance, which is provided by the armed forces at the request of the country's Federal Emergency Management Agency.¹⁵⁴ 345

By contrast, United States president Joe Biden proposed spending 14 billion USD on climate change initiatives 346 in 2022.155 Thus, the United States' military expenditure is 55 times larger than what the president plans to invest 347 on climate action, which would still have to be approved by a divisive Congress. Significant reductions in the 348 Pentagon's budget and decreasing its capacity to wage war would cause an enormous drop in demand from 349 the biggest consumer of fuels in the world.¹⁵⁶ Confronting the United States military's carbon footprint would 350 also have a substantial effect on battling global warming.¹⁵⁷ Unfortunately, the American defense industry's 351 dependence on fossil fuels is unlikely to change.¹⁵⁸ The life-cycles of existing military aircraft and vessels are 352 locking them into hydrocarbons for years.¹⁵⁹ 353

Considering that fossil fuels accounted for 89 percent of greenhouse gas emissions in 2018, ¹⁶⁰ scientists 354 warn that 60 percent of oil and gas reserves and 90 percent of coal must remain in the ground to keep global 355 warming below 1.5°C.¹⁶¹ This would require fossil fuel production to have peaked in 2020 and be on a steady 356 decline of 3 percent every year until 2050.¹⁶² An alliance initiated by Costa Rica and Denmark to promote the 357

144 ibid.

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- 145 ibid.
- 146 ibid.
- 147 ibid
- Linsey Cottrell and Eoghan Darbyshire, The Military's Contribution, n.132. 148
- 149 ibid.
- 150 ibid.
- Van Shaik and others, Ready for Take-off? n.135. 151
- 152 ibid.
- 153 ibid.
- 154 ibid.
- Reuters, Timothy Gardner, and Valerie Volcovici, 'Biden Budget's \$14 Bln Hike for Climate Includes Big Boosts for EPA, Science' 155 (Reuters, 9 April 2021) www.reuters.com/world/us/biden-budgets-14-bln-hike-climate-includes-big-boosts-epa-science-2021-04-09/ accessed 14 October 2021.
- 156 Neimark, Belcher, and Bigger, US Military, n.133.
- Lancaster University, 'U.S. Military Consumes More Hydrocarbons Than Most Countries Massive Hidden Impact on Climate' 157 (ScienceDaily, 20 June 2019) www.sciencedaily.com/releases/2019/06/190620100005.htm accessed 12 October 2021.
- ibid. 158
- 159 ibid.
- Human Rights Watch, Q&A, n.6. 160
- 161 Victoria Gill, 'Climate Change: Fossil Fuels Must Stay Underground, Scientists Say' (BBC News, 9 September 2021) www.bbc.com/news/science-environment-58494391 accessed 15 October 2021.
- 162 ibid.

phase out of fossil-fuel extraction will ask other States to stop issuing oil, gas, and carbon exploration permits.¹⁶³ 358 Unfortunately, most countries are far from shrinking their fossil fuel industries. According to the International 359 Monetary Fund, this industry was subsidized by 5.9 trillion USD in 2020, the equivalent of 11 million USD 360 every minute.¹⁶⁴ The sector also benefits from lax environmental regulations and inadequate accountability for 361 environmental harm.¹⁶⁵ Setting fuel prices that represent the true cost of fossil fuels would reduce global carbon 362 dioxide emissions by over 33 percent and prevent one million deaths a year due to polluted air.¹⁶⁶ Proper pricing 363 would make electric cars less expensive and motivate electricity generators to use renewable energy instead of 364 coal.167 365

In 2009, the G7 and G20 committed to phase out "inefficient" fossil fuel subsidies; nevertheless, neither group has made much progress.¹⁶⁸ Countries justify the delay in part with a lack of definition for what constitutes an inefficient subsidy.¹⁶⁹ As of 2019, the G20 governments had achieved a mere nine percent reduction in fossil fuels subsidies, while seven members, including Australia, Canada, China, and France, increased their support for the industry.¹⁷⁰

