PREFACE

The Commission on Human Rights of the Philippines (CHRP) is an independent body established under our constitution, with the general mandate to investigate allegations of human rights violations against our people. It was created under the banner of “Never Again!”, in the aftermath of a “peaceful revolution” waged by our people more than thirty years ago, which resulted in the dramatic ouster of Ferdinand Marcos, under whose rule thousands of Filipinos’ human rights were trampled upon.

In 2015, our Commission was petitioned to conduct an inquiry on the impact of climate change on the human rights of the Filipino people and the role therein of the so-called “carbon majors.” The claim was that climate change was adversely impacting human rights and the top oil producers of the world were contributing, and knowingly continue to contribute, to this phenomenon.

Previous to the filing of this Petition before our Commission, different climate-related cases had been brought, as still more are being brought, by various parties before regular courts in many jurisdictions around the world: private citizens are suing governments\(^2\) and carbon producers,\(^3\) governments are suing carbon producers,\(^4\) shareholders are suing their own carbon-producing corporations,\(^5\) and so on.

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3 See for instance Lliuya v. RWE, Case No. 2 O 285/15 Essen Regional Court (filed 2015); and Native Village of Kivalina v. ExxonMobil Corp., Docket No. 4:08-cv-01138 (filed 2008).


5 Cf. Abrahams v. Commonwealth Bank of Australia, where shareholders of the Commonwealth Bank of Australia (CBA) sued the bank, alleging that it violated the Corporations Act of 2001 with the issuance of its 2016 annual report, which failed to disclose climate change-related business risks. Before the Federal Court of Australia could issue a decision, the suit was withdrawn after the bank released a 2017 annual report that acknowledged the risk of climate change and pledged to undertake climate change scenario analysis to estimate the risks to CBA’s business. (source: http://climatecasechart.com/non-us-case/abrahams-v-commonwealth-bank-australia/ last accessed on 04 December 2010)
Cases before courts have been filed under different legal theories of responsibility or liability, such as those involving tort—a civil wrong consisting of a breach of duty resulting to an injury.

Many of these court cases are still undergoing trial or are on appeal. And all these efforts have so far failed to establish judicial consensus on the responsibility of parties in the context of climate change.

Amidst all the climate-related suits, governments have also been seeking to come into an agreement to avert irreversible global warming, as exemplified by the Conference of Parties (CoP) held every year, which, as many of us know, has not been progressing as effectively as many have been hoping for.

Thus, attempts have been made to explore non-judicial mechanisms for addressing this concern. One such effort is by framing climate change as a human rights issue and filing a case on that basis before a human rights institution.

The Inuit people of North America first attempted to establish a nexus between climate change and human rights in 2005, in an action before the Inter-American Commission on Human Rights,\(^6\) a mechanism under the Organization of American States. The Inter-American Human Rights Commission, however, refused to consider their case, holding that the information provided did not enable the Commission to determine whether the facts alleged characterized a violation of rights protected under the American Declaration.\(^7\)

This Petition filed before the CHRP was the second attempt to frame climate change as a human rights issue, and the first of such kind to be accepted by a National Human Rights Institution (NHRI) for investigation.

\(^6\) Petition to the Inter-American Commission on Human Rights Seeking Relief from Violations Resulting from Global Warming Caused by Acts and Omissions of the United States, filed in December 2005.

\(^7\) Resolution of Petition, No. P-1413-05.
The choice of the Philippines as a venue for the filing of a climate petition was made significant by the fact that it was the immediate past Chair of the Climate Vulnerable Forum at the time of filing.

The Philippines is visited by around twenty typhoons every year. In 2013, it had the misfortune of being battered by one of the strongest typhoons in recorded history, Typhoon Haiyan (local: Yolanda), which caused the death of at least six thousand people within just a few hours from landfall. To date, we have yet to fully recover from its devastating impacts, even as we continue to suffer from the onslaught of other extreme weather events.

Aside from presenting climate change as a human rights case, the Petition highlighted a novel assertion, which was that private business enterprises, not just States, have the obligation to respect and uphold human rights, as advocated under the United Nations Guiding Principles on Business and Human Rights (UNGP). The Petition prayed that the “carbon majors” be held responsible for their contribution to climate change, which, as alleged, was negatively impacting the human rights of the Filipino people.

When this Petition was filed before us, there was truly no established legal precedent - as there still is none to date - to help us navigate the case. Our Commission lacked, as well, the financial and human resources necessary to handle an undertaking of such magnitude. Indeed, following the refusal of the Inter-American Commission on Human Rights to hear the case of the Inuit ten years earlier, nobody would have questioned the CHRCP had it refused to take cognizance of the case.

Some of those who were impleaded in the Petition - the big privately-owned oil companies, or the so-called “carbon majors” - asked our Commission to dismiss the Petition, arguing that we were not a court of law, but just a human rights institution. They contended that we had no jurisdiction to conduct hearings involving allegations of liability. Or that, even if we had the jurisdiction to conduct such hearings, we had no jurisdiction to consider the

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subject matter of climate change, which they thought to be not within the realm of civil and political rights. They strongly argued that the Philippine constitution only allowed our Commission to investigate cases involving civil and political rights.

We explained that all human rights are inter-related, inter-dependent, and indivisible; that one cannot consider civil and political rights separately from economic, social, and cultural rights. We pointed out that such was humanity’s evolving understanding of, and consciousness about, human rights.

Many of the respondent oil companies also raised the issue of territoriality - they questioned the power of our Commission to inquire into their activities, since they did not operate within the territory of the Philippines.

Stripped of legal niceties, the contention was that our Commission, or, indeed, the Philippine State, in general, may only inquire into the conduct of corporate entities operating within Philippine territory, even if the corporations’ operations outside our territory were negatively impacting the rights and lives of our people.

We cannot accept such a proposition.

The CHRP is mandated by the Philippine Constitution with the duty to investigate and inquire into allegations of human rights violations suffered by our people.⁹

Our Commission decides on how it must perform its constitutional duty. And the performance of this duty is neither constrained by nor anchored on the principle of territoriality alone.

The challenge to NHRIIs is to test boundaries and create new paths; to be bold and creative, instead of timid and docile; to be more idealistic or less pragmatic; to promote soft laws into becoming hard laws; to see beyond technicalities and establish guiding principles that

⁹ 1987 Philippine Constitution, Article XIII, Section 18, Paragraphs 1 and 3.
can later become binding treaties; in sum, to set the bar of human rights protection to higher standards.

Even if our Commission were not invested with compulsory processes or powers of enforcement - especially so in regard to parties not doing business in the Philippines - we can proceed with any inquiry we deem appropriate in relation to our mandate, regardless of who the implicated parties might be or where they may be domiciled.

Thus, in 2015, during the CoP 21 in Paris in December, we announced that we were giving due course to the Petition.

Having agreed to admit the Petition, we determined that our process would be dialogical, rather than adversarial. And, recognizing the transboundary character of climate change, we likewise decided that the dialogue we would be pursuing would be global.

Proceeding from the global and dialogical process which we sought to promote, our Commission accepted amici briefs, research studies, and position papers from science and legal experts, professional organizations, the academe, advocates, and duty-bearers from around the globe on the various dimensions of the case.

Keenly aware that our Commission, as stated earlier, had neither the power to compel any of the parties to submit before us, nor the power to impose any kind of punitive judgment against them, we conducted our Inquiry upon the principle of persuasion, not compulsion. Thus, we proceeded to issue invitations, in lieu of summonses and subpoenas. We were also careful to clarify that we were not entertaining notions of imposing financial judgments against any party. We declared, however, that, despite our limitations, we were determined, indeed, to proceed with our inquiry.

We began the initial phases of our process by conducting interviews, round-table discussions, expert consultations, and community dialogues. And then we proceeded to the conduct of public hearings.
Preparatory to the public hearings, we invited the parties to a pre-hearing conference during international human rights week, on 11 December 2017. We conducted our first public hearing in March and our last in December, all in 2018.

In all, we held twelve public hearings from March to December of 2018: eight hearings were held in Manila, two hearings were held in New York, at the New York City Bar Association building, and two hearings were held in London, at the London School of Economics.

In the course of the public hearings, we heard 65 witnesses and received and marked 239 documents, both scientific and legal. These numbers do not include the resource persons invited by our commission and the documentary evidence submitted by them.

In the conduct of our public hearings, we sought to maintain our focus on the substantive aspects of the case, while adhering to internationally-recognized norms of due process of law.

Respondents were duly notified of the Petition filed concerning them and were strongly enjoined to participate in our hearings.

All the hearings were transparent and public, even cast live over the internet.

Teleconferencing facilities were set-up to enable parties and witnesses of all sides, even from other parts of the world, to participate in the Inquiry.

Testimonial and documentary evidence were received in a very organized manner, all of which were open to challenge by those who had interests to do so.

Witnesses and resource persons were put under oath and, after giving their direct testimonies, were subjected to examination by the Inquiry Panel members, in the absence of respondents who, despite every opportunity to challenge the witnesses, chose not to exercise this right.
Documentary exhibits were properly identified and marked.

The public hearings we conducted in North America (in the United States) and Europe (in the United Kingdom) were not only a matter of underscoring the global nature of climate change and the global character of the dialogue we sought to pursue. It was a matter of “due process,” as well - that is, if the carbon majors domiciled in other parts of the globe were not willing to come to our country, then we were willing to come to their regions, to encourage them to participate in our processes.

We offered to engage with respondents in special meetings, too, if that was what it would take to hear their position on the issues. For example, in our visit to the Netherlands to participate in a forum held in one of the top business universities in that region, we took the opportunity to especially invite one of them to a dialogue - closed door, if necessary.

Considering all the foregoing, it would be an understatement to say that we have endeavored to reach out to the respondents. We have, indeed, provided every opportunity within our resources to enable all the parties to dialogue with us.

Beyond the public hearings, we participated in forums and held consultations in other parts of the globe, such as Oslo, Geneva, Bangkok, Sydney, Bonn and Berlin in Germany, New York and New Jersey in the US, Břeukelen in the Netherlands, and London, Glasgow, and Stirling in the UK.

In myriad ways, we engaged international human rights bodies and organizations in our conversations, such as the South East Asia NHRI Forum (SEANF), the Asia Pacific Forum (APF), the Global Alliance of National Human Rights Institutions (GANHRI), the UN Working Group on Business and Human Rights (UN WGBHR), the UN Special Rapporteur on the Environment, the United Nations Office of the High Commissioner for Human Rights (UNOHCHR), and other institutional agencies.
Our findings and recommendations are informed by science and governance experts and may be considered by political and executive branches of government, as well as by courts, wherever they might be deemed relevant.

With our inquiry, we hope to have been able to help identify, or elaborate on, basic rights and duties relative to climate change, as well as amplify standards for corporate behavior.

We hope to have been able to demonstrate, as well, a model - albeit seminal - for the broadening of NHRI mechanisms and processes for providing access to justice, especially in regard to grave human rights challenges with transboundary character and extra-territorial obligations.

Commissioner Roberto Eugenio T. Cadiz
Chairman, National Inquiry on Climate Change
Commission on Human Rights of the Philippines
3 May 2022
I. MANDATE OF THE COMMISSION

The Commission on Human Rights of the Philippines (CHR) is an independent National Human Rights Institution (NHRI)\(^{10}\) created by the 1987 Philippine Constitution and organized under Executive Order No. 163, series of 1987. It is constitutionally mandated to:

1. Investigate, on its own or on complaint by any party, all forms of human rights violations involving civil and political rights;\(^{11}\)
2. Recommend to Congress effective measures that promote human rights and provide for compensation to survivors of human rights violations, or their families;\(^{12}\)
3. Monitor the Philippine government’s compliance with international treaty obligations on human rights;\(^{13}\)
4. Provide appropriate legal measures for the protection of human rights of all persons within the Philippines, as well as Filipinos residing abroad; and provide for preventive measures and legal aid services to the underprivileged whose human rights have been violated or need protection;\(^{14}\) and
5. Adopt its operational guidelines and rules of procedure.\(^{15}\)

II. MATTER BEFORE THE COMMISSION

Petitioners posit that, under both domestic and international law, private enterprises, not just States, have an obligation to respect and protect human rights. Underscoring the anthropogenic character of climate change and the latter’s adverse impacts on human rights, petitioners pray this Commission declare respondents – by extracting, producing,
and selling fossil fuels - accountable for either impairing, infringing, abusing, or violating human rights.

III. CHRP JURISDICTION AND ADMISSIBILITY OF THE PETITION

Through the combination and interplay of the five Constitutional powers of this Commission, it exercises jurisdiction over cases. Jurisdiction should not be understood only in the context of the power to render a binding decision, but also in the context of having the authority to perform other non-judicial constitutional mandates.

On the issue of subject-matter jurisdiction, this Commission notes the acceptance under customary international law of the interrelatedness, interdependence, and indivisibility of human rights and, therefore, accepts the view that it may investigate the whole gamut of human rights allegedly impacted in the petition.

The United Nations General Assembly recognizes that “the enjoyment of civil and political freedoms and of economic, social and cultural rights are interconnected and interdependent and that when deprived of economic, social and cultural rights, man does not represent the human person whom the Universal Declaration regards as the ideal of the free man.”\textsuperscript{16} Thus, the violation of one right inevitably impacts other rights which may or may not be in the same category. In order to provide effective remedy to victims and restore their dignity, all of the rights violated must be equally addressed.

A complete consideration of all the dimensions of human rights issues is required for this Commission to effectively exercise its recommendatory, monitoring, advocacy, and other powers.

In any case, if there still be doubt of the Commission’s wisdom in accepting the Petition, we note the allegation that climate change adversely impacts the right to life, classified as

a civil and political right under the International Covenant on Civil and Political Rights (ICCPR),\textsuperscript{17} to which the Philippines is a party. The United Nations Human Rights Committee (UNHRC), in General Comment No. 36 on the right to life pronounced:

\textit{62. Environmental degradation, climate change and unsustainable development constitute some of the most pressing and serious threats to the ability of present and future generation to enjoy the right of life. Obligations of States parties under international environmental law should thus inform the contents of article 6 of the Covenant, and the obligation of States parties to respect and ensure the right to life, and in particular life with dignity, depends, inter alia, on measures taken by States parties to preserve the environment and protect it against harm, pollution and climate change caused by public and private actors. States parties should therefore ensure sustainable use of natural resource, develop and implement substantive environmental standards, conduct environmental impact assessments and consult with relevant States about activities likely to have a significant impact on the environment, provide notification to other States concerned about natural disaster and emergencies and cooperate with them, provide appropriate access to information on environmental hazards and pay due regard to the precautionary approach.}\textsuperscript{18}

There is also no doubt that this Commission may inquire into allegations involving violations of human rights of Filipino people, even when occurring outside Philippine territory. No international or domestic law, rule, or principle prohibits this Commission from informing itself of facts and events occurring outside of the Philippines, as long as it does so in a manner respecting domestic laws of foreign territories. This is in line with the United Nations \textit{Principles Relating to the Status of National Institutions} (Paris Principles), which recognize that NHRI\text{\textemdash}s have adequate powers to investigate and gather information in order to perform their mandate to protect human rights.

\textsuperscript{17} United Nations International Covenant on Civil and Political Rights, art. 6, 1996, 999 U.N.T.S. 171 [ICCPR].

As it would be challenging for courts to exercise jurisdiction over respondents who are not domiciled within the Philippines, especially for acts also committed outside the Philippines, this Commission is compelled to inquire into the human rights abuses or violations alleged by petitioners.

In admitting the Petition, this Commission does not exercise adjudicative or enforcement jurisdiction, but merely fulfills its broad mandate to promote and protect human rights, which requires inquiring into the issues raised therein.

**IV. HISTORY OF THE CLIMATE INQUIRY AND CONDUCT OF THE PUBLIC HEARINGS**

On 22 September 2015, petitioners filed their Petition, urging this Commission to look into the responsibility of the world’s largest investor-owned fossil fuel and cement producers for human rights violations resulting from the impacts of climate change.

On 10 December 2015, the Commission declared that it would conduct a national inquiry to look into the allegations in the Petition. For this purpose, the Commission constituted an Inquiry Panel, composed of Commissioner Roberto Eugenio T. Cadiz, as Chair, former CHRP Chairperson Jose Luis Martin Gascon, Commissioner Karen S. Gomez – Dumpit, Commissioner Gwendolyn Ll. Pimentel – Gana, and now CHRP Chairperson Leah C. Tanodra – Armamento, as members. Dr. Peter William Walpole, S.J. joined the panel as its independent expert.

The inquiry was conducted in two parts - the first part, consisting of a multi-disciplinary consultative process, and the second, consisting of public hearings. In addition to the Amici Briefs and expert testimonies proffered during the Inquiry, the Commission took administrative notice\(^9\) of the reports of the Intergovernmental Panel on Climate Change

\(^9\) Omnibus Rule of Procedure Rules of Procedure of the Commission of Human Rights Rule 7 PROCEDURES IN THE CONDUCT OF PUBLIC INQUIRY section 22 provides that: “Applicability of the
(IPCC), the United Nations Framework Convention on Climate Change (UNFCCC), and the United Nations Environment Programme (UNEP).

A. Multi-disciplinary Consultative Process

In August 2017, the Inquiry Panel began conducting community dialogues, fact-finding missions, key informant interviews (KII), focus group discussions (FGD), and round table discussions (RTD) on climate change and human rights, as follows:

1. Two FGDs and 20 KII in Libon and Legazpi City in the Province of Albay from 10 to 16 August 2017;
2. Two FGDs and 6 KII in Tanauan and Tacloban City in the Province of Leyte from 11 to 15 September 2017, and a community dialogue and RTD from 6 to 8 December 2018 in Tacloban City;
3. Two FGDs and 7 KII from 13 to 14 February 2018 in the Province of Isabela;
4. Two FGDs and 4 KII in Alabat Island, Quezon Province from 10 to 12 April 2018, and a community dialogue in 11 October 2018;
5. A community dialogue with the provinces along of the Verde Island Passage\textsuperscript{20} convening in Batangas City on 7 June 2018; and
6. Four FGDs and one community dialogue in the Northern Mindanao Region with the Province of Bukidnon, the City of Iligan, and Cagayan de Oro City from 30 July to 1 August 2018.\textsuperscript{21}

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\textsuperscript{20} Province of Batangas, Province of Occidental Mindoro, Province of Oriental Mindoro, Province of Marinduque, and Province of Romblon.

\textsuperscript{21} Iligan City, Province of Bukidnon, and Cagayan de Oro City.
On 18 January 2019, the Inquiry Panel participated in a conference, entitled: “Climate Responsibilities of Business” held at the Nyenrode Business University in Breukelen, Netherlands. The conference, convened under Chatham House Rules, brought together key stakeholders, including leading scholars, lawyers, researchers, industry representatives, and NHRI experts. Further consultations with some of the authors of the *amici curiae* briefs were also conducted.