One factor that hampers climate action is the difficulty of transforming the multi-trillion-dollar fossil fuel 371 industry that has been at the center of the economy and people's lives since the 19th century.¹⁷¹ Furthermore, 372 reducing humanity's reliance on fossil fuels requires large-scale investments that would provide uncertain, long-373 term benefits.¹⁷² Politicians tend to focus on policies with immediate, tangible advantages.¹⁷³ To address climate 374 change, politicians would also need to collaborate with other political leaders, businesses, and civil society, all 375 of whom have diverse perspectives on the urgency of this issue and how to resolve it.¹⁷⁴ Moreover, politicians are 376 lobbied by fossil fuel corporations, some of which are among the wealthiest companies in the world.¹⁷⁵ Plentiful 377 and inexpensive fossil fuels, along with advanced technology to develop them, also make transitioning away 378 from oil, gas, and coal more difficult.¹⁷⁶ 379

6. Conclusion

There appears to be insufficient evidence of the required acceptance and recognition by States of the nonderogable character of environmental obligations to be considered jus cogens norms. However, the report of a United Nations special rapporteur indicated that there is certain support for the acknowledgment of the erga omnes character of obligations regarding global atmospheric degradation. Moreover, the special rapporteur's publications identified norms related to the protection of the environment as possible norms of jus cogens that have not previously been recognized by the ILC.

Thus, greater ambition among States to recognize their obligations toward the environment in light of the climate crisis would be necessary for environmental norms to reach the status of jus cogens. Additionally, legal activism at the local and international levels could be a useful tool to unify the international community's

163 ibid.

- 164 Damian Carrington, 'Fossil Fuel Industry Gets Subsidies of \$11m a Minute, IMF Finds' (*The Guardian*, 6 October 2021) www.theguardian.com/environment/2021/oet/06/fossil-fuel-industry-subsidies-of-11m-dollars-a-minute-imf-finds accessed 15 October 2021.
- 165 Human Rights Watch, Q&A, n.6.
- 166 Damian Carrington, Fossil Fuel Industry, n.164.
- 167 ibid.
- 168 Human Rights Watch, Q&A, n.6.
- 169 ibid.
- 170 ibid.
- 171 Samantha Gross, Why Are Fossil Fuels, n.5.
- 172 ibid.
- 173 ibid.
- 174 ibid.
- 175 M. Szmigiera, 'Top Companies in the World by Revenue 2021' (*Statista*, 31 August 2021) www.statista.com/statistics/263265/topcompanies-in-the-world-by-revenue/ accessed 22 October 2021.
- 176 Samantha Gross, Why Are Fossil Fuels, n.5.

consent that environmental protection is a crucial and universal value. In particular, States should promote the 300 classification of environmental and climate change obligations as jus cogens norms. The peremptory character 391 of such obligations should also be recognized in future international agreements. At the national level, lawyers 392 involved with environmental and climate change cases could adopt an argument in favor the jus cogens status 393 of environmental obligations. For instance, lawyers from around the world have signed the "World Lawyers' 394 Pledge on Climate Action."¹⁷⁷ This commits signatories to take personal and institutional responsibility within 395 their respective fields of expertise to promote necessary changes to address the climate emergency.¹⁷⁸ The pledge 306 inspires lawyers not only to ask what activists, non-governmental organizations, or other stakeholders can do to 397 combat climate change, but also how lawyers themselves can internalize their climate responsibility.¹⁷⁹ Developed 398 nations could also consider conditioning their foreign aid to taking ambitious action against climate change. 399

Additionally, political and economic interests and the vast percentage of national budgets spent on the fossil fuel and defense sectors significantly obstruct critical climate action. Countries' commitments within the Paris Agreement are incompatible with subsidies that benefit the oil, gas, and coal industries. Moreover, the United States military, which is the largest institutional consumer of fuels, has not determined emission reduction goals. Rather, its environmental policies are aimed exclusively at decreasing the vulnerability of its installations to the effects of climate change. The lack of a comprehensive climate strategy not only delays the reduction of the sector's climate impact, but also negatively affects the military industry's capabilities and resources.

People across the world are already witnessing the disastrous consequences of climate change, especially in developing nations whose contributions to this global phenomenon are dwarfed by the United States and China's greenhouse gas emissions. Combating climate change and protecting the environment is a common concern of humankind, as demonstrated in this paper. As such, the international community, including countries, businesses, and civil society, must take steps to gradually eliminate fossil fuel subsidies and downscale the military industry's carbon footprint. Hopefully, countries will show more ambition to address climate change before its devastating effects equal those of the two world wars.

179 ibid.

¹⁷⁷ Saskia Stucki and others, 'World Lawyers' Pledge on Climate Action' (2021) 51 Environmental Policy and Law 371.

¹⁷⁸ ibid.