While in the Netherlands, the Inquiry Panel offered to meet separately with officers of respondent Royal Dutch Shell and other representatives of oil industry associations. The invitation, however, was politely declined.

On 21 April 2016, petitioners submitted their *Amended Petition*, after having been granted leave by the Inquiry Panel to amend their original *Petition* dated 22 September 2015.

On 9 June 2016, the Inquiry Panel ordered the petitioners “to observe the formatting requirements under Supreme Court A.M. No. 11-9-4-0SC, dated 13 November 2012, otherwise known as the ‘Efficient Use of Paper Rule,’ for pleadings, motions, and similar papers.”

On 21 July 2016, petitioners submitted their correctly-formatted *Petition*, dated 9 May 2016. On the same day, the Inquiry Panel sent copies of the *Petition* by registered mail to the 47 respondents, enjoining them to submit their *Answers to the Petition* within forty-five days from receipt thereof.

On various dates, the Inquiry Panel received a total of sixteen notices and responses to its communications, consisting of return to sender advisories, notices of non-participation, motions to dismiss, a letter acknowledging the issue of climate change with corresponding information on corporate social responsibility programs, and an “Opposition.”

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22 This was organized in cooperation with World Connectors and Stand Up for your Rights.
23 From the original fifty-two (52) initially identified/included by Greenpeace, et al. in their Petition dated 22 September 2015.
Meanwhile, the Business and Human Rights Resource Centre\textsuperscript{24} ("BHRRC"), an independent and international non-profit organization which provides an online repository of comprehensive global business and human rights knowledge and tracking human rights policy and performance of over 6,000 companies in over 180 countries, was able to gather eleven responses, from the following parties:

1. Anglo American plc;
2. BHP Billiton;
3. BP plc;
4. ConocoPhillips (Texas mailing address);
5. Eni S.p.A.;
6. Freeport-McMoRan Inc. (for Cyprus Amax Minerals Company);
7. Glencore plc (for Xstrata, Switzerland);
8. PJSC LUKOIL;
9. Peabody Energy Corporation;
10. Repsol; and
11. Rio Tinto London Ltd.

On 2 December 2016, petitioners filed a Manifestation and Motion to Submit a Consolidated Reply on or before 14 February 2017.

On 13 February 2017, the Inquiry Panel received petitioners’ Consolidated Reply, dated 10 February 2017.

On 16 March 2017, the Inquiry Panel issued a Notice, enjoining "parties who have not responded to the Petition, as well as those who have earlier filed their responses by way of letters, motions, manifestations, or other pleadings, to file, on or before 5 May 2017, their

answers, rejoinders, or other submissions” to either the Petition or Consolidated Reply. The Inquiry Panel also encouraged interested stakeholders to submit Amicus Curiae briefs.

The Inquiry Panel received Amicus Curiae briefs from the following individuals and institutions:

1. Asia Pacific Forum of National Human Rights Institutions (APF) and Global Alliance of National Human Rights Institutions (GANHRI),\textsuperscript{25}
2. Center for International Environmental Law (CIEL),\textsuperscript{26}
3. ClientEarth;\textsuperscript{27}
4. Environment Law Alliance (ELAW);\textsuperscript{28}
5. Dr. James Hansen, Director of Climate Science, Awareness and Solutions Earth Institute, Columbia University;\textsuperscript{29}
6. Maastricht Principles Drafting Group - Olivier De Shutter, former UN Special Rapporteur on the right to food and professor at the University of Louvain, Belgium; Asbjørn Eide, former Director and presently Professor Emeritus at the Norwegian Center for Human Rights at the University of Oslo; Ashfaq Khalfan, Director of Law and Policy Programme Amnesty International - International Secretariat; Marcos A. Orellana, Director of the Center for International Environmental Law’s (CIEL) Human Rights and Environment Program; Ian Seideman, Legal and Policy Director of the International Commission of

\textsuperscript{25}Asia Pacific Forum of National Human Rights Institutions (APF) and Global Alliance of National Human Rights Institutions (GANHRI), Amicus Brief – Human Rights and Climate Change (Submission in Support of Petitioners), available at https://www.asiapacificforum.net/media/resource_file/APF_Paper_Amicus_Brief_HR_Climate_Change.pdf (last accessed on 07 November 2019).


\textsuperscript{27}ClientEarth, Amicus Curiae Brief, dated 21 November 2016, also available at https://www.business-humanrights.org/sites/default/files/documents/ClientEarth.pdf (last accessed on 07 November 2019).


\textsuperscript{29}James Hansen, Amicus Submission in Support of the Petition, dated 28 August 2017, also available at https://www.business-humanrights.org/sites/default/files/documents/2017.08.28_Jim.Hansen.Amicus_Comm_Human%20Rights_0.pdf (last accessed on 07 November 2019); also see Our Children’s Trust, Amicus Curiae Brief.
Jurists; Rolf Küninemann, Human Rights Director, FIAN International Secretariat; Jernej Letnar Čertič, Associate Professor of Human Rights Law, Graduate School of Government and European Studies, Slovenia; and Bret Thiele, Co-Executive Director, Global Initiative for Economic, Social and Cultural Rights;30

7. Mary Robinson Foundation — Climate Justice;31
8. Our Children’s Trust (OCT);32
9. Timothy Crosland, Director of Plan B Earth;33
10. Sabin Center for Climate Change Law - Columbia Law School;34
11. Sara Seck, Faculty of Law of Western University, Ontario, Canada;35
12. Dr. Kevin E. Trenberth, Senior Scientist, Climate Analysis Section of the National Center for Atmospheric Research;36 and

In May 2017, Chevron Corporation; Chevron Philippines, Inc. and Chevron Holdings, Inc.; Chevron Geothermal Services Company; Chevron Kalinga Ltd. and Chevron Malampaya LLC; ConocoPhillips; Eni S.p.A; Repsol, S.A. and Repsol Oil and Gas Canada Inc; and The Shell Company of the Philippines Limited and Royal Dutch Shell filed their respective *Rejoinders and/or letter response to the Petitioners’ Consolidated Reply.*

On 7 December 2017, CEMEX S.A.B. de C.V. filed a *Manifestation* that it was no longer requesting for a formal resolution of its motion to dismiss, dated 14 September 2016.

On 11 December 2017, the Inquiry Panel held a pre-hearing conference with the parties to identify the issues, resource persons, and documents to be presented before the inquiry.\(^{38}\) Despite notice, only counsels for the petitioners and the counsel for respondent Cemex S.A.B. de C.V. appeared, the latter on special appearance to manifest its non-participation in the proceedings.\(^ {39}\)

The Chairman of the Inquiry Panel opened the conference, affirming the Commission’s decision to admit the *Petition* and announcing the reasons therefor. The nature of the Inquiry, as well as other procedural matters concerning the public hearings, such as the presentation, examination and marking of documentary evidence, were discussed.\(^ {40}\) It was also announced during the conference that, as of 18 October 2017, notices had been

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\(^{38}\) Transcript of Stenographic Notes (TSN) Case No. CHR-NHI-2016-0001 Conference of Parties 11 December 2017.

\(^{39}\) TSN Case No. CHR-NHI-2016-0001 Preliminary Conference 11 December 2017, p. 24.

\(^{40}\) TSN of the Meeting of the Parties dated 11 December 2017.
personally served upon the petitioners,\(^{41}\) while notices to the respondents\(^{42}\) were sent via registered mail.

The Inquiry Panel noted that it had received various communications and responses from the following respondents:

1. OMV Aktiengesellschaft;\(^{43}\)
2. Chevron Geothermal Services Company, Chevron Kalinga Ltd. and Chevron Malampaya LLC;\(^{44}\)
3. Chevron Philippines, Inc. and Chevron Holdings, Inc.;\(^{45}\)
4. Eni S.p.A.;\(^{46}\)


\(^{43}\) Received on 28 April 2017

\(^{44}\) Received on 03 May 2017 with an indication that they are returning the copies of the Consolidated Reply.

\(^{45}\) Received on 03 May 2017 with an indication that they are returning the copies of the Consolidated Reply.

\(^{46}\) Received on 04 May 2017
5. Murphy Oil Corporation;\textsuperscript{47}
6. Encana Corporation;\textsuperscript{48}
7. Arch Coal;\textsuperscript{49}
8. Consol Energy Inc.;\textsuperscript{50}
9. BG Group PLC;\textsuperscript{51}
10. Hess Corporation;\textsuperscript{52}
11. RWE Konzern;\textsuperscript{53} and
12. Devon Energy.\textsuperscript{54}

Registry return receipts were received by the Commission from the following:

1. Apache Corporation;\textsuperscript{55}
2. Marathon Oil Corporation;\textsuperscript{56}
3. Conoco-Phillips Corporation;\textsuperscript{57} and
4. Anglo-American Exploration.\textsuperscript{58}

During the said conference, the petitioners were asked to submit, by 11 January 2018, a list of their witnesses and electronic copies of all the documents which they intended for pre-marking.

\textsuperscript{47} Received on 16 November 2017
\textsuperscript{48} Received on 17 November 2017 with an indication that they have gone away or moved from the address indicated in the Petition.
\textsuperscript{49} Received on 18 November 2017.
\textsuperscript{50} Received on 18 November 2017.
\textsuperscript{51} Received on 18 November 2017 with an indication that they have gone away or moved from the address indicated in the Petition.
\textsuperscript{52} Received on 20 November 2017.
\textsuperscript{53} Received on 22 November 2017.
\textsuperscript{54} Mail was sent on 19 October 2017 and Devon Energy refused receipt of the same.
\textsuperscript{55} Received on 26 October 2017.
\textsuperscript{56} Received on 26 October 2017.
\textsuperscript{57} Received on 26 October 2017.
\textsuperscript{58} Received on 03 November 2017 with an indication that Anglo-American Exploration have gone away or moved from the address indicated in the Petition.
On 11 January 2018, the petitioners filed a *Motion for Extension of Time to Submit List of Witnesses and Other Documents*, praying for an additional thirty days, or until 10 February 2018, to comply.

On 19 March 2018, a *Joint Summary of the Amicus Curiae Briefs* was submitted by the briefers to the Inquiry Panel.

B. Public Hearings

The Inquiry Panel conducted the hearings in a dialogic, rather than adversarial manner. It operated on the principle of persuasion. While parties were given notices of the hearings, their participation was entirely voluntary. Indeed, as one of the respondents subsequently manifested in the withdrawal of its *Motion to Dismiss*, it found no issue with the Commission proceeding with the Inquiry as a non-adversarial process.  

The Inquiry Panel focused its public hearings on the substantive aspects of the case, while adhering to general principles of due process, as guided under the provisions of its *Omnibus Rules of Procedure*.

The hearings were transparent and streamed live over the internet, allowing all parties and other stakeholders from around the world to participate. Witnesses were treated as resource persons. They either appeared in person or gave their testimonies live via videoconferencing facilities. Everyone in attendance, including members of the general public, were given the opportunity to pose questions to the resource persons.

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59 Submitted by the following organizations and individuals: Center for International Environmental Law (CIEL) (Erika Lennon, Carroll Muffett, Sébastien Duyck, Steven Feit & Lisa Hamilton); ClientEarth (Sophie Marjanac); Environmental Law Alliance Worldwide (ELAW) (Killian Doherty & Jennifer Gleason); Maastricht Principles Drafting Group (Kristine Perry); Our Children’s Trust (Elizabeth Brown & Danny Noonan); Plan B (Tim Crosland); Sabin Center for Climate Change Law, Columbia Law School (Michael Burger & Jessica Wentz); Asia Pacific Forum of National Human Rights Institutions & the Global Alliance of National Human Rights Institutions (Dr. Annalisa Savaresi & Dr. Ioana Cismas); Dr. James E. Hansen (Dan Galpern); and Dr. Kevin E. Trenberth.

60 Received on 8 December 2017
On 27 and 28 March 2018, the Inquiry Panel held the first set of public hearings at the Session Hall of the CHRP in Metro Manila. Five resource persons, representing the indigenous youth, agriculture and fishery sector, and transport workers gave their testimonies. Eight resource persons provided their expert opinions on the impact of greenhouse gases (GHG) on the carbon cycle and the atmosphere, climate change and ocean acidification and the vulnerability of the Philippines to these; carbon majors as a source of carbon emissions; findings of the Philippine Atmospheric Geophysical and Astronomical Services Administration (PAGASA) in relation to climate change, health impacts of climate change, and CIEL’s Smoke and Fumes report.

On 23 and 24 May 2018, the second set of public hearings was held at the Session Hall of the CHRP in Metro Manila. Seven resource persons spoke about the concerns of fishermen, small business owners (fish consignment), and urban poor victims of Typhoon Ketsana (local: Ondoy) in Marikina and Rizal. Six resource persons gave their expert opinions on the liability or accountability of carbon majors, the legal framework of human rights responsibility of transnational corporations, analysis of the Inter-American Human Rights Court’s opinion on the right to a healthy environment, and climate change impacts on the agriculture sector, fish and seaweed supplies, reef ecology, and food chain supply in relation to the Philippines’ food security.

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61 Ms. Rica Cahilig.
62 Mr. Felix “Ka Jhun” Pascua, Jr., Ms. Lerissa Libao, and Ms. Elma Reyes.
63 Mr. Ernesto Cruz.
64 Dr. Gerry Bagtasa.
65 Dr. Laura David, Dr. Perry Aliño, Dr. Maria Lourdes San Diego-McGlone.
66 Dr. Peter Frumhoff.
67 Ms. Rosalina De Guzman.
68 Dr. Victorino Molina.
69 See Exhibit “K,” Smoke and Fumes: The Legal and Evidentiary Basis for Holding Big Oil Accountable for the Climate Crisis (Center for International Environmental Law), dated November 2017; Ms. Lisa Anne Hamilton.
70 Mr. Pablo Rosales and Mr. Jonathan Delos Reyes.
71 Mr. Pablo Taon III, Ms. Francia Encinas, Mr. Isagani Molina, Mr. RJ De Ramos, Mr. Manuel “Ka Noli” Abinales.
72 Mr. Carroll Muffett.
73 Dr. Michael Addo.
74 Dr. Marcos Orellana.
75 Undersecretary Sigfredo Serrano of the Department of Agriculture and Dr. Mudjekeewis Santos.
On 29 and 30 August 2018, the third set of public hearings was held at the Session Hall of the CHRP in Metro Manila, where six resource persons shared their stories and concerns. A transgender woman who survived super typhoon Haiyan shared how climate change compounded gender-based discrimination; fisherfolks and farmers from Capalonga, Camarines Norte narrated how their lives were impacted; and indigenous people from Ifugao Province articulated how climate change impacted their rice terraces in Banawe, which in turn adversely affected their cultural traditions. Eight expert resource persons tackled topics relating to recent climate scenarios; the vulnerabilities and specific impacts of climate change on children; the GHG contributions of the individual carbon majors; the documented corporate actions and communications on climate change of ExxonMobil and Shell; the vulnerability of the Philippines’ biodiversity to climate change; the health impacts of climate change and the pathophysiology of heat stress, air pollution, and the Zika virus; valuing climate change impacts, financial policies and climate change as risk multipliers for agricultural livelihoods; and extreme weather attribution science and climate litigation.

On 27 and 28 September 2018, the fourth set of public hearings was conducted in New York City. The petitioners presented three youth survivors of super Typhoon Haiyan and Hurricane Sandy, who spoke on how these extreme weather events impacted their lives and livelihood. Four resource persons discussed economic, social, and cultural rights in the context of climate change; how climate change acts as a threat multiplier; the fossil fuel industry and trade associations’ actions and response to climate change; the 1999 United States of America v. Philip Morris USA Inc., et al. case in relation to corporate

76 Ms. Arthur Golong is a transwoman and prefers to be called “Jean.”
77 Mr. Elicer G. Lauce and Ms. Delia A. Tulagan.
78 Ms. Delia A. Tulagan, Mr. Buucan Hangdaan, Ms. Dalia Nalliw, and Mr. William Mamanglo.
79 Dr. Rosa Perez and Dr. Celine Vicente.
80 Mr. Richard Heede.
81 Dr. Geoffrey Supran.
82 Mr. Carroll Muffett.
83 Dr. Neil Aldrin Mallari.
84 Dr. Jonathan Moses Jadloc.
85 Mr. Glenn Stuart Hodes
86 Ms. Sophie Marjanac.
87 Ms. Marinel S. Ubaldo, Ms. Cristina Cocadiz, and Ms. Candice Sering.
88 Ms. Katherine Lofts.
89 Mr. Kert Davies.
product liability;\textsuperscript{90} and attribution science identifying carbon majors as significant contributors to climate change.\textsuperscript{91}

The Inquiry Panel also heard six resource persons of its own invitation, namely: Professor David Estrin and Professor Cynthia Williams, who spoke on corporate accountability and disclosure principles; Dr. James Hansen, who briefly discussed the case of \textit{Juliana et al. vs. United States of America};\textsuperscript{92} Professor Erin Daly, who spoke on dignity rights; Professor Radley Horton, who discussed the effect of climate change on weather patterns; and Daniel Zarrilli, who discussed how the government of New York City was addressing climate change.

On 6 and 7 November 2018, the fifth set of public hearings was conducted at the London School of Economics. The petitioners presented two resource persons who shared their stories as typhoon survivors. One, as a survivor of Typhoon Ketsana (local: \textit{Ondoy})\textsuperscript{93} and a young survivor of super-typhoon Haiyan (local: \textit{Yolanda}).\textsuperscript{94} The petitioners also presented seven expert resource persons: Mark Campanale, Andrew Grant, Prof. Henry Shue, Dr. Roda Verheyen, Dr. Dylan Tanner, Dr. Myles Allen, and Dr. Paul Ekins OBE. These experts spoke about topics on how much carbon dioxide (CO$_2$) was released in the atmosphere and whether supply options of carbon majors were aligned with demand levels consistent with various scenarios of carbon constraint; the ethical aspects of the carbon majors’ responsibility for climate change; climate litigation cases and their relevance to the inquiry; European corporate influence on climate policy and action; attribution science of climate change (modelling) and assessing these changes with future climate simulations; and a model that contains estimates of the quantities, locations, and nature of the world’s oil, gas, and coal reserves and resources.

\textsuperscript{90} Ms. Sharon Eubanks.
\textsuperscript{91} Dr. Brenda Ekwurzel.
\textsuperscript{92} Docket No. 18-36082, 9th Circuit Court.
\textsuperscript{93} Ms. Mariel Trixie Bacason.
\textsuperscript{94} Ms. Veronica Cabe.
The Inquiry Panel heard seven experts of its own invitation: Joni Pegram, who discussed children’s rights in relation to climate change; Adam Matthews,95 as co-chair of Transition Pathways Initiative,96 who discussed the Church of England’s responsible investment practice; Dr. Jaap Spier, who discussed the Oslo Principles on Global Climate Change Obligations; Lene Wendland,97 who discussed human rights responsibilities of business in the context of the United Nations Guiding Principles on Business and Human Rights; Ben Schachter,98 who discussed climate change and its impact on the effective enjoyment of human rights and human rights obligations of States; Dr. Swenja Surminski,99 who discussed climate change and its impact on the human rights of the Filipino; and Linda Siegele,100 who discussed the provisions of the UNFCCC and the Paris Agreement as they relate to adaptation, loss, and damage.

On 11 and 12 December 2018, the final set of public hearings was conducted at the Session Hall of the CHRP in Metro Manila. Three resource persons101 were presented to share their stories as typhoon survivors who lost loved ones to Typhoon Washi (local: Sendong), and a Disaster Risk Reduction officer, who shared how Camotes Island in Cebu survived super typhoon Haiyan with zero casualties.

Six expert witnesses discussed the following topics: human rights responsibilities in relation to climate change; the Commission’s role in this global issue; the concept of a “just transition” and the corporate requirements on Carbon Majors to ensure that they act responsibly in relation to climate change; the health impacts of climate change and the development of a health adaptation strategy by the State in relation to climate change; how the United Nations Guiding Principles provide an analytical lens on what may constitute adequate human rights protection from climate harms in the Philippines, including the role

95 Director of Ethics and Engagement of the Church of England’s Pensions Board.
96 An initiative that assesses companies’ preparedness for the transition to a low carbon economy. (Source: https://lse.ac.uk/granthaminstitute/tpi, last accessed 13 November 2019)
98 Focal Point on Climate Change of the Office of the UN High Commissioner for Human Rights.
99 Head of Adaptation Research, Grantham Research Institute on Climate Change and the Environment, London School of Economics and Political Science (LSE).
100 Senior Teaching Fellow, Climate Change Law and Policy, SOAS University of London.
101 Ms. Amalia Bahian, Ms. Monica Piquero-Tan, and Ms. Honeylyn Gonzales.
of businesses in addressing these harms and the identification of policy gaps that should be addressed by the Philippine government; and the Climate Compensation Act and principles of liability for large-scale GHG emitters. Kumi Naidoo, Laura Gyte, Dr. Glenn Roy Paraso, former Commissioner of the Climate Change Commission, Naderev Sano, former Chair of this Commission, Loretta Ann Rosales, and Dr. Margaretha Wewerinke-Singh testified as expert resource persons for the petitioners.

On 26 June 2019, the Inquiry Panel asked petitioners to submit their *Formal Offer of Evidence* on or before 5 July 2019, and their *Memorandum*, on or before 31 August 2019.

On 4 July 2019, the petitioners filed an *Ex-Parte Motion for Extension*, dated 3 July 2019, requesting for an extension of fifteen days each within which to file the two pleadings, specifically by 20 July 2019, for the *Formal Offer of Evidence*, and by 15 September 2019, for the *Memorandum*, which motion was granted on 5 July 2019.

On 19 July 2019, the petitioners filed their *Ex-Parte Formal Offer of Documentary Exhibits and Manifestation*.

On 13 September 2019, petitioners filed an *Ex-Parte Manifestation and Additional Formal Offer of Documentary Exhibit* requesting the admission of evidence omitted in their formal offer of 19 July 2019.

On 19 September 2019, the petitioners submitted their *Memorandum*.

V. FINDINGS

A. Climate Change is Real

The IPCC defines climate change as the change in the state of the climate that can be identified (e.g., by using statistical tests) by changes in the mean and/or the variability of its properties, and that persists for an extended period, typically decades or longer. Climate
change may be due to natural internal processes or external forcings such as modulations of the solar cycles, volcanic eruptions and persistent anthropogenic changes in the composition of the atmosphere or in land use. This definition was derived from the observations of the scientific community through their research.

The United Nations Framework Convention on Climate Change (UNFCCC), which the Philippines signed on 12 June 1992 and ratified on 2 August 1994, has adopted a more nuanced definition, emphasizing the influence of human activities. It defines climate change as “a change of climate which is attributed directly or indirectly to human activity that alters the composition of the global atmosphere and which is in addition to natural climate variability observed over comparable time periods.” Philippine statutes have adopted a definition that reflects the one provided by the IPCC. These statutes define climate change as “a change in climate that can be identified by changes in the mean and/or variability of its properties and that persists for an extended period typically decades or longer, whether due to natural variability or as a result of human activity.”

The reports of the IPCC provide unequivocal evidence of global warming. The particular indicators are changes in the atmosphere, oceans, cryosphere, and frequency of extreme weather and climate events. Over the past several decades, these changes have been at


104 An Act Mainstreaming Climate Change into Government Policy Formulations, Establishing the Framework Strategy and Program on Climate Change, Creating for this Purpose the Climate Change Commission, and for other Purposes [Climate Change Act of 2009], Republic Act No. 9729, §3 (d) (2009); An Act Strengthening the Philippine Disaster Risk Reduction and Management System, Providing for the National Disaster Risk Reduction and Management Framework and Institutionalizing the National Disaster Risk Reduction and Management Plan, Appropriating Funds Therefor and for other Purposes [Philippine Disaster Risk Reduction and Management Act of 2010], Republic Act No. 10121, §3 (d) (2010); An Act Establishing the People’s Survival Fund to Provide Long-term Finance Streams to Enable the Government to Effectively Address the Problem of Climate Change, amending for the Purposes Republic Act No. 9729, otherwise known as the “Climate Change Act of 2009”, and for other Purposes, Republic Act No. 10174, §2 (2011).
levels unseen in centuries to millennia, and are changing at rates unprecedented in the last 2000 years.\textsuperscript{105}

The indicators, meticulously monitored and studied by the scientific community, as evidence of the reality of climate change, are as follow:

1. Atmospheric Warming

The temperature of the atmosphere increases due to excess heat being trapped by GHG instead of being released back into space. The IPCC reported that the mean global surface temperatures of each of the last four decades has been successively warmer than any decade that preceded it since 1850.\textsuperscript{106} From the years of 2001 to 2020, the global surface temperature was 1.09°C higher than 1850 to 1900 baseline conditions.\textsuperscript{107} This increase in temperature is being experienced in all regions of the world. Even accounting for natural climate variabilities, the rate of warming has been unlike anything in the past 800,000 years.\textsuperscript{108}

2. Oceanic Indicators

Ocean Warming

Oceans, much like the atmosphere, absorb excess heat that fails to escape into space. The IPCC reports state that ocean surface temperature has been increasing over the past decades. The global ocean has warmed unabated and its heat content has increased since 1970 and is projected to continue to increase over the 21st century. Furthermore, the rate


\textsuperscript{106} IPCC, AR 6, WG1, SPM

\textsuperscript{107} IPCC, AR 6, WG1, SPM

\textsuperscript{108} IPCC, AR6, WGI, SPM
of ocean warming has doubled since 1993. It has, on average, increased by 0.88°C from 1850-1900 to 2011-2020, with 0.60°C of this warming having occurred since 1980.\textsuperscript{109} Marine heatwaves\textsuperscript{110} have become more frequent over the 20th century, and since the 1980s, have approximately doubled in frequency and have become longer and more intense.\textsuperscript{111}

Sea Level Rise

Sea level rise is caused by thermal expansion of water in the seas due to their warming, as well as the increase of the amount of water due to the melting of the cryosphere. From 2006-2015, the sum of ice sheets and glacier melt contributions has been the dominant source of sea level rise, exceeding that of thermal expansion.\textsuperscript{112} The findings of the IPCC provide that the rise of global mean sea level (GMSL) in the 20th century is at a rate faster than any preceding century in at least the last three millennia. Between 2006 and 2018, the average rate of sea level rise was 3.7 mm per year.\textsuperscript{113} Since 1901, GMSL has risen by 0.20 [0.15 – 0.25] m, and the rate is accelerating\textsuperscript{114} due to the combined increased ice loss from the Greenland and Antarctic ice sheets.

Ocean Acidification

Ocean acidification occurs when oceans absorb CO\textsubscript{2}. The IPCC reports provide that the ocean has been absorbing more CO\textsubscript{2} and has undergone increasing surface acidification. The ocean has taken up between 20-30% of total anthropogenic CO\textsubscript{2} emissions since the


\textsuperscript{110} sustained periods of anomalously high near-surface temperatures that can lead to severe and persistent impacts on marine ecosystems

\textsuperscript{111} IPCC, AR 6, WG1, SPM

\textsuperscript{112} IPCC SROCC SPM

\textsuperscript{113} IPCC, AR 6, WG1, SPM

\textsuperscript{114} IPCC, AR 6, WG1, SPM
1980s.\textsuperscript{115} This has resulted in ocean surface pH declining globally over the past four decades and in all ocean basins in the ocean interior over the past two to three decades.\textsuperscript{116}

3. Cryosphere Loss

The cryosphere refers to the portions of the Earth System that is frozen such as glaciers, ice sheets, icebergs, sea ice, snow cover, and the like.\textsuperscript{117} It is inherently reactive to temperature changes, and “provides some of the most visible signatures of climate change.”\textsuperscript{118} Over the last few decades, the cryosphere has seen widespread shrinking due to global warming.\textsuperscript{119} Ice sheets and glaciers worldwide have lost mass worldwide. The mass loss from the Antarctic ice sheet in 2007–2016 was triple that lost in 1997–2006. While the mass loss in Greenland was doubled over the same period. Snow cover and arctic sea ice extent and thickness have been reduced, and permafrost temperatures have increased.\textsuperscript{120}

4. Extreme Weather and Climate Events

Climate change has also significantly affected the frequency, intensity, extent, duration, and timing of extreme weather and climate events.\textsuperscript{121} Since the 1950s, there have been clear changes in many types of extreme events including droughts, heavy precipitation, tropical cyclones, and heat waves. The IPCC has found that hot extremes such as heatwaves have become more frequent and intense across land regions while cold extremes

\textsuperscript{115} IPCC SROCC SPM
\textsuperscript{116} IPCC, AR 6, WG1, SPM
\textsuperscript{117} IPCC SROCC SPM
\textsuperscript{119} IPCC SROCC SPM
\textsuperscript{120} IPCC SROCC SPM
have become less frequent and severe.\textsuperscript{122} Other events such as heavy precipitation, tropical cyclones, and droughts have increased in frequency and intensity. Compound extreme events such flooding and fire weather have also increased due to the influence of climate change on precipitation, droughts, and cyclones.\textsuperscript{123}

The enumerated indicators when taken together all point to the conclusion that the climate has indeed changed. The Commission accepts this unequivocal truth, as established by peer-reviewed science, that climate change is real and happening on a global scale.

B. **Climate Change is Anthropogenic**

The scientific community has long achieved a consensus that climate change is induced by human activity. In the past, scientific uncertainty as communicated in scientific research such as the IPCC assessment reports\textsuperscript{124} were used to sow doubt and confusion in public perception on how much of climate change is attributable to anthropogenic or human activities.\textsuperscript{125} However, in 2021-2022, the IPCC released its latest reports, the Sixth Assessment Reports (AR6), stating that it is unequivocal that the climate change that is currently being experienced is anthropogenic in origin, foregoing the use of their previous method of communicating uncertainty. Human influence has warmed the climate,
atmosphere, ocean and land at a rate that is unprecedented in the last 2000 years. The report of Working Group I of AR6 states that global atmospheric concentrations of the GHG responsible for warming, such as CO₂, methane (CH₄), and nitrous oxide (N₂O), have all risen significantly in the last few thousand years. In particular, atmospheric CO₂ concentrations are higher than at any time in at least two million years and concentrations of CH₄ and N₂O are higher than at any time in at least 800,000 years. These increases in GHG concentrations are unequivocally caused by human activities since around 1750.

The key global indicators, as previously discussed, also point to the conclusion that human activities have caused significant changes. The IPCC found that the warming of the atmosphere and oceans, the acidification of the ocean, sea-level rise, the decrease of the cryosphere, and the changes in climate and weather events can all be traced back to the influence of human activities on the climate.

All these considered, the Commission accepts that climate change is primarily anthropogenic or caused by human activities.

C. **Climate Change is a Human Rights Issue**

1. **Adverse Impacts of Climate Change on Human Rights**

   i. **In General**
Anthropogenic climate change is “the greatest human rights challenge of the 21st century.”\textsuperscript{131} It negatively affects a host of, if not all, human rights.\textsuperscript{132} Climate change impacts, including the degradation of the environment; deprivation of resources; prevalence of life-threatening diseases; widespread hunger and malnutrition; and extreme poverty, among others, prevent an individual from living a dignified life.

Some of the individual rights adversely impacted are the rights to life, food, water, sanitation, and health. Collective rights are also affected, including the rights to food security, development and sustained economic growth, self-determination, preservation of culture, equality and non-discrimination.

Vulnerable sectors are also impacted, such as women and children, indigenous peoples, older adults, and persons with disabilities.

Climate change also impacts the rights of future generations, which brings to fore the duty of stewardship upon the present.

Climate change is also now a major cause of migration and a threat to global security.

Professor Erin Daly, CHRP resource person, explains the relationship between climate change impacts and human dignity, which is at the core of all human rights, as follows:

\textit{Focusing on human dignity helps us see the interdependence, the interrelatedness, the indivisibility of our human rights, which is in fact how deprivation of rights are experienced by people. When a typhoon hits, it is not just independently the loss of a house, the loss of a school, the loss of

\textsuperscript{131} As remarked by Former High Commissioner for Human Rights, Mary Robinson, now President of the Mary Robinson Foundation – Climate Justice, during the panel discussion on human rights and climate change during the 28\textsuperscript{th} session of the Human Rights Council.

family, the loss of health care, the lack of water, food insecurity of the end of hope that needs to be vindicated, but all of these churning together in combination and in turmoil that makes the experience of climate impacts so devastating and so threatening to human dignity.133

Petitioner Veronica Cabe, a survivor of Typhoon Ketsana (local: Ondoy), testified:

...The floods have changed our lives. I felt like parts of our dignity was lost because we felt displaced.

We felt displaced, we didn’t have our own space. We were forced to live with friends who were willing to share their homes with us. We were separated from each other. My nephews lived in another relative’s house. We relied on relief goods and donations for months. I recall every day I had to queue in line and wait for hours, half a day every day waiting for possible relief. We did not know if relief would come and then line up again for another day. And then relief foods were thrown at us, and I saw my neighbors struggling against each other just to get their share. It was chaotic that time. The government was not ready for an Ondoy flood that time. And one important thing is that we had to borrow money from everyone because we did not have money.134

Marinel Ubaldo, a survivor of Super Typhoon Haiyan (local: Yolanda), narrated:

I went back to our house even though the winds were still strong, as I wanted to see if we still have a home to go back to. Though it was still dangerous for me to go back, I also wanted to save a box that has a sentimental value to me. That box was very special to me because it was filled with my personal things, my literary works, the medals and certificates I earned in school. For me, that box symbolizes who I am. My achievements, my self-worth. Nothing

134 TSN of the Fifth Inquiry Hearing dated 6-7 November 2018, p. 110-111.
was left of our home and losing that box also felt like losing my identity, my
dreams, my significance as a person.135

The effects of extreme weather events attributed to climate change dehumanizes the human
person. The combination of loss of lives, deprivation of basic needs, material loss, emotional trauma and hopelessness that these survivors experience strip them of their dignities.

2. Adverse Impacts of Climate Change in the Philippines

Long-term data over a 20-year period places the Philippines as the fifth most climate change-affected country in the Global Climate Risk Index.136 Yet, the country only accounts for 0.3 percent of global emissions.137 It is evident that the burden of climate change falls disproportionately on the Filipino people.

Culled from the testimonies of resource persons presented during the Inquiry hearings, fact-finding missions, community dialogues, KIIIs, and FGDs, this section illustrates how the brunt of climate change has prevented many Filipinos from living their lives with dignity.

i. Right to Life

No human right is more fundamental and universal than the inherent right to life. It essentially means the right to exist. Its recognition is enshrined in Article 3 of the United

Nations Declarations of Human Rights\textsuperscript{138} (UDHR), Article 6 of the ICCPR, and in various international treaties and instruments and State constitutions. In the Philippines, it is protected by Article III, Section 1 of the Constitution.

UNHRC General Comment No. 36 to Article 6 of the ICCPR recognizes climate change as one of the most pressing and serious threats to life.\textsuperscript{139} The UNEP further explains that climate change, through sudden onset events, poses a direct threat to human lives and safety, and, through gradual forms of environmental degradation, undermines critical resources that support human life.\textsuperscript{140} A study commissioned by the Climate Vulnerable Forum found that climate change is responsible for an estimated 400,000 deaths per year due to the direct effects associated with extreme weather events, flooding, heat waves, disease, and water and food insecurity.\textsuperscript{141} The World Health Organization (WHO) reported that between 1998 and 2017, more than 166,000 people died from brutal heat waves,\textsuperscript{142} a figure that, given the projected increase of populations especially in urban areas where climate models predict intense warming due to continued emissions,\textsuperscript{144} will exponentially increase in the coming decades. Climate change is also expected to cause approximately 250,000 additional deaths per year between 2030 and 2050 due to an increase in malnutrition, malaria, dengue, diarrhea, and heat stress.\textsuperscript{145}

\textsuperscript{138} UN General Assembly, Universal Declaration of Human Rights, 10 December 1948, 217 A (III). Hereinafter referred to as UDHR.

\textsuperscript{139} H.R. Comm., General Comment No. 36 (2018) on Article 6 of the International Covenant on Civil and Political Rights, on the Right to Life, UN Doc. CCPR/C/GC/36 (Oct. 30, 2018) ¶ 62.


\textsuperscript{142} WHO, "Heatwaves." Accessed at: https://www.who.int/health-topics/heatwaves#tab=tab_1.


\textsuperscript{145} World Health Organization, Quantitative Risk Assessment of the Effects of Climate Change on Selected Causes of Death, 2030s and 2050s (Geneva: World Health Organization, 2014), cited in the Amicus Submission in Support of Petitioners by the Sabin Center for Climate Change Law.
Climate change’s impact on the right to life of the Filipino people is most pronounced in the death toll and trauma left by extreme weather events. The deadliest in recent history, Super Typhoon Haiyan (local: Yolanda) in 2013 resulted in 6,300 individuals dead, 28,688 injured and 1,062 missing in one swoop.\(^{146}\)

Emilio Oñate, a Haiyan survivor, recounted what he saw – the water had carried away everything in its path, even humans and animals.\(^{147}\) Emilio saw people drown. He said it was the most traumatic scene – one moment people were reaching above the water, fighting for their lives, and the next moment, they were gone.\(^{148}\)

Other survivors of extreme weather events that claimed the lives of thousands of Filipinos shared the same experience of profound loss and grief. Amalia Bahian, a survivor of Tropical Storm Washi (local: Sendong) narrated:

> I can say that typhoon Sendong was one of its kind. There were several typhoons that hit us, but never as strong as such typhoon. We seemed unaware of a looming disaster that would befall our family. I never thought this would kill thousands of lives including my three (3) children, one (1) son-in-law, and four (4) grandchildren. I did not know that day was the last time that I will see them. But the saddest part was that their bodies remain missing up to this day.\(^{149}\)

Honeylyn Gonzales, who was only eighteen years old when Tropical Storm Washi struck in 2011, testified:

> My older brother and I together with our two (2) younger siblings decided to cross the street even if the flood was already at the chest level to get to the

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\(^{147}\)Emilio Oñate, Leyte Fact Finding Mission.

\(^{148}\)Ibid.

\(^{149}\)Exh. CCCCCCCCC, Saysay ni Gng. Amalia Bahian (With English Translation) p. 2.
waiting shed. We saw a house with a second floor where we went to, after that, my older brother left us to go back to our parents to help them get to where we were at since our parents needed help too as they are disabled. My two (2) younger siblings and I waited for our parents and older brother but they never came, later on I found out from a neighbor who survived that the three of them were able to move to another house that was quite high. On December 17 at around 2:00 AM, my older brother sent our neighbor where the three of us were [a text message] to ask how we were doing, my older brother’s message was “how are my three (3) siblings?” Then our neighbor tried calling my older brother, but his phone could not be reached, little did we know that the house where he and my parents were staying at had already collapsed. The following morning, together with my two (2) siblings we immediate [sic] left the place we stayed at to go to where my parents and older brother, while on our way there we never thought that they have died. While heading to the said place, we saw a lot of dead people on the road, a lot of houses and properties were wrecked but [we] didn’t find our missing family members. Then I decided to temporarily leave my two (2) siblings in the church to continue looking for my parents and older brother. After looking for the entire day, I still was not able to find any of them. We continued to look for them, we went to funeral homes, any place where people said that there were survivors, but no one from my six (6) missing family members could be found.\(^{150}\)

These are just three of the thousands of similar stories spanning decades of extreme weather events. Filipinos carry the brunt of anthropogenic climate change by paying with their lives.

ii. Right to Health

The right to health is recognized by several international and regional human rights instruments including, the UDHR, International Convention on Economic, Social, and

\(^{150}\) TSN of the Sixth Inquiry Hearing dated 11-12 December 2018, p. 49-50.
Cultural Rights (ICESCR)\textsuperscript{151}, International Convention on the Elimination of All Forms of Racial Discrimination, the Convention on the Elimination of All Forms of Discrimination against Women (CEDAW),\textsuperscript{152} and the Convention on the Rights of the Child (CRC),\textsuperscript{153} among others. WHO defines it as “a state of complete physical, mental and social well-being and not merely the absence of disease or infirmity.”\textsuperscript{154} The Committee on Economic, Social and Cultural Rights (CESCR) further provides that the right to health is “closely related to and dependent upon the realization of other human rights.”\textsuperscript{155} It “embraces a wide range of socio-economic factors that promote conditions in which people can lead a healthy life, and extends to the underlying determinants of health.”\textsuperscript{156}

Climate change negatively affects the right to health because humans are vulnerable to shifts in weather patterns.\textsuperscript{157} An increase in heat, for instance, affects humans in multiple ways. Directly, extreme heat can create physiological stress on the body causing dehydration, heat cramps, and heat stroke. More serious implications include hospitalization and increased risk of death from respiratory, cardiovascular, and other chronic diseases.\textsuperscript{158} Indirectly, heat can subject populations to increased transmission of


\textsuperscript{154} Preamble “Constitution of the World Health Organization”, American Journal of Public Health 36, no. 11 (November 1, 1946)

\textsuperscript{155} UN Committee on Economic, Social and Cultural Rights (CESCR), General Comment No. 14: The Right to the Highest Attainable Standard of Health (Art. 12 of the Covenant), E/C.12/2000/4 (11 August 2000), para. 3.

\textsuperscript{156} Id. at para. 4.


food and waterborne diseases and to poor air and water quality.\textsuperscript{159} This is also true for extreme weather events that severely degrade water and sanitation infrastructure leading to outbreaks of diseases.\textsuperscript{160} Variable rainfall affects freshwater supply which in turn compromises hygiene and leads to increased diarrheal diseases.\textsuperscript{161} Changes in climatic conditions can also lengthen the transmission season and widen the geographic range of diseases,\textsuperscript{162} and increase instances of “water-borne diseases and diseases transmitted through insects, snails or other cold-blooded animals.”\textsuperscript{163}

Climate change also impacts the mental health of individuals and communities. It has been reported that “people who experienced the loss of homes or loved ones or were exposed to life-threatening situations faced higher risks of developing stress and anxiety-related conditions, including post-traumatic stress disorder or depression.”\textsuperscript{164} Finally, climate change also causes the collapse of all determinants of health “such as food and nutrition, housing, access to safe and potable water and adequate sanitation, safe and healthy working conditions, and a healthy environment.”\textsuperscript{165}

In the Philippines, Article II Section 15 of its Constitution protects and promotes the right to health of its people. Yet, climate change has and continues to impinge on the Filipinos’ right to health. Filipinos suffer from illnesses resulting from severe temperature increase, extreme weather conditions, air pollution, food and water shortage, and population displacement. Water and food-borne diseases and vector-borne and rodent-borne diseases

\textsuperscript{159} Ibid.
\textsuperscript{162} UNOHCHR 2016 report on climate change and the right to health.
\textsuperscript{164} UNOHCHR (2016) Outcome of the panel discussion on the adverse impact of climate change on States’ efforts to progressively realize the right of everyone to the enjoyment of the highest attainable standard of physical and mental health and related policies, lessons learned and good practices: Summary report of the Office of the United Nations High Commissioner for Human Rights. A/HRC/32/24
\textsuperscript{165} Ibid.
have also increased.\textsuperscript{166} Heavy rainfall during the wet season,\textsuperscript{167} combined with the shortened incubation period of viruses due to elevated ambient air temperatures during droughts,\textsuperscript{168} has multiplied the incidence of dengue in the Philippines.

In August 2019, the Philippine Department of Health declared a national dengue epidemic owing to the 98\% increase in cases from January to July 2019.\textsuperscript{169} There was also an emergence of Chikungunya, a vector-borne disease which may cause debilitating symptoms for up to around three months, in the southern Philippines just months after Typhoon Haiyan (local: \textit{Yolanda}). Dr. Jonathan Moses Jadloc, National Chair of the Climate Change Committee of the Philippine College of Physicians, testified that "\textit{this aedes aegypti vector came from the environment, which was brought about by Yolanda.}\textsuperscript{170}"

There are also documented cases of \textit{Schistosomiasis}, an acute and possibly chronic disease caused by parasitic flatworms that are released by infected snails during floods.\textsuperscript{171}

Rising temperatures have also led to heat-related illnesses such as heat exhaustion and heat stroke. The majority of the fisherfolk who participated in the KIIIs and FGDs complained of the intense heat. Among them, Lowell Factor shared that he has to brave the intense heat and sun even if it causes extreme discomfort and severe sunburns.\textsuperscript{172}

Extreme weather events have also severely affected Filipinos’ mental health. Most survivors of extreme weather events suffer from psychological distress. During the Inquiry, Joy Tomes

\textsuperscript{166} Exh. JJ to JJ-8, Printed PowerPoint Presentation of Dr. Molina. Victorio B. Molina, PhD, an Associate Professor at the Department of Environmental and Occupational Health, College of Public Health at the University of the Philippines-Manila.

\textsuperscript{167} Precipitation value and incidence of dengue have been trending together positively (ADB, 2011, \textit{Accounting for Health Impacts of Climate Change}, 2011, Figure 3, p. 5).


\textsuperscript{170} TSN of the Third Inquiry Hearing dated 29-30 August 2018, p. 255-256. Dr. Jonathan Moses Jadloc, the National Chair of the Climate Change Committee of the Philippine College of Physicians (PCP) and the Foundation of PCP.

\textsuperscript{171} Focus Group Discussion, Northern Mindanao, p.45

\textsuperscript{172} Lowell Factor, Case Study: Verde Island Passage, p.30.
shared that her children were in a state of shock after Typhoon Haiyan (local: *Yolanda*) and did not want to go home from the evacuation center because of the trauma.\textsuperscript{173} Marinel Ubaldo, a survivor of the same typhoon, narrated:

...We couldn’t also bear the thought of eating fish that may have fed on the dead bodies of our dead neighbors and the people we know...As time passed, my father [a fisherman] suffered from depression. He barely ate and slept. He couldn’t bear to go fishing anymore and he became suicidal. Knowing that your family is in that painful situation made things worse, but I had to remain strong.

Five (5) years after, my nerves still get the best of me whenever I hear the crash of ocean waves. I get anxious and restless when it rains because I fear that another Haiyan will happen again. It took me three years before I was able to go to the ocean again. It’s sad because the ocean was our childhood friend.\textsuperscript{174}

Finally, climate change has also overwhelmed the Philippines’ public health systems. In Southern Mindanao, mental health services were exhausted after typhoons.\textsuperscript{175} Provinces had to ask help from external organizations to respond to the demand.\textsuperscript{176} It is clear that climate change has deleterious systemic and widespread effects on the realization of the right to health of Filipinos.

iii. Right to Food Security

The UDHR and the ICESCR protect the right to food as part of the right to a dignified standard of living.\textsuperscript{177} The CESCR in its General Comment No. 12 states that this right is “realized when every man, woman and child, alone or in community with others, have physical and economic access at all times to adequate food or means for its

\textsuperscript{173} Joy Tomes, Community Dialogue in Tacloban, p.11.
\textsuperscript{175} Northern Mindanao FGD, p. 25.
\textsuperscript{176} Ibid.
\textsuperscript{177} UDHR, Article 25 (1); ICESCR, Article 11 (1).
procurement.” While the Philippine Constitution does not explicitly mention the right to food, the recognition of such a right may be inferred from various provisions on human dignity as well as in Article XV, Section 3 which requires the State to, among others, defend children’s right to proper nutrition.

The impacts of climate change on food availability, accessibility, adequacy and sustainability are outlined in a report by the Special Rapporteur on the right to food. Citing the IPCC, the report warns that the rising temperatures and increased frequency of extreme weather events will negatively affect crop, livestock, fisheries and aquaculture productivity, and will in turn impact food availability. Food accessibility will be more difficult - especially for the poor and socially-vulnerable groups- due to changes in food production and market prices. Food distribution during emergencies will also become increasingly complicated because of more frequent and intense extreme weather events. The Food and Agriculture Organization (FAO) of the UN also warns that the number of people battling hunger and undernourishment will continue to rise if we fail to tackle climate change.

Expert resource speakers all confirmed that in the Philippines, there is dwindling fish catch and reduction in agricultural produce due to climate change. Production of rice, the staple food of Filipinos, is reduced by ten percent (10%) for every one degree centigrade (1°C) increase in night temperatures. For corn, there is a one point seven percent (1.7%) yield reduction for each day above thirty degrees centigrade (30°C) under drought conditions. Fruits and vegetables also have substantial yield reductions. As for livestock, aside from the negative impacts on animal fertility, there is a three to five percent (3-5%) reduction in feed intake for every one centigrade (1°C) above thirty centigrade (30°C).

178 UN Committee on Economic, Social and Cultural Rights (CESCR), General Comment No. 12: The Right to Adequate Food (Art.11), E/C.12/1999/5 (12 May 1999), para. 6.
180 Ibid.
181 Ibid.
182 Ibid.
184 Laura T. David, PhD, Maria Lourdes San Diego-McGlone, PhD, Porfirio Miel Aliño, PhD, Mudjekeewis D. Santos, PhD, Undersecretary Sigfredo Serrano, and Vincent V. Hilomen, PhD.
These result in food supply challenges, higher food prices, higher malnutrition and food insecurity.¹⁸⁵

This is confirmed by the consistent experience of community resource persons¹⁸⁶ in their respective localities. Elicer Lauce, both a farmer and fisherfolk, described his situation as follows:

When we were fishing in the ocean from the seventies to the eighties, we’d catch seven kilos within less than three hours. But lately, in the year 2000, there is a decreasing volume and sizes of the varieties of fishes we are getting. That is why we had an idea to create other strategies. We placed payao fish aggregating devices in the sea, wherein we go far from shorelines so that we can create a sanctuary-habitats of fishes so there would be sources of fish.

In our coconut field, on the other hand, we have lots of coconuts and other trees, as well before. But now, when 1990s until 2000s came, lots of coconuts were struck by diseases. There is what we call kadang-kadang (coconut scale insect disease), and aside from that, there are Brontispa. In other places, there are cocolisap. This is the reason why lots of coconut trees were cut down because of the kadang-kadang disease where trees and leaves turn yellow and eventually die.

In our rice fields, since we are also farming almost nine thousand square meters (9,000 sq. m.), during 1970s to 1980, we were able to harvest seventy to eighty (80) cavans. The fifty (50) cavans are being used as capital because we don’t have investment money. Lately, because of the intense heat of the sun, we are only harvesting sixty (60) cavans. That is why we just deduct the capital from the remaining ones. But you cannot always harvest because

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¹⁸⁵ See Exh. UUU to UUU-8, Printed PowerPoint Presentation of Usec. Serrano. Undersecretary Sigfredo Serrano of the Policy and Planning, Project Development, Research and Regulation of the Department of Agriculture.

¹⁸⁶ Rica Diamzon Cahilig, Felix “Ka Jhun” Pascua, Jr, Lerissa Libao, Elma Reyes, Pablo Rosales, Jonathan Delos Reyes, Delia Tulagan, Buucan Hangdan, Dalia Naliw and William Mamanglo,
farming is like a gamble. There would be seasons wherein you can’t harvest due to flood or extreme heat.\textsuperscript{187}

iv. Right to Water and Sanitation

The UN General Assembly recognizes “the right to safe and clean drinking water and sanitation as a human right that is essential for the full enjoyment of life and all human rights.”\textsuperscript{188} In its General Comment No. 15, the CESCR provided that “the human right to water is indispensable for leading a life in human dignity [and] it is a prerequisite for the realization of other rights.”\textsuperscript{189} It also affirms that both the rights to water and sanitation are essential components of the right to the highest attainable standard of health.\textsuperscript{190} However, as the former Special Rapporteur on the human right to safe drinking water stated, “climate change presents a serious obstacle to the realization of the rights to water and sanitation. . . The impacts of climate change need to be seen in light of its direct effects on water resources as well as its indirect influence on other external drivers of change, in particular increasing population pressures and changing consumption patterns.”\textsuperscript{191}

Extreme weather events, sea level rise and rising temperatures result in water scarcity and increased competition for clean water resources, disruption to sanitation systems, contamination of drinking water and exacerbation of spread of diseases. There is also a resulting increase in the cost of water and sanitation provisions, which threatens people’s access – particularly the poor and vulnerable - to these rights.\textsuperscript{192} All these are currently being experienced by Filipinos. Smaller islands and coastal communities with limited

\textsuperscript{187} TSN of the Third Inquiry Hearing dated 29-30 August 2018, p. 93-94.
\textsuperscript{190} CESCR, General Comment No. 15, para. 3; CESCR, Statement on the Right to Sanitation, E/C.12/2010/1 (18 March 2011).
\textsuperscript{191} Climate Change and the Human Rights to Water and Sanitation, Position Paper (undated) https://www.ohchr.org/Documents/Issues/Water/Climate_Change_Right_Water_Sanitation.pdf; The UN Special Rapporteurs on the rights of persons with disabilities, Ms. Catalina Devandas Aguilar; the issue of human rights obligations relating to the enjoyment of a safe, clean, healthy, and sustainable environment, Mr. John H. Knox; extreme poverty and human rights, Mr. Philip Alston; the human right to safe drinking water and sanitation, Mr. Léo Heller; and the Independent Expert on human rights and international solidarity, Ms. Virginia Dandan, The Effects of Climate Change on the Full Enjoyment of Human Rights (30 April 2015).
\textsuperscript{192} Climate Change and Human Rights to Water and Sanitation.
freshwater resources are especially susceptible as sea level rise causes saltwater intrusion into the fresh water source. Jesiderio Delos Reyes, a community resource person, shared that in their town in Calatagan, saltwater seeped into deep wells, preventing access to drinking water, and burdening families with the added cost of buying potable water from commercial dealers.193

The rise in temperature and extreme heat has caused drinking water sources to dry up. Elicer Laue testified that it is now difficult to acquire drinking water because the springs are drying-up.194 In Alabat Island, Quezon Province, residents would install pipes but have no water sources to connect the pipes to.195 In Marinduque, communities are left without a water source as the river has dried up.196 The Philippines’ National Economic Development Authority (NEDA) projects that climate change will impact domestic water prices.197 A rise in prices will impede access to potable water, especially in urban areas where the population is dependent on commercial water systems.

Extreme weather events damage water and sanitation infrastructure. Victims of typhoons and flooding commonly lack access to water, sanitation, and hygiene (WASH) facilities. Marielle Trixie J. Bacason, a survivor of Typhoon Haiyan (local: Yolanda) testified that while they could prepare before the typhoon by stockpiling canned goods, they did not have clean water. She narrated that after the typhoon, she had to walk several miles to a relative’s house, passing dead bodies on the way, just to access clean water.198 While evacuation centers were providing safe drinking water, they did not have sufficient toilets, garbage collection, or vector control management.199 Without the appropriate WASH infrastructure, the survivors of extreme weather events are again victimized by the violation of their human rights to water and sanitation.

193 NICC CD/ Fact-finding Mission in Verde Island Passage, Batangas, 6-8 June 2018 Documentation Report, p. 10.
194 TSN of the Third Inquiry Hearing dated 29-30 August 2018, p. 94.
196 Rolando Jusue, Provincial Gov’t Environment and Natural Resources Office – Marinduque. June 2018, Key Informant Interview – Verde Island Passage, p.42/
197 NEDA in PhilCCA WG2
198 TSN of the Fifth Inquiry Hearing dated 6-7 November 2018, p. 98-99.
v. Right to Livelihood

Article 6 of the ICESCR recognizes “the right to work, which includes the right of everyone to the opportunity to gain his living by work which he freely chooses or accepts.”200 Meanwhile, Article II, Section 9 of the Philippine Constitution provides that the State shall “promote full employment, a rising standard of living, and an improved quality of life for all,”201 and Sections 3 and 9 of Article XIII thereof recognize and promote the importance of equal employment opportunities for all.

However, the IPCC notes that climate change affects both access to and the quality of natural resources that sustain livelihoods.202 In the agricultural sector, farmers experience a higher incidence of pests and diseases, low crop productivity/yield, stunted growth, delays in fruiting and harvesting, declining quality of produce, increased labor costs, and low farm income.203 Increased rainfall has also caused prolonged inundation and destruction of crop fields – particularly rice, which is especially vulnerable to water stress.204 The weather unpredictability has “made rice-planting less exact and more like guesswork.”205 Yields of other crops were also drastically reduced, making farming less viable as a source of livelihood, and forcing communities to shift to other industries such as construction work.

Buucan Hangdan, an indigenous farmer of the Ifugao tribe residing in the Banaue Rice Terraces, described the disruption in this manner:

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200 ICESCR Art 6, par. 1
201 1987 Philippine Constitution Article 2 Section 9
202 IPCC, AR5 WGII, 1068.
206 Ibid.
Another change is that before, we knew when the rainy season would be. We could plan our planting schedule because we knew the period of good weather when it did not rain that much. So we planted on the month when we predicted good weather to plant, and when we need to transplant. But the problem now is the sudden change in weather. You cannot predict anymore when it will rain. When it rains, it is continuous and torrential; sometimes to the point that the rice fields cannot accommodate the volume of water.

We used to work in our rice fields from about five o’clock in the morning until evening. Our only break was when we chew betel nut or just merely rest. When we went home, we felt fine. But these days, we work at seven but we need to leave the rice fields by 11 because the heat is different. It is painful on our skin.207

The fisheries and aquaculture sector is also greatly affected by climate change. Rising sea surface temperatures and changing ocean circulation,208 ocean acidification and coral bleaching,209 and the alteration of the physiological processes and the seasonality of biological rhythms that alter food webs and fish production in the coral triangle all contribute to the worsening experience of fisherfolk.210 Significant impacts on fisherfolk include reduced fish abundance and catch, damage to fishing gear and fishing infrastructure, and increased risks to safety – all threatening the livelihood of fisherfolk. As Pablo Rosales narrated, fisherfolk “were deprived of our livelihood because the water becomes warmer, which resulted in fish kill. Of course, that is our livelihood, and if these occur, that is a problem to us.”211 Elma Reyes, a fish vendor whose husband is a fisherman, recounted that:

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207 Id. at 181.
209 Ibid.
210 Ibid.
My child once asked me, “Mama, it’s already Holy Week, why is the weather still bad? It wasn’t like this before.” I said, “Yes, child, this is what I have been taught at the seminar. This is what they called climate change.” We know that every Holy Week the sea would be very still. Now it’s different. It’s been a week now that my husband could not go out to the sea. It has a huge effect on me. It ruins our budget. Sometimes we have no choice but to use our child’s allowance, and we have no way of replacing it. Where do we get the money?212

Workers in urban areas are not spared. Ernesto Cruz, president of the National Confederation of Transport Workers Union, narrated that jeepney drivers in urban areas who used to work for twelve (12) to fourteen (14) hours a day could now only work for a few hours in the morning during the summer months. The intense heat compounded by the heavy traffic and vehicle emissions makes it too dangerous to work.213 Meanwhile, they can not ply their routes during heavy rains because floodwaters would damage their engines. “Heat and rain are both enemies.”214 These workers, who could barely make enough to sustain a family of five even when they were driving twelve-hour shifts, are left with almost nothing to feed their families.

Indubitably, the impacts of climate change rob individuals and communities of their ability to make a living. It places a heavy burden on workers across industries who face job insecurity, lower income, poor working conditions, and increased poverty.

vi. Right to Adequate Housing

The right to housing is enshrined in the ICESCR as a component of the right to an adequate standard of living.215 The CESCR clarifies that the right to housing “should not be interpreted in a narrow or restrictive sense which equates it with, for example, the shelter provided by merely having a roof over one’s head or views shelter exclusively as a

213 Id. at p. 61.
214 Id. at 163.
215 ICESCR, Article 11 (1).
commodity. Rather it should be seen as the right to live somewhere in security, peace and dignity.” Thus, adequate housing should include: legal security of tenure; availability of services, materials, facilities and infrastructure; affordability; habitability; accessibility; location; and cultural adequacy. Climate change denies people of all of these. Particularly, the IPCC has stated that coastal settlements and low-lying island States will be directly impacted by sea level rise and storm surges. Eroded livelihoods and shelters in the aftermath of disasters will propel migrants to move to informal settlements in hazardous areas. The former Special Rapporteur on adequate housing cautions that the poor, already living in danger zones, are most especially threatened by these impacts.

In the Philippines, while the right to adequate housing is recognized under Article XIII Section 9 of the Constitution, climate change is driving internal displacement and homelessness. This is experienced by around 60 percent of the Philippine population living in the 832 coastal municipalities and 25 coastal cities throughout the country. In Marinduque, sea level rise and soil erosion have displaced coastal communities. With the ocean eating up the coast, residents in these communities felt unsafe, leading many to relocate. In the Verde Island Passage, islets that served as natural barriers have been slowly submerging, increasing the coast’s vulnerability to storm surges. Fisherfolk are the most adversely affected. Pablo Rosales, chairperson of Pagkakaisa ng mga Samahang Manggagisa, “Pangisda Pilipinas”, related that:

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217 CESC, General Comment No. 4.
218 IPCC, AR5 WGII.
220 Ibid.
222 Rolando Jusue, Provincial Gov’t Environment and Natural Resources Office – Marinduque, June 2018, Key Informant Interview – Verde Island Passage.
223 Ibid.
When unusual calamities occur, we used to say, why is there signal number 4, when before signal number 3 seldom hit the Philippines. But now, if it hits, almost all houses near the shores are washed away, and even the implements of fishermen get damaged, because fishermen generally live near the shores and they have all their implements near them. Thus, when the typhoon gets stronger, waves go bigger, fishing boats get damaged, houses are also damaged, we also lose our livelihood.

One of the major burdens we are facing is we do not have permanent houses because we are fishermen. They said our residential lots are considered danger zones, that’s why the tendency is to clean us up, we are moved to far-flung areas for the sake of what they say is keeping us away from danger. Because it is a danger zone and climate changes, typhoons are stronger, waves are stronger, we are told to leave our houses. The problem is we are fishermen. We have many experiences that some of our members were told to evacuate, some were transferred to the foot of mountains in Bulacan, mountain in Cavite. But still, they return to the coastal areas, live in their boats, find shelter and sleep there, then, they go home to their houses in Cavite or Bulacan.

Sometimes they cannot take it any longer, they sell their houses in Bulacan or their house in Cavite for them to fish again. We think the worsening poverty experienced by fisherfolks, one of the biggest factor is climate change. Our homes were taken away from us…

The right to adequate housing is also drastically impacted by extreme weather events. In the aftermath of Typhoon Haiyan, people were forced to stay in evacuation centers for prolonged periods. Most of these centers were overcrowded and poorly resourced. Some stayed in tents and other temporary structures for months. Nicolas Starkey, a survivor

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226 UNHCR, 07 November 2014, Typhoon Haiyan Anniversary: Three generations under one roof in tent city, last accessed on 20 November 2019 at
of Typhoon Haiyan, had to live with relatives in a tent. The tent had no floor and was frequently inundated by mud and rainwater. Although the tent was only intended to fit two families, five lived in it. They lacked the resources to rebuild quickly, so they lived in dreadful conditions.\textsuperscript{227} The worst is when survivors of extreme weather events have to rebuild their homes as consecutive typhoons repeatedly beset them.

vii. Right to Preservation of Culture

The ICESCR expressly recognizes the right of every individual to “take part in cultural life.”\textsuperscript{228} Meanwhile the ICCPR guarantees that “\textit{in those States in which ethnic, religious or linguistic minorities exist, persons belonging to such minorities shall not be denied the right, in community with the other members of their group, to enjoy their own culture, to profess and practice their own religion, or to use their own language.}”\textsuperscript{229} Other international instruments including the Convention Concerning the Protection of the World Cultural Heritage, Convention for the Safeguarding of the Intangible Cultural Heritage, Convention Concerning the Protection of the World Cultural and Natural Heritage, Universal Declaration on Cultural Diversity, among others, recognize the importance of cultural rights.

In the Philippines, the Constitution mandates the State to protect the rights of indigenous cultural communities to their ancestral lands to ensure their economic, social, and cultural well-being,\textsuperscript{230} while Republic Act No. 7356\textsuperscript{231} recognizes that “culture is a manifestation of the freedom of belief and of expression and is a human right to be accorded due respect and allowed to flourish.”\textsuperscript{232}

\hspace{1cm} \textsuperscript{\textit{227}} https://www.unhcr.org/afr/news/latest/2014/11/545cbe276/typhoon-haiyan-anniversary-three-generations-under-roof-tent-city.html
\hspace{1cm} \textsuperscript{\textit{228}} Ibid.
\hspace{1cm} \textsuperscript{\textit{229}} ICESCR, Art 15.
\hspace{1cm} \textsuperscript{\textit{229}} ICCPR, Art 27.
\hspace{1cm} \textsuperscript{\textit{230}} Article XII, Section 5, 1987 Philippine Constitution. See also Article II, Section 22.
\hspace{1cm} \textsuperscript{\textit{231}} An Act Creating the National Commission for Culture and the Arts, Establishing a National Endowment Fund for Culture and the Arts, and for Other Purposes [Law Creating the National Commission for Culture and the Arts] (1992).
\hspace{1cm} \textsuperscript{\textit{232}} Id. at Title I, Section 2.
The preservation of culture, however, is in danger because of the impacts of climate change. Indeed, the Special Rapporteur in the field of cultural rights warns that “the cultural identities and traces of entire nations may be at risk, facing the threat of cultural extinction, including through the total disappearance of human settlements and related ancestral cultures.”

Katherine Lofts testified that climate change particularly impacts cultures closely connected with the natural environment. Traditional livelihoods and ancestral traditions of many indigenous peoples’ communities which are dependent on natural resources are threatened or may even be extinguished by climate change. Furthermore, she also maintained that climate change related displacement and migration also infringe upon the right to culture. Cultural practices and social cohesion are disrupted when communities are dispersed and forced to relocate.

Bae Inatlawan, the overall chieftain of the Daranghuyan Ancestral Domain in Mt. Kitanglad in southern Philippines, highlighted the value of the environment to her tribe, sharing that they regularly perform rituals and prayers to appease the spirits for sins committed against the environment. However, some of their cultural practices, including planting rituals that depend on cues from nature, have been rendered unreliable and ineffective due to the erratic changes in weather.

Rica Diamzon Cahilig, a member of the Aeta-Ambala indigenous community, shared her fear of losing the cultural traditions of her people because their natural resources could no longer provide the food and medicine they have relied on since time immemorial. The same is true for the tradition of Baki – a ritual practiced by Ifugao people before planting and after harvesting to prevent pests from eating rice grains. Dalia Naliw, an Ifugao culture bearer, explains that “the Baki tradition is observed by not taking a bath for a month”

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234 Id. at 21.
236 Bae Inatlawan, Northern Mindanao Community Dialogue, p. 10.
237 Bae Inatlawan, Focus Group Discussion in Northern Mindanao, p. 40.
which has become unbearable because of the scorching heat. With these, it is clear that climate change adversely affects the Filipinos’ cultural rights and threatens their cultures’ very existence.

viii. Right to Self-Determination and the Right to Development

Article 1 of the ICCPR and the ICESCR declare that “All peoples have the right of self-determination. By virtue of that right they freely determine their political status and freely pursue their economic, social and cultural development.” Related thereto is the right to development. Article 1 of the Declaration on the Right to Development states that “the right to development is an inalienable human right” and that “the human person is the central subject of development.” The Rio Declaration on Environment and Development (Rio Declaration) further puts the human being “at the center of concerns for sustainable development,” encompassing environmental protection.

Climate change prevents the realization of the right to self-determination and development when victims thereof are trapped in an endless cycle of dealing with its adverse impacts. Their lives are spent surviving one climate change impact after another, effectively nullifying any opportunity they may have to participate in, contribute to, enjoy and pursue their political, economic, social and cultural development. Veronica Cabe, a survivor of typhoon Ketsana (local: Ondoy), articulated this seemingly endless cycle of being victimized by extreme weather events in the following sentiment:

*Our daily life was disrupted. Unfortunately, our sufferings did not end with Ondoy. The story didn’t end with Ondoy. Unfortunately, the suffering that we have through, continued at the time when we were rebuilding our live. The series of floods brought about by monsoon rains have caused flooding. Again, I clearly remember three (3) incidents of flooding. We lost everything*
again, everything that mattered to us. After years of struggling, rebuilding and recovering, I knew the typhoon would come in and wreck everything we have put up over the years. When would this situation, when would this devastation stop? How can we survive? When would this process of recovering and rebuilding end?\footnote{TSN of the Fifth Inquiry Hearing dated 6-7 November 2018, p. 111.}

A fellow Typhoon Ketsana survivor, Manuel “Ka Noli” Abinales, echoed the experience of the vicious cycle:

...Ondoy did not seem to be a “one-shot-deal” because, I remember, after Ondoy, we were still recovering when typhoon Falcon happened and, then, Pedring in 2011. Then in 2012, we had habagat (southwest monsoon). We did not understand the actions of the nature anymore.

This is the usual scenario: when it rains and will cause flashflood, we will evacuate to the evacuation centers. When the rain stops, people will get bored in the evacuation center and will decide to go out, then attempt to return to their homes near the rivers when the floods subside; then it will rain again, and the people will evacuate again. That happened four (4) times in our community in 2012 because of southwest monsoon. I even received text messages about people getting tired of the repeated experience. We have evacuated, then returned home, then evacuated again. It’s like playing patintero [similar to a game of tag]. I do not know anymore how we are supposed to move in the community.

Modesty aside, we continue to make boats and we have given boats to those areas that are usually flooded. But our efforts are not enough. People living near the rivers are growing in numbers. Typhoons are getting stronger, floods are getting more severe. When will this end? What will happen to the people? Do we just need to undertake rescue operation or must this end? There must
be a long-term solution to this problem. That is all. Thank you for your time.\textsuperscript{243}

In a macro analysis, these individual experiences taken together exacerbate underdevelopment and hampers development. Susceptibility to repetitive extreme weather events render development efforts to alleviate poverty an exercise in futility. These in turn, have catastrophic effects on many direct and indirect factors of economic growth, potentially undoing current progress and undermining prospects.

ix. Right to Equality and Non-Discrimination

Article 2 (1) of the ICCPR and Article 2 (2) of the ICESR guarantee non-discrimination in the enjoyment of rights of all persons. Climate change infringes on the right to equality and non-discrimination because, as the IPCC reports, people who are already socially, economically, or otherwise marginalized are the most vulnerable to its impacts due to their high dependence on natural resources, heightened exposure to climate change impacts, and lack of resources to adapt.\textsuperscript{244} These vulnerable sectors include women, children, indigenous peoples, older adults, people living in poverty, and members of the LGBTQIA+, among others. Indeed, segments of the population already in vulnerable situations owing to geography, poverty, gender, age, indigenous or minority status, and disability, among others, are the ones most acutely affected.\textsuperscript{245}

a. Women

The IPCC stresses that “existing gender inequalities are increased or heightened by climate-related hazards” and that these “gendered impacts result from customary and new roles in society, often entailing higher workloads, occupational hazards indoors and

\textsuperscript{243} TSN of the Second Inquiry Hearing dated 23-24 May 2018, p. 244-245.
\textsuperscript{244} IPCC, AR5 WGII; Joint Summary of the Amicus Curiae dated 19 March 2018, p. 28.
outdoors, psychological and emotional distress, and mortality in climate-related disasters.” Women, particularly pregnant women, older women, and girls, are left more defenseless during different phases of natural disasters. In fact, mortality due to disasters, including droughts, floods and storms, is higher among women than men.

Climate change impacts Filipino women in several significant areas including agriculture production, climate-induced migration, and post-disaster gender-based violence. The Philippine Commission on Women lists gender-based discrimination aggravated by climate change as follows: “insecure land and tenure rights; lack of access to and control of economic and natural resources; limited opportunities to participate in environmental decision-making; lack of access to markets, capital, training and technologies; multiple burden of women being the primary caregivers of affected family members, additional income earners, and community workers; exposure to contracting diseases due to limited reproductive health services and facilities and unhygienic water and lack of private spaces for personal hygiene needs; and gender-based violence risks in the form of physical abuse, rape and sexual harassment in evacuation centers and sexual exploitation in the form of sex trafficking and post-disaster prostitution.” Over the last two decades, 15 times as many infants have died in the 24 months after typhoons than in the typhoons themselves. Of those infants, 80% were girls.

Climate impacts on women from rural areas are even more severe because (i) women have fewer assets to fall back on in case of crop failure due to extreme weather events; (ii) women are tasked with managing household expenses and often fall into chronic indebtedness to bridge resource gaps; and (iii) women prioritize the food needs of male household members and children during food shortages. This often pushes women to migrate overseas to

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246 IPCC, AR5 WGII.
247 Ibid.
supplement the family income, making them more vulnerable to trafficking, sexual exploitation, and other abuses.

b. Children

The Committee on the Rights of the Child, in its General Comment No. 15, states that climate change “is one of the biggest threats to children’s health and exacerbates health disparities.” The United Nations Children Fund (UNICEF) even declares that “there may be no greater, growing threat facing the world’s children – and their children – than climate change.” The IPCC confirms that children have an increased risk of climate-related injuries and illnesses as they are more vulnerable to diseases and food insecurity. Beyond immediate mortal dangers posed by extreme weather events, the right to access basic necessities like water, food and shelter disproportionately jeopardizes children.

Joni Pegram testified on the various climate-related impacts on child rights in the Philippines as follows:

_In the case of typhoon Haiyan, we know that almost six (6) million of the fourteen (14) million people affected were children. Although information on the final death toll is not available, the government did confirm that ninety-two percent (92%) of fatalities occurred in Leyte. And according to the 2010 census, children between the ages of ten (10) and fourteen (14) years old comprise the largest group on this province... The next two (2) largest age group are between five (5) and nine (9) and from zero (0) to four

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251 Ibid. citing PhilCCA WG2
253 UN Committee on the Rights of the Child (CRC), General comment No. 15 (2013) on the right of the child to the enjoyment of the highest attainable standard of health (art. 24), CRC/C/GC/15 (17 April 2013).
255 IPCC, AR5 WGII.
(4). We are looking at a large number of children among the highly affected. And drowning was found to be the principal cause of these deaths.

National outcomes in their future livelihoods...Modelling suggests that an estimated additional seventy thousand (70,000) Filipino children will be malnourished by 2050 due to the impact of climate change, representing an increase of four percent (4%)...

Now if we look at disease and the right to health, children are also highly susceptible to many infectious waterborne diseases that become more prevalent in the context of droughts, floods, and extreme weather, particularly when damage to essential water and sanitation infrastructure occurs. Diarrheal diseases are another major cause of mortality for children, responsible for over half a million deaths of children under five (5) in 2015, the fourth leading cause of death under five (5)-year-olds in the Philippines.

Rising temperatures also increase the incidence of vector-borne diseases, such as malaria and dengue fever. The global burden of these diseases is already heavily concentrated on children. Seventy percent (70%) of all deaths from malaria in 2015 occurred in children under the age of five (5). The World Health Organization projects that climate change will cause an additional 60,000 deaths from malaria among children under the age of fifteen (15) by 2030. In the Philippines, malaria is already endemic in certain province, but WHO projects over one hundred fifty (150) million people will be at risk of malaria by 2017, under both high and low emission scenarios.

Climate change can exacerbate air pollution. It does not cause air pollution, but it can exacerbate the toxicity of certain pollutants, including ozone, and it increases the frequency of wildfires and drought. Air pollution causes approximately six hundred thousand (600,000) deaths of children under five (5) every year. Many more suffer from disease and disability with lifelong consequences and children, again, are more susceptible to air pollution than
adults for many reasons. They have smaller airways, they have a developing immune system, and these are easily overwhelmed by infections. They breathe more quickly than adults and they take more air per unit of body weight as well. Acute respiratory infection has been identified as one of the top three (3) causes of mortality in children under five (5) in the Philippines.

The final impact is on the right to education. Climate change has been recognized as an emerging and persistent barrier to the right to education in the Philippines. Impacts include destruction of school infrastructure, loss of nutrition, which means that children find it hard to concentrate during the day, and loss of school days due to physical and mental health impact, and higher dropout rates due to pressure on household incomes, for example. The government has identified damages incurred from disasters as one of the key causes of shortages of classrooms and school materials as well. Typhoon Haiyan damaged or destroyed over three thousand (3,000) schools and day care center. Many large schools were also taken over as evacuation centers, and this resulted in a sudden disruption in education for more than a million preschool and school-aged children.257

c. Indigenous Peoples

The UN recognizes that indigenous peoples are at the “front lines of climate change” because they understand what climate change means for societies, ecosystems, and cultures as inheritors and practitioners of unique cultures.258 Despite their unique role in conservation, indigenous communities are uniquely at-risk because of the changing climate. Indigenous people are significantly impacted by climate change owing to their dependence on climate-sensitive resources and deep cultural relationships with the environment.259

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257 TSN of the Fifth Inquiry Hearing dated 6-10 November 2018, p. 4-6.
Between 14-17 million Filipinos belong to more than a hundred ethno-linguistic groups. Environmental degradation due to climate change doubly affects indigenous communities as the environment is a natural extension of their livelihood, survival, and cultural identity. For instance, the Mangyans, an indigenous group that relies on fruit farming for their livelihood, have been heavily affected by climate change. Due to extreme heat, the group has been unable to produce and sell their usual agricultural products - bananas and coconuts. Often, banana trees wilt and die or produce fruits that are too thin to sell while coconut trees bear fruits with no coconut meat.

Climate change has also caused the disappearance of native species in indigenous lands. A representative from an indigenous community in southern Philippines, Bae Priscilla Cariaga, reported that Gangis, a type of beetle which is a staple in their diets, has become scarce due to changes in the onset and duration of the summer season. Droughts and water shortage has also become a problem in indigenous lands. Agricultural yield is reduced, water and sanitation are sacrificed, and health is compromised. Further, community members, particularly the Mangyans, have tussled amongst themselves in the struggle to get water from drying springs.

d. Older Persons

The UN Principles for Older Persons recognizes the rights of older persons to adequate food, water, shelter, clothing and health care. It states that “older persons should be able to live in environments that are safe and adaptable to personal preferences and changing capacities.” Older adults are among the most vulnerable during extreme weather events,
particularly when separated from their families and caregivers. Immobility, difficulty crossing terrain, pre-existing conditions, and declining health often lead to inadequate access to food, water, safe housing, and healthcare.

In November 2020, a 78-year-old man was reported to have suffered a stroke and died as he was being evacuated during Typhoon Goni (local: Ineng). In the same month, Typhoon Vamco (local: Ulysses) claimed the lives of at least three older persons including one who died after slipping and falling to the floor, and another who was killed after a tree fell on his house due to strong winds. A few weeks later, during Tropical Storm Krovanh (local: Vicky) a 67-year-old woman and 62-year-old man died due to a landslide caused by the storm. Meanwhile, older persons who are able to relocate often contract illnesses in evacuation centers.

The livelihoods of older adults are likewise affected by climate change. Older persons are forced to rely on a government pension or financial support from family. However, in some southern Philippines provinces, older persons are excluded from cash-for-work schemes despite having had gainful employment prior to typhoons. Loss of documentation also poses a challenge to accessing state-subsidized healthcare benefits, with some older persons being overlooked for support to meet aging and pre-existing conditions.

Social and cultural activities of older persons are also limited by climate change. In the province of Romblon for instance, the local government has limited the participation of

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268 Community Dialogue in Alabat, Quezon, April 2018. – Constancia Lopez

269 Fact-finding mission in Verde Island Passage.

270 ACAPS Data Review

271 Ibid.
older persons in outdoor activities due to the warning of local government social workers on the health effects of extreme heat on them.272

e. People Living in Poverty

According to the former Special Rapporteur on extreme poverty and human rights, “people in poverty tend to live in areas more susceptible to climate change and in housing that is less resistant; lose relatively more when affected; have fewer resources to mitigate the effects; and get less support from social safety nets or the financial system to prevent or recover from the impact. Their livelihoods and assets are more exposed and they are more vulnerable to natural disasters that bring disease, crop failure, spikes in food prices, and death or disability.”273

In 2018, 16.6% of the Philippine population already lived below the national poverty line.274 This will continue to rise if the impacts of climate change are not mitigated. An analysis released by the Asian Development Bank states that:

“... disasters can push non-poor households into poverty and the poor even deeper into poverty. In terms of relative mobility, our findings suggest that households that experienced typhoons are more likely to fall into a lower income quantile than those who didn’t experience typhoons. In terms of absolute mobility, the incomes of households that were hit by typhoons are more likely to grow more slowly than the incomes of households that were not hit. These results are intuitive as disasters bring damage to life, property, and livelihood. As these damages affect the households’ capacity to cope and recover, a disaster can push families into a downward income spiral.”275

272 Fe D. Firmalo, Head of the Office of Senior Citizens Affairs - Odiongan, Romblon, Community Dialogue, Verde Island Passage.
The country’s poorest communities are especially vulnerable because of the shortage of socio-economic resources necessary to cope with climate impacts. The poor are more likely to forego food, health, or education in order to finance their recovery from climate disasters.276

The loss of productive assets and livelihood is even more pronounced among farmers and fisherfolk who are highly dependent on natural resources.277 The fisheries sector, comprising about 70% of the Philippine population, “are considered ‘poorest of the poor’”.278 Marginalization, insecure housing, limited assets, high costs of fishing equipment, and reliance on uncertain production systems all contribute to the poverty of fisherfolk. This is exacerbated by climate change – the underlying cause of a decline in marine capture and consequently, the decrease in their income.279

The agricultural sector is similarly affected. An estimated 413,456 farmers were directly affected by El Niño-associated dry spells during the last El Niño period.280 As agriculture is highly dependent on a stable environment, climate change impacts – whether prolonged droughts or intense rain and flooding - disrupt crop productivity and directly affects the farmer and farm workers’ income. Increased poverty, dangerous working conditions, lack of access to basic needs, food insecurity, and even loss of tradition all infringe on the Filipino farmers’ human rights.

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277 World Bank, Getting a Grip, 24.
People living in informal urban settlements are also affected. They account for 45% of the Philippines’ urban population and they are particularly vulnerable to floods due to less secure infrastructure, reduced access to clean water, and lack of health insurance.281

f. LGBTQIA+

The LGBTQIA+ community, because of social stigma and discrimination, is especially vulnerable to exclusion, violence, and exploitation.282 Their already vulnerable situation is aggravated by the impacts of climate change as members of the LGBTQIA+ community are frequently denied access to various social opportunities and infrastructure needed to cope with the impacts of climate change.283

There is minimal data on LGBTQIA+ rights in the Philippines, particularly in the context of climate change. Much of what has been said remains anecdotal. For instance, Jean, a transgender woman from Tacloban, Leyte, recounted that she was compelled to drop her name and revert to her given name, Arthur S. Golong, to be listed as a recipient of government relief goods.284 Moreover, according to Jean, the livelihood programs initiated by the government were not gender-inclusive, recognizing only cisgender orientations285

The lack of data on the impact of disasters caused by climate change on LGBTQIA+ people worldwide exacerbates their plight, making them “largely invisible in relief and development programs.”286

x. Right to Safe, Clean, Healthy, and Sustainable Environment

281 World Bank, Getting a Grip.
285 Id., at 5.
On 8 October 2021, during its forty-eighth session, the UNHRC adopted the resolution on the Human Right to a Safe, Clean, Healthy and Sustainable Environment. The resolution “recognizes the right to a safe, clean, healthy and sustainable environment as a human right that is important for the enjoyment of human rights.”\footnote{UN Human Rights Council (2021) Draft Resolution: Promotion and protection of all human rights, civil, political, economic, social and cultural rights, including the right to development. A/HRC/48/L.23.1 (accessed at https://undocs.org/a/hrc/48/l.23/rev.1.)} This recognition is borne out, among others, of the acknowledgement of the “the impact of climate change, the unsustainable management and use of natural resources, the pollution of air, land and water, the unsound management of chemicals and waste, the resulting loss of biodiversity and the decline in services provided by ecosystems interfere with the enjoyment of a safe, clean, healthy and sustainable environment, and that environmental damage has negative implications, both direct and indirect, for the effective enjoyment of all human rights.”\footnote{Ibid.}

The recognition of this human right affirms the Filipinos’ constitutionally-guaranteed right to a balanced and healthful ecology in accord with the rhythm and harmony of nature.\footnote{1987 Philippine Constitution Article II, Section 16,} However, with climate change, this rhythm and harmony has been disrupted. Lowell Factor recounted how corals, once “big and colorful” and visible from his house, have been reduced by 80% due to runoff flooding.\footnote{Lowell Factor, Fact-Finding Mission Verde Island Passage, p.32} This example of loss of biodiversity, together with other instances of degradation of ecological processes previously discussed, diminishes the capacity of the environment to provide life-sustaining services, consequently impacting human well-being and the enjoyment of human rights. Dalia Naliw, a culture bearer from Ifugao, thus shared:

> Within our surroundings, we could get fruits, herbal medicines, and vegetables that sprouted in our yard before. We used them and cooked them for our viand. This time, these are slowly diminishing.\footnote{TSN of the Third Inquiry Hearing dated 29-30 August 2018, p. 183.}
This disruption in the rhythm and harmony of nature may best be summed by Felix “Ka Jhun” Pacua, Jr., a farmer and national spokesperson for Pambansang Katipunan ng Makabayan Mambubukid, when he said that “the weather is getting senile.”

xi. Rights of Future Generations and Intergenerational Equity

Numerous international instruments recognize intergenerational equity. Among these are the 1992 Rio Declaration, which stresses that “the right to development must be fulfilled so as to equitably meet developmental and environmental needs of present and future generations;” and the UNESCO declaration which states that “the present generations should strive for sustainable development and preserve living conditions, particularly the quality and integrity of the environment” so that the future generations benefit from the Earth’s ecosystems. The UNFCCC also calls on Parties to “protect the climate system for the benefit of present and future generations of humankind, on the basis of equity and in accordance with their common but differentiated responsibilities and respective capabilities.” More recently, the Paris Agreement, emphasized the responsibility of States to consider intergenerational equity in taking action to address climate change. In the Philippines, the concept of intergenerational equity is well-entrenched in the right to a balanced and healthful ecology that is constitutionally guaranteed for present and future generations.

Climate science has established with certainty that the impacts of climate change are long-term and widespread, and that GHGs persist in the atmosphere for centuries – thus denying future generations of their “right to inherit the same diversity in natural and cultural resources enjoyed by previous generations and to equitable access to the use and benefits of these resources.” This has been recognized by the UN General Assembly as

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292 Id. at p. 77.
293 Rio Declaration, Principle 3.
295 UNFCCC
early as 1988, when it expressed its concern “that certain human activities could change global climate patterns, threatening present and future generations with potentially severe economic and social consequences.”

Climate change goes against the principle of intergenerational equity as it unfairly shifts burdens onto future generations. It “is an inherently intergenerational problem with extremely serious implications for equity between ourselves and future generations and among communities in the present and the future.” Former UN Secretary-General Ban Ki-Moon noted in his report on intergenerational solidarity that “fairness between generations is embedded in the concept of sustainable development.” Even the religious sector has recognized the concept of intergenerational equity. In his encyclical, Laudato Si’, Pope Francis makes various references to “justice between generations”. He instructs that:

The notion of the common good also extends to future generations. The global economic crises have made painfully obvious the detrimental effects of disregarding our common destiny, which cannot exclude those who come after us. We can no longer speak of sustainable development apart from intergenerational solidarity. Once we start to think about the kind of world we are leaving to future generations, we look at things differently; we realize that the world is a gift which we have freely received and must share with others. Since the world has been given to us, we can no longer view reality in a purely utilitarian way, in which efficiency and productivity are entirely geared to our individual benefit. Intergenerational solidarity is not optional, but rather a basic question of justice, since the world we have received also belongs to those who will follow us.

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299 IPCC, AR5 WGII, p. 926.
The deleterious impacts of climate change go beyond the specific rights of the groups of persons and sectors discussed above. The narratives and stories they weave are more than enough to understand the harrowing situation of the Filipino people who have suffered, will continue to suffer, and have yet to suffer as they are deprived of their human rights by the myriad effects of climate change.

VIII. DUTY OF STATES TO PROTECT HUMAN RIGHTS

A. General Duty

States are the primary duty-bearers for upholding human rights obligations under treaties and customary international law, the rules of which are laid out under the International Bill of Human Rights and other core universal human rights treaties. In general, States are obliged to respect, protect, and fulfill human rights. A State’s duty to respect prohibits it from interfering or curtailing the enjoyment of human rights. The obligation to protect requires States to adopt and implement legislative, administrative, or judicial measures to prevent human rights violations and abuses and ensure their effective implementation. Finally, the duty of States to uphold and fulfill human rights involves

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303 See the Memorandum for the Petitioners (dated 19 September 2019 and received by the Commission on the same date) for more narratives and discussion on these rights and vulnerable groups. The Petitioners also claim that their discussions “do not represent all of the human rights harms. Continued research and monitoring are necessary to understand the full scope of the climate crisis unfolding in the country.” (p. 84, para. 8.43)
taking positive actions that encourage, enable, or provide essential services and infrastructure to facilitate the enjoyment of fundamental human rights.\textsuperscript{309}

The abovementioned duty necessarily includes that of regulating the conduct of non-State actors. Article 2 paragraph 1 of the ICCPR provides that:

\begin{quote}
\textit{“Each State Party to the present Covenant undertakes to respect and to ensure to all individuals within its territory and subject to its jurisdiction the rights recognized in the present Covenant, without distinction of any kind, such as race, colour, sex, language, religion, political or other opinion, national or social origin, property, birth or other status.”}
\end{quote}

The UNHRC states that this obligation can only be fully satisfied if individuals are also protected from abuses by non-State actors.\textsuperscript{310} The obligation to protect human rights from the abuses of non-State actors is made especially significant by the global expansion of private enterprises, which highlights the impact of businesses on human rights.\textsuperscript{311}

On 21 March 2011, the UN issued the Guiding Principles on Business and Human Rights (UNGP),\textsuperscript{312} providing a framework on business and human rights built on three pillars: (1) the State duty to protect human rights; (2) the corporate responsibility to respect human rights; and (3) the imperative of providing access to remedies for victims of human rights violations and abuses.

\textsuperscript{309} International Human Rights Law: Nature of Obligations.
\textsuperscript{310} Human Rights Committee, ‘General Comment No. 31: The Nature of the General Legal Obligation Imposed on States Parties to the Covenant’ (2004), CCPR/C/21/Rev.1/Add. 1326, para.8.
\textsuperscript{312} UNGP
The UNGP did not create new State obligations, but codified existing standards and practices for States and businesses, elaborated their implications, and integrated them within a “single, logically coherent and comprehensive template.”\textsuperscript{313}

The UNGP provide that States must fulfill their duty to protect human rights by creating laws, policies, and regulations to ensure that businesses respect human rights and refrain from committing abuses. States must provide effective judicial and non-judicial remedies for victims who seek accountability for abuses by businesses, thus:

\begin{quote}
“The State duty to protect is a standard of conduct. Therefore, States are not per se responsible for human rights abuse by private actors. However, States may breach their international human rights law obligations where such abuse can be attributed to them, or where they fail to take appropriate steps to prevent, investigate, punish and redress private actors’ abuse. While States generally have discretion in deciding upon these steps, they should consider the full range of permissible preventive and remedial measures, including policies, legislation, regulations and adjudication. States also have the duty to protect and promote the rule of law, including by taking measures to ensure equality before the law, fairness in its application, and by providing for adequate accountability, legal certainty, and procedural and legal transparency.”\textsuperscript{314}
\end{quote}

The UNGP provide that States should set out a clear expectation that all business enterprises domiciled in their territory must respect human rights.\textsuperscript{315} This expectation should cover all aspects of business operations. This may involve requiring corporations to fully disclose their global operations, including the operations of their subsidiaries.\textsuperscript{316} Thus,

\begin{itemize}
\item \textsuperscript{313} Id. at p. 4
\item \textsuperscript{314} UNGP, Commentary on Principle 1
\item \textsuperscript{315} UNGP Principle 2
\item \textsuperscript{316} UNGP Principle 2 commentary. Principle 3 (d) Encourage, and where appropriate require, business enterprises to communicate how they address their human rights impacts
\end{itemize}
States should provide guidance to business enterprises on how to respect human rights, and to encourage compliance, States should enforce laws that require enterprises to do so.\textsuperscript{317} Whenever States contract with or legislate for business enterprises to provide services that may impact the enjoyment of human rights, States should exercise adequate oversight in order to meet their international human rights obligations.\textsuperscript{318}

Enterprises have a responsibility to respect human rights under the UNGP. States must operationalize how enterprises are to meet the requirements for fulfilling the said responsibility. This may be comprised of regulations requiring enterprises to put in place policies and processes that include: (a) A commitment to meet their responsibility to respect human rights; (b) A human rights due diligence process to identify, mitigate and account for how they address their impacts on human rights; and (c) Processes to enable the remediation of adverse human rights impacts they cause or to which they contribute.\textsuperscript{319}

Generally, the jurisdiction of States to enact protective measures are limited within their own territories. Some may equate this to the inability of States to exact accountability for human rights abuses committed abroad by companies domiciled within their territories. However, the duty of States to prevent human rights abuses may extend beyond its territory as applied in the case of Al-Skeini v. UK.\textsuperscript{320} The UNGP conveys the view that States are allowed to regulate the behavior of private actors with respect to their impacts on human rights abroad.

\textbf{“At present States are not generally required under international human rights law to regulate the extraterritorial activities of businesses domiciled in their territory and/or jurisdiction. Nor are they generally prohibited from doing so, provided there is a recognized jurisdictional basis. Within these parameters some human rights treaty bodies recommend that}
home States take steps to prevent abuse abroad by business enterprises within their jurisdiction.”

The customary international law rule of *sic utere tuo ut alienum* is also a rule that imposes upon States a duty to prevent extraterritorial harm. States must not let anything within their territory or control harm other States or their citizens. This principle has been effectively applied to human rights by the Inter-American Court of Human Rights. The Inter-American Court of Human Rights explained in its Advisory Opinion that when a State causes transboundary harm to the citizens of another State, the individuals whose rights are violated are understood to be under the control of the State that caused the damage, if there is a causal connection between the action and the negative impact. This theory is founded on the idea that the State in whose territory or under whose jurisdiction the activities were carried out has effective control over them. States can prevent them from curtailing the enjoyment of human rights by people outside its borders.

The Advisory Opinion further says that States have a responsibility to ensure that activities under their jurisdiction or control, whether their own or those of non-State actors, do not harm people in other countries or areas outside their national jurisdiction, and to use all their available resources to do so. It states:

“The obligations to respect and to ensure human rights require that States abstain from preventing or hindering other States Parties from complying with the obligations derived from the Convention. Activities undertaken within the jurisdiction of a State Party should not deprive another State of the ability to

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321 UNGP Principles, Commentary on Guiding Principle 2
324 IACHR Advisory Opinion 23/17
ensure that the persons within its jurisdiction may enjoy and exercise their rights under the Convention. The Court considers that States have the obligation to avoid transboundary environmental damage that can affect the human rights of individuals outside their territory.”

The Inter-American Court of Human Rights held that the jurisdiction of States concerning the protection of human rights under the American Convention is not limited to their territorial space:

“In international law, the bases of jurisdiction are not exclusively territorial, but may be exercised on several other bases as well. In this sense, [...] "under certain circumstances, the exercise of its jurisdiction over acts with an extraterritorial locus will not only be consistent with but required by the norms which pertain." Human rights are inherent in all human beings and are not based on their citizenship or location. “Under Inter-American Human Rights Law, each American State is obligated therefore to respect the rights of all persons within its territory and of those present in the territory of another State but subject to the control of its agents.” (Emphasis supplied.)

The No Harm Rule is another principle that is now considered as part of customary international law. It supports the view that States have an extraterritorial obligation to protect human rights. It provides that a State is duty-bound to prevent, reduce and control

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326 IACHR Advisory Opinion 23/17
328 Legality of the Threat or Use of Nuclear Weapons (Advisory Opinion) [1996] ICJ Rep 226 [29].
the risk of environmental harm to other States.\textsuperscript{329} This rule is equally applicable in the context of human rights and has been widely discussed and relied on by the Inter-American Court of Human Rights to explain jurisdiction in matters involving cross-border damages. Indeed, it advances that States have a general obligation to ensure that activities within their territory do not cause damage to the environment of another State and relates this concept to the general duty of States to protect human rights. It logically follows that States are obliged to act if activities in their territory cause serious human rights violations in the territory of another State.\textsuperscript{330}

The Maastricht Principles on Extraterritorial Responsibilities of States in the Field of Economic, Social, and Cultural Rights ("Maastricht Principles")\textsuperscript{331} address any potential confusion regarding a State’s extraterritorial jurisdiction. The Maastricht Principles are based on two main concepts that serve as primary guides in extraterritorial human rights obligations. These are:

1. That international human rights law requires that States must ensure that they respect, protect, and fulfill rights when conducting themselves in a way that has real and foreseeable effects on human rights beyond borders;\textsuperscript{332} and

2. That international law, particularly in economic, social, and cultural rights, demands States to realize rights extraterritorially through "international assistance and cooperation."\textsuperscript{333}


\textsuperscript{330} Krajewski (2018)


\textsuperscript{333} Ibid.
Finding its basis on varied sources of international human rights law\textsuperscript{334} and evolving international human rights jurisprudence recognizing exceptions to the territoriality aspect of jurisdiction under international law,\textsuperscript{335} the Maastricht Principles provide that a State’s human rights obligations extend beyond its borders.\textsuperscript{336} Thus, “all States have obligations to respect, protect and fulfill human rights, including civil, cultural, economic, political and social rights, both within their territories and extra-territorially.”\textsuperscript{337}

The extraterritorial application of the human rights obligation of States is further applied in the revised edition of the Organization for Economic Co-operation and Development (OECD)\textsuperscript{338} Guidelines for Multinational Companies (OECD Guidelines). An international instrument adopted by 49 countries in 2011, the OECD Guidelines\textsuperscript{339} promote responsible business conduct. It requires that States-parties create National Contact Points (NCP) which are offices tasked to promote adherence to the guidelines as a non-judicial grievance mechanism. The revised edition now includes a chapter on human rights consistent with the UNGPs.

\textsuperscript{334} Maastricht Principles, General Principle No. 6
\textsuperscript{335} Salomon & Seideman (2012)
\textsuperscript{336} However, the exercise of extraterritorial jurisdiction, according to the Maastricht Principles, is only proper where the State:
\begin{enumerate}
  \item has effective control over the territory or persons on that foreign territory;
  \item has brought about foreseeable effects on the exercise of its rights outside of its territory through its conduct; and
  \begin{enumerate}
    \item is either under an international obligation or in a position to exercise decisive influence to actively support the realization of people’s economic, social, and cultural rights outside of its territory. (Maastricht General Principle 9)
  \end{enumerate}
\end{enumerate}
\textsuperscript{337} Maastricht Principles, General Principle No. 3
\textsuperscript{338} The OECD is an intergovernmental organization founded in 1961 to stimulate economic progress and world trade.
The Committee on the Rights of the Child (CRC) and the CESCR have both issued General Comments\textsuperscript{340} declaring that States have an obligation to respect, protect, and fulfill human rights in the context of the extraterritorial activities of business. This obligation may be pursued, provided there is a reasonable link\textsuperscript{341} between the State and the conduct concerned\textsuperscript{342}. Furthermore, the CESCR reiterates that States are required to take steps to prevent human rights violations abroad by corporations domiciled within their territory and/or within their jurisdiction.\textsuperscript{343}

However, it should be noted that the States’ exercise of extraterritorial jurisdiction, following its human rights obligations, does not justify interference with the internal affairs of another State. Exceptional situations\textsuperscript{344} necessitating the exercise of extraterritorial jurisdiction must be examined in a restrictive manner, based on the specific circumstances of each case. The obligation to respect and ensure human rights does not allow States to act in violation of principles of international law, particularly that of non-intervention enshrined in the U.N. Charter.\textsuperscript{345}

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\textsuperscript{340} Committee on the Rights of the Child (CRC), General Comment No. 16 (2013) on State Obligations Regarding the Impact of Business Sector on Children’s Rights, UN Doc CRC/C/GC/16 (17 April 2013). Hereinafter referred to as CRC General Comment 16; Committee on Economic, Social and Cultural Rights (CESCR), General Comment No. 24 on State Obligations under the International Covenant on Economic, Social and Cultural Rights in the Context of Business Activities, UN Doc E/C.12/GC/24 (23 June 2017) Hereinafter referred to as CESCR General Comment 24.

\textsuperscript{341} A reasonable link, according to the CRC, exists “when a business enterprise has its center of activity, is registered or domiciled or has its main place of business or substantial business activities in the State concerned.”

\textsuperscript{342} CRC General Comment 16

\textsuperscript{343} CESCR General Comment 24


\textsuperscript{345} United Nations, Charter of the United Nations, 24 October 1945, 1 UNTS XVI, available at: https://www.refworld.org/docid/3ae6b3930.html [accessed 28 April 2022]
In other words, a balance must be maintained between respecting the sovereignty of States in handling their internal affairs in accordance with the principle of non-intervention and in requiring States to comply with their treaty obligations.\textsuperscript{346}

The universality principle of international law acknowledges that actions which are uniformly harmful to States and their subjects, necessitate the recognition of authority of all States to punish such acts wherever they occur, even if there is no relation between the State and the parties or the acts in question. This supports the view that the States' duty to protect is not confined to territorial jurisdiction.\textsuperscript{347} There is a rising consensus that this concept extends to abuses against human rights.\textsuperscript{348}

\textbf{B. Special Duty of States to Protect Human Rights in the Context of Climate Change}

Climate change directly and indirectly impacts the whole gamut of human rights under international law.\textsuperscript{349} The duty of States to protect human rights encompasses the impacts of climate change. The OHCHR maintains that “States (duty-bearers) have an affirmative obligation to take effective measures to prevent and redress these climate impacts, and therefore, to mitigate climate change and to ensure that all human beings (rights-holders) have the necessary capacity to adapt to the climate crisis.”\textsuperscript{350} Although human rights obligations concerning climate change are still evolving, various international laws, treaties, and principles already confirm that States have the responsibility to mitigate climate change impacts in a manner anchored on human rights, “irrespective of whether or not climate change effects can be construed as human rights violations. Human rights obligations provide important protection to individuals whose rights are affected by climate change.”\textsuperscript{351}

\textsuperscript{348} Ibid.
\textsuperscript{350} Id. at p. 2.
\textsuperscript{351} Relationship Between Climate Change and Human Rights Report.
Because it is generally viewed that climate change is a type of environmental harm, the human rights obligations in environmental harm also generally apply to climate change. The framework principles on human rights and the environment clarify three categories of State obligations: procedural, substantive, and special obligations towards those in vulnerable situations.

Procedurally, States are obliged to put safeguards in place, such as prior assessment of environmental impacts, dissemination of environmental information, full and informed participation by those affected, and effective remedies for States’ failure to comply with their obligations.

Substantively, States must adopt legal frameworks to protect against environmental harm that interferes with the enjoyment of human rights, including harm caused by State and non-State actors. States must strike a fair balance between environmental security and other legitimate societal interests, while ensuring that such a balance does not result in unjustified violations of human rights.

These principles must be similarly applied and operationalized when addressing climate change. Thus, States have the procedural obligations to:

1. Provide the public with accessible, affordable, and understandable information regarding the causes and consequences of the global climate crisis, including incorporating climate change into the educational curriculum at all levels;

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353 Safe Climate Report, 17.


355 Ibid.
2. Ensure an inclusive, equitable, and gender-based approach to public participation in all climate-related actions, with a particular emphasis on empowering the most affected populations, namely women, children, young people, indigenous peoples and local communities, persons living in poverty, persons with disabilities, older persons, migrants, displaced people, and other potentially at-risk communities;

3. Enable affordable and timely access to justice and effective remedies for all, to hold States and businesses accountable for fulfilling their climate change obligations;

4. Assess the potential climate change and human rights impacts of all plans, policies, and proposals, including both upstream and downstream effects (i.e., both production- and consumption-related emissions);

5. Integrate gender equality into all climate actions, enabling women to play leadership roles;

6. Respect the rights of indigenous peoples in all climate actions, particularly their right to free, prior, and informed consent; and

7. Provide strong protection for environmental and human rights defenders working on climate-related issues, from land use to fossil fuels. States must vigilantly protect defenders from harassment, intimidation, and violence.\textsuperscript{356}

Moreover, States have the substantive obligations to:

1. Abstain from all actions that infringe on a person's basic human rights as a result of their environmental consequences;

2. Establish climate change mitigation programs and implement punitive laws against environmental harm to protect basic human rights from being violated by third parties, particularly businesses (non-grant or denial of subsidies or incentives to carbon-intensive industries,

\textsuperscript{356} Safe Climate Report, 30.
regulation of carbon footprints left not only by private and state-owned companies but also by consumers, and so on are examples of these programs); and

3. Repeal and modify discriminatory policies that target vulnerable groups.

Finally, concerning vulnerable sectors, States have a general duty to consider additional protections and apply environmental laws without discrimination.

These principles on the three categories of State obligations must govern all of States’ climate actions, including obligations related to mitigation, adaptation, finance, and loss and damage.\(^{357}\)

The principles behind the three categories of State obligations are reflected in the Rio Declaration,\(^{358}\) which was adopted in 1992. The Rio Declaration consists of 27 principles defining the people's right to development and the States' obligation to protect the shared environment. Though non-binding by itself, the Declaration has been the source of standards to help guide States in fulfilling their obligations towards the environment. The principles in the declaration have been crystallized into a binding treaty, namely the Aarhus Convention.\(^{359}\) The European Union and 47 of the 50 European countries are parties to the convention, which is open to accession by non-EU States. Hence, the three categories of State obligations on the environment are not only obligatory to a good number of powerful States, but can also be binding on other States through the development of norms under customary international law\(^{360}\).

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\(^{357}\) Safe Climate Report, 18.

\(^{358}\) Rio Declaration


\(^{360}\) Sec. 102 of the Restatement of United States Foreign Relations provides that: International agreements create law for the states parties thereto and may lead to the creation of customary international law when such agreements are intended for adherence by states generally and are in fact widely accepted. (Emphasis added)
The United Nations High Commissioner for Human Rights\textsuperscript{361} also enumerates particular human rights obligations of States in the context of climate change. States have an obligation to ensure the widest possible enjoyment of economic, social and cultural rights under any given circumstance irrespective of the additional strain which climate change-related events may place on available resources. States must also seek to satisfy core obligations and protect groups in society who are in a particularly vulnerable situation, as a matter of priority\textsuperscript{362}. States also have an obligation to protect individuals against foreseeable threats to human rights posed by climate change, such as extreme weather events.\textsuperscript{363} In such cases, States could be held accountable for failure to protect an individual against a harm affecting the enjoyment of human rights.\textsuperscript{364}

The CESCR warned in 2018 that a State’s failure to prevent foreseeable human rights harm caused by climate change or to mobilize the maximum available resources to do so, could be a breach of its obligation to respect, protect, and fulfill all human rights for all.\textsuperscript{365}

States must allocate substantial financial and material resources to renewable energy and ecological farming and control deforestation and soil deterioration.\textsuperscript{366} States should also prioritize the needs of the vulnerable and marginalized segments of the population through programs that increase their adaptive capacities as they transition to a low-carbon economy.

A State’s legal obligation to respond to climate change is neither directly related nor proportional to its contribution to climate change. States may not claim that they have not “caused” climate change to escape the obligation to address global warming. Human rights law requires each State to do more than merely refrain from interfering with human rights

\textsuperscript{361} Relationship Between Climate Change and Human Rights Report.
\textsuperscript{362} Statement by the Committee on an evaluation of the obligation to take steps to the “maximum of available resources” under an optional protocol to the Covenant (thirty-eighth session; E/2008/22-E/C.12/2007/1, annex VIII).
\textsuperscript{363} Relationship Between Climate Change and Human Rights Report.
\textsuperscript{364} Relationship Between Climate Change and Human Rights Report.
\textsuperscript{366} Safe Climate Report, 19.
itself.\textsuperscript{367} It also requires each State to protect against such harms that others may cause actively. Hence, even if it is not possible to connect a particular emission of GHG to a specific infringement of human rights, States are still obliged to protect against the harm caused by climate change.\textsuperscript{368}

The Advisory Opinion of the Inter-American Court of Human Rights declares that States are obliged to protect human rights impacted by environmental degradation, even if such are beyond their territorial jurisdiction. This principle flows from the \textit{erga omnes}\textsuperscript{369} nature of States’ duty to protect human rights:

"The States Party to the Convention [American Convention] have \textit{erga omnes} obligations to respect protective provisions and to ensure the effectiveness of the rights set forth therein under any circumstances and regarding all persons. The effect of these obligations of the State goes beyond the relationship between its agents and the persons under its jurisdiction, as it is also reflected in the positive obligation of the State to take such steps as may be necessary to ensure effective protection of human rights in relations amongst individuals. The State may be found responsible for acts by private individuals in cases in which, through actions or omissions by its agents when they are in the position of guarantors, the State does not fulfill these \textit{erga omnes} obligations embodied in Articles 1(1) and 2 of the Convention."\textsuperscript{370}

\textsuperscript{367} Ibid.

\textsuperscript{368} Ibid.

\textsuperscript{369} \textit{Erga Omnes} Obligations are obligations owed by states to the international community as a whole, intended to protect and promote the basic values and common interests of all. The principle was recognized in the Barcelona Traction Case (Barcelona Traction, Light and Power Company, Limited, Judgment, I.C.J. Reports 1970, p. 3. Question of admissibility-Capacity of Applicant Government to act.)

In conjunction with the *erga omnes* nature of States’ duty to protect human rights, the
duty to act on climate change is also necessarily implied in each State's duty of international
cooperaion in addressing human rights issues:

“All UN Member States pledge themselves to take joint and separate action
in cooperation with the Organization for the achievement of universal respect
for, and observance of, human rights and fundamental freedoms for all.”

Likewise, the CESCR affirms that States have extraterritorial obligations to ensure that
human rights are given due attention in international agreements.

Cooperation among States is critical to mitigating climate change. It is in fulfillment of this
duty to cooperate that States came together through UNFCCC to address the global
problem of climate change, particularly to “achieve stabilization of greenhouse gas
concentrations in the atmosphere at a level that would prevent dangerous anthropogenic
interference in the climate system.” Thus:

“Recalling also that States have, in accordance with the
Charter of the United Nations and the principles of
international law ... the responsibility to ensure that activities
within their jurisdiction or control do not cause damage to the
environment of other States or of areas beyond the limits of
national jurisdiction.”

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371 Relationship Between Climate Change and Human Rights Report; United Nations, Charter of the United
Nations, 24 October 1945, 1 UNTS XVI.
372 See CESCR General Comments Nos. 12, 13, 14, and 15.
373 UNFCCC, Preamble.
374 Ibid.
The 1997 Kyoto Protocol, despite having had limited impact on global emissions,\textsuperscript{375} was a milestone in climate action because it was the first legally binding step toward implementing the UNFCCC's principles and goals.\textsuperscript{376}

On 1 March 2015, international legal experts adopted the Oslo Principles on Global Climate Obligations (Oslo Principles)\textsuperscript{377}. The Oslo Principles established specific obligations for States and businesses to combat climate change, the most noteworthy of which being the commitment to ensure that the rise in average world temperature does not exceed 2 degrees Celsius,\textsuperscript{378} and that “the measures required [...] should be adopted without regard to the cost, unless that cost is completely disproportionate to the reduction in emissions that will be brought about by expending it.”\textsuperscript{379} The obligations elaborated in the Oslo Principles, like the UNGP, are codifications of well-established principles of international environmental law, international human rights law, and, to some extent, tort law.\textsuperscript{380}

On 4 November 2016, the Paris Agreement\textsuperscript{381} was adopted through the continued cooperation and efforts of UNFCCC member states. The Agreement acknowledged the link between climate change and the enjoyment of human rights, \textit{albeit} implicitly:

\begin{flushright}


\textsuperscript{378} Oslo Principles, Principle 6.

\textsuperscript{379} Oslo Principles, Principle 1

\textsuperscript{380} Oslo Principles.

\textsuperscript{381} Paris Agreement to the United Nations Framework Convention on Climate Change, Dec. 12, 2015, T.I.A.S. No. 16-1104. Hereinafter referred to as Paris Climate Agreement.
\end{flushright}
“Acknowledging that climate change is a common concern of humankind, Parties should, when taking action to address climate change, respect, promote and consider their respective obligations on human rights, the right to health, the rights of indigenous peoples, local communities, migrants, children, persons with disabilities and people in vulnerable situations and the right to development, as well as gender equality, empowerment of women and intergenerational equity.”

The entry into force of the Paris Agreement was a momentous occasion in the multilateral process of climate action. For the first time, a binding agreement brought all nations together to make ambitious efforts in the reduction of emissions to combat climate change and to adapt to its effects.

However, it should be noted that in implementing emissions reduction targets and adaptation strategies, States should comply with the tenets of climate justice. The Sustainable Development Goals promote the view that States should pursue justice in addressing climate change. In particular, Climate justice is essential in Goal 13: Climate Action. Climate justice demands fairness and equity in the way people are treated, linking development and human rights to achieve a rights-based approach in addressing climate change.

All the above-mentioned instruments and principles clearly point to the imperative obligation of States to mitigate climate change in order to fully protect human rights. States must address the harm caused by climate change, as it is a critical human rights concern.

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382 Paris Climate Agreement, Preamble.
383 IPCC, AR6, WGII, SPM
385 Target 13b seeks to "Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities acknowledging that the United Nations Framework Convention on Climate Change is the primary international, intergovernmental forum for negotiating the global response to climate change." The focus on those most vulnerable to climate change promotes the goals of climate justice.
386 IPCC, AR6, WGII, SPM
and obligation under international law. States should regulate everything within their territory such that emissions are drastically reduced, the standard being limiting warming to well below 2 degrees Celsius from pre-Industrial levels, as stated in the Paris Agreement. This target has been increased to below 1.5 degrees, as recommended by the IPCC in order to prevent the worst-case scenarios that could impact human rights. States must hence drastically reduce the carbon footprint of not only State activities, but also of non-State actors. This involves drastic reductions in the use of fossil fuels and the transition to renewable energy sources by 2030.

C. Refusal of Governments to Engage in Meaningful Action to Mitigate Climate Change may be Categorized as a Human Rights Violation

Citizens may hold their governments accountable for failure to mitigate - not just adapt to - climate change. The pursuit of the State obligation to mitigate climate change cannot just be framed as aspirational, where the standard of fulfillment is vague and the timeline uncertain. Concrete metrics must be set against which States may be held accountable. Failing in this, States enable the human rights of their citizens to be harmed, which equates to a violation of their duty to protect human rights.

For the purpose of holding States in violation of their human rights obligations in the context of climate change - which failure may, itself, be categorized as a human rights violation - it is sufficient to establish the absence of meaningful State resolve and action to address the major anthropogenic actors and factors driving global warming. That science

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387 Relationship Between Climate Change and Human Rights Report
cannot yet establish to a high degree of accuracy the causal relationship between GHGs and specific climate-related effects on particular parties is problematic only in establishing legal liability for the purpose of claiming awards for damages from specific parties, which is a matter for courts to determine.

The obligation of States to address climate change includes the enactment of laws to regulate businesses. These laws should hold enterprises within their jurisdictions legally liable for acts harming the environment and the climate system.

In general, States must establish a general regulatory or policy environment that would incentivize the discovery, development, and use of clean energy. Dependence on carbon fuel should be discouraged. Incentives and subsidies should not be given to carbon producers.

The current discourse on whether the effects of Climate Change may be qualified as human rights violations has no bearing on the clear obligation of States under International Law, including International Human Rights Law, to protect their citizens from the negative impacts of climate change.

**IX. RESPONSIBILITY OF BUSINESS ENTERPRISES TO RESPECT HUMAN RIGHTS**

Although States have a duty to enact and enforce appropriate laws to ensure that businesses respect human rights, a State’s failure to perform this duty does not render business enterprises free from the responsibility of respecting human rights. Private actors, including business entities, must respect human rights, regardless of whether domestic laws exist or are fully enforced domestically. The responsibility of business enterprises to respect

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391 See General comment 24
human rights is distinct from issues of legal liability and enforcement of national law provisions.\textsuperscript{392}

\textbf{A. General Responsibility}

There is a growing number of international standards, guidelines, and principles that restate and codify existing binding obligations from treaties and customary international law, emphasizing and specifying the human rights responsibility of business enterprises. The responsibilities of corporations regarding human rights are further expounded in the following: 1) the UNGP; 2) the United Nations Global Compact; and 3) the Organization for Economic Co-operation and Development Guidelines for Multinational Corporations. Article 29 of the UDHR is instructive regarding the human rights obligations of everyone in general. It provides that:

\begin{quote}
\textit{Everyone has duties to the community in which alone the free and full development of his personality is possible.}
\end{quote}

\begin{quote}
\textit{In the exercise of his rights and freedoms, everyone shall be subject only to such limitations as are determined by law solely for the purpose of securing due recognition and respect for the rights and freedoms of others and of meeting the just requirements of morality, public order and the general welfare in a democratic society.}
\end{quote}

\begin{quote}
\textit{These rights and freedoms may in no case be exercised contrary to the purposes and principles of the United Nations. (Emphasis added)}
\end{quote}

It is clear from the UDHR that the obligation to respect rights and freedoms is applicable to everyone, not just States. Hence, the UDHR speaks of the general obligation for everyone, including corporations, to respect human rights.

\textsuperscript{392} UNGP
1. The Corporate Responsibility to Respect Human Rights under the UNGP

The UNGP now embodies the global standard of practice expected of States and businesses with regard to business and human rights. Its key elements have been accepted by the Organization for Economic Cooperation and Development, the European Union, the International Organization of Standardization, the International Finance Corporation, the Human Rights Commission of the Association of Southeast Asian Nations, the General Assembly of the Organization of American States, and the African Union, as well as by scores of individual states and businesses. “Some of the measures that have already been adopted include binding legal and policy requirements, with penalties for non-compliance.”

i. Foundational Principles of the Corporate Responsibility to Respect

The corporate responsibility to respect human rights, as the second pillar of the UNGP, implements the preambular proclamation in the UDHR that every individual and every organ of society shall strive by progressive measures to secure the universal and effective recognition and observance of human rights. To this end, its foundational principles expound on the parameters of this corporate responsibility, stating first that all business enterprises should respect human rights. These rights, at a minimum, refer to internationally-recognized human rights, as expressed in the International Bill of Rights and the International Labour Organization’s Declaration on Fundamental Principles and Rights at Work. To respect these human rights, business enterprises, including every entity within their value chains under a theory of enterprise liability, must: a) avoid contributing to adverse human rights impacts, and address them when they occur; and b)

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395 UDHR, preamble.
396 UNGP, Principle 11.
397 UNGP, Principle 12.
seek to prevent or mitigate adverse human rights impacts that are directly linked to their operations, products or services.\textsuperscript{398} Such is required of all business enterprises, regardless of size, sector, operational context, ownership, and structure.\textsuperscript{399} To meet this responsibility, business enterprises should have appropriate policies and processes, including: a) a policy commitment to meet their responsibility to respect human rights; b) a human rights due-diligence process to identify, prevent, mitigate and account for how they address their impacts on human rights; and c) processes to enable the remediation of any adverse human rights impacts they cause or to which they contribute.\textsuperscript{400}

\textbf{ii. Operational Principles of the Corporate Responsibility to Respect}

To operationalize the corporate responsibility to respect human rights, business enterprises should act with due diligence to avoid infringing on the rights of others and to address adverse impacts of their operations. To do so, business enterprises must first understand their human rights risks. Thus, the operational principles of the corporate responsibility to protect call on business enterprises to conduct due diligence processes\textsuperscript{401} and survey their entire business landscapes as a means to effect policy commitments\textsuperscript{402} that reduce adverse impacts on human rights, and design remedial measures where needed.\textsuperscript{403} In general, the operationalization of corporate human rights responsibilities must include 1) the investigation and evaluation of business activities and assessment of corporate policies that may lead to possible human rights abuses;\textsuperscript{404} 2) integration of \textit{“findings about each salient human rights issue into decision-making processes and actions”} through company policies and practices;\textsuperscript{405} and 3) addressing each issue or providing remedy for harms caused \textit{“by its actions or decisions in relation to a salient human rights issue.”}\textsuperscript{406} Due diligence processes, when done correctly, will provide business enterprises with the understanding

\textsuperscript{398} UNGP, Principle 13.  
\textsuperscript{399} UNGP, Principle 14.  
\textsuperscript{400} UNGP, Principle 15.  
\textsuperscript{401} UNGP, Principle 16.  
\textsuperscript{402} UNGP, Principle 17.  
\textsuperscript{403} UNGP, Principle 18.  
\textsuperscript{404} UNGP, Principle 19.  
\textsuperscript{405} UNGP, Principle 20.
of the harm its activities may cause, and define the ways these harms may be addressed. It does not, however, end at undertaking due diligence procedures. The findings must be made public, reported to investors and stockholders, and submitted to appropriate government agencies.

**iii. The UNGP Reporting Framework**

The UNGP Reporting Framework provides a comprehensive guide for companies to identify and report issues that detract from their responsibility to respect human rights. It tasks corporations to ask questions and report on “human rights issues associated with [their] activities and business relationships during the reporting period.” The questions, as they are framed, focus on saliency and bring into light human rights risks to the individual rather than the material risks to the business. The Framework also guides companies in the disclosure of any “severe human impacts that occurred or were still being addressed.” The ‘know and show’ strategy of the UNGP Framework catalyzes behavior changes. By bringing into light what should be reported to demonstrate respect for human rights, corporations are guided accordingly in the determination and implementation of corporate policies and activities.

**2. The United Nations (UN) Global Compact**

The UN Global Compact is a forerunner of the UNGP. It was proposed by then UN Secretary General Kofi Annan in an address to the World Economic Forum on 31 January 1999. It espouses corporate social responsibility and seeks to help businesses align their strategies and operations with the Ten Principles on human rights, labor, environment,

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409 UNGP Reporting Framework.  
and anti-corruption.\textsuperscript{411} The Ten Principles – all derived from international treaties and principles – encourage corporations to, among others, “support and respect the protection of internationally-proclaimed human rights” (Principle 1); “not [be] complicit in human rights abuses” (Principle 2); “support a precautionary approach to environmental challenges” (Principle 7); “undertake initiatives to promote greater environmental responsibility” (Principle 8); and “encourage the development and diffusion of environmentally friendly technologies” (Principle 9).

3. The OECD Guidelines for Multinational Corporations

The OECD Guidelines for Multinational Corporations is a multilaterally agreed and comprehensive code of responsible business conduct that governments have committed to promoting. Its human rights chapter was drawn from the UNGP and thereby similarly provides that enterprises should:

- “1. Respect human rights, which means they should avoid infringing on the human rights of others and should address adverse human rights impacts with which they are involved.

2. Within the context of their own activities, avoid causing or contributing to adverse human rights impacts and address such impacts when they occur.

3. Seek ways to prevent or mitigate adverse human rights impacts that are directly linked to their business operations, products or services by a business relationship, even if they do not contribute to those impacts.

4. Have a policy commitment to respect human rights.

\textsuperscript{411} This includes the Universal Declaration of Human Rights, the International Labour Organization’s Declaration on Fundamental Principles and Rights at Work, the Rio Declaration on Environment and Development, and the United Nations Convention Against Corruption.
5. Carry out human rights due diligence as appropriate to their size, the nature and context of operations and the severity of the risks of adverse human rights impacts.

6. Provide for or co-operate through legitimate processes in the remediation of adverse human rights impacts where they identify that they have caused or contributed to these impacts.\textsuperscript{412}

A. Responsibility in the Context of Climate Change

1. Application of the UNGP

The corporate responsibility to respect human rights includes the responsibility to avoid causing or contributing to adverse human rights impacts through harm to the environment and our climate system.\textsuperscript{413} Employing the foundational and operational principles of the UNGP in the context of climate change, business enterprises must:

1. Acknowledge, in their statement of policy created under Principle 16, the effect of climate change on the enjoyment of human rights;

2. Include climate change as an element of human rights due diligence undertaken in accordance with Principle 17;

3. Identify and assess the specific human rights impacts of climate change arising from their operations and product;

4. Take appropriate action to mitigate the greenhouse gas emissions from their operations and products, as defined in Principle 19; and

\textsuperscript{412} OECD Guidelines.
\textsuperscript{413} Framework Principles on Human Rights and the Environment.
5. Track the effectiveness of their measures and adequately report on their total greenhouse gas emissions (including across the full life-cycle of their products). Actions to mitigate the emissions in the future, including appropriate emissions reduction targets and diversification of energy sources must, also be reported. The process should be transparent and documented to fully comply with UNGP Principles 20-21.\footnote{Joint Summary of Amicus Curiae}

Further, following Principle 22, when, through the conduct of human rights due diligence, a business enterprise is discovered to have caused or contributed to an adverse climate-related human rights impact, a remediation mechanism or process which is accessible, predictable, transparent, and legitimate must be made available. This may be through internal remediation mechanisms or other legal processes.

2. Corporate Financial Disclosure Requirements

The UNGP Reporting Framework of “knowing and showing” human rights due diligence requirements must comply with the highest standards of transparency. Transparency in financial reporting will allow shareholders, investors, and other stakeholders to engage companies to mitigate adverse impacts on human rights and the climate system.

Climate-related financial disclosures “could promote more informed investment, credit, and insurance underwriting decisions” and “help financial market participants understand their climate-related risks.”\footnote{Financial Stability Board (2015) Proposal for a Disclosure Task Force on Climate-Related Risks. Cited in Task Force on Climate-Related Financial Disclosures. (2017) Recommendations of the Task Force on Climate-related Financial Disclosure.} It can “help build consideration of the effects of climate change into routine business and financial decisions, and their adoption can help companies demonstrate responsibility and foresight. Better disclosure will lead to a more informed and more efficient capital allocation and help facilitate the transition to a more sustainable, lower-carbon economy.”\footnote{Michael R. Bloomber, Chair, TCFD, 2020 Status Report, 22 September 2020}
The Commission supports the recommendation that business enterprises disclose their: a) governance regarding climate-related risks and opportunities (governance); b) actual and potential impacts of climate-related risks and opportunities on the organization’s business strategies and financial planning (strategy); c) identification, assessment, and management of climate-related risks (risk management); and d) metrics and targets used to assess and manage relevant climate-related risks and opportunities (metrics and targets). In addition, business enterprises must quantify and disclose the following: a) risks from physical impacts of climate change; b) risks from transitioning to low to zero-carbon economies, including the possibility of stranded assets; and c) associated litigation risks.

3. Principles on Climate Change Obligations of Enterprises

More specific than the UNGP and specifically crafted to guide enterprises on their corporate responsibilities vis-à-vis climate change, experts in international, environmental, tort, human rights, and corporate law have formulated the Principles on Climate change Obligation of Enterprises (EP). The EP is based on the interpretation of current international law as it stands or will likely develop. Most notably, it directs businesses to take the following measures, among others:

a) Reduce their GHG emissions to, at the minimum, the percentage required under the Oslo Principles or a country’s permissible quantum (Principle 2);

b) Ensure that all entities within its direct or indirect control comply with its obligations to reduce GHG emissions (Principle 6).

c) Undertake GHG reducing measures that incur no relevant additional costs like switching from fossil fuel-based energy sources to renewable energy sources.

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energy sources, eliminating excessive energy consumption, using more efficient transport; and (Principle 7.1) “take all measures to improve the energy efficiency of its products and services as can be taken without incurring relevant additional costs.” (Principle 7.2)

d) Take measures to reduce GHG emissions if the additional costs will, “beyond reasonable doubt, be offset by future financial savings or gains.” (Principle 8)

e) Avoid activities that will or are likely to cause excessive GHG emissions, including, for example, operating coal-fired power plants, without taking countervailing measures.” (Principle 9.1)

f) Avoid creating products, including packaging, that cause excessive GHG emissions, or render services that cause excessive GHG emissions, without taking into consideration countervailing measures.” (Principle 10.1)

4. Responsibility of Financial Institutions

In 2003, private financial institutions adopted the Equator Principles, a framework for determining, assessing, and managing environmental and social risks in project finance, frequently used for major infrastructure and industrial projects.\(^{419}\) The Equator Principles require financial institutions to refuse loans to borrowers who will not or cannot follow their respective social and environmental policies and processes.\(^{420}\) Although the principles are not legally binding, they have become an industry standard and are frequently referred to as good practice.\(^{421}\)

5. Compliance with State Regulations Regarding Climate Change


\(^{420}\) Ibid.

\(^{421}\) Ibid.
Lastly, enterprises must comply, cooperate, and not hinder State regulations involving climate change and human rights. This is in accordance with the responsibility laid out in the UNGP, which provides that:

_In all contexts, business enterprises should:_

(a) _Comply with all applicable laws and respect internationally recognized human rights, wherever they operate;_

(b) _Seek ways to honour the principles of internationally recognized human rights when faced with conflicting requirements;_

(c) _Treat the risk of causing or contributing to gross human rights abuses as a legal compliance issue wherever they operate._

Hence, enterprises must comply with the Nationally Determined Commitments of States who are parties to the Paris Agreement and, in general, comply with the targets set by science such as those provided by the IPCC as previously discussed.

**X. CARBON MAJORS IN THE CONTEXT OF CLIMATE CHANGE**

**A. Anthropogenic Contributions to Climate Change is Quantifiable and Substantial.**

The IPCC AR5 attributes climate change predominantly to anthropogenic increases in GHG concentrations. It states that more than half of the increase in global mean surface temperature (GMST) from 1951 to 2010 is very likely due to such an increase in anthropogenic GHG concentrations. It also observed that the atmospheric concentration of carbon dioxide, methane, and nitrous oxide has increased to unprecedented levels in at least the last 800,000 years. Carbon dioxide concentrations, primarily from fossil fuel emissions, have increased by 40% since pre-industrial times and about 30% of this emitted carbon dioxide was absorbed by the ocean, causing ocean

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422 UNGP, Principle 23
423 IPCC AR5 WG1 at 60 and 869.
424 Id. at 869.
acidiﬁcation.425 The IPCC AR5 also singled out the increase in atmospheric carbon dioxide as the largest contributor to total positive radiative forcing (RF).426 RF quantiﬁes the change in energy ﬂuxes caused by changes in natural and anthropogenic substances and processes that alter the earth’s energy budget for 2011 relative to 1750. Positive RF leads to surface warming while negative RF, leads to cooling.427

Signiﬁcantly, the IPCC AR5 reported that from 1750 to 2011, carbon dioxide emissions from fossil fuel combustion and cement production have released 375 [345 to 405] gigatons of carbon (GtC) into the atmosphere.428 As 1 GtC equals 3.67 GtCO2, this translates to approximately 1.376.25 [1,266.15 to 1,486.35] GtCO2 of global emissions.

Published and peer-reviewed studies429 and updates430 thereon (collectively, The Carbon Majors Study) presented to the Commission by its author431 found that roughly 368 GtCO2e or 21.4% of these global emissions from fossil fuel combustion and cement production were from products sold by the carbon majors. It must, however, be stated that the study, updated as of 2016, did not use the global emissions data from the IPCC, but rather used the Carbon Dioxide Information Analysis Center’s (CDIAC) data listing 1,545 GtCO2 emissions from 1751 to 2016 in a study covering the period from 1854 to 2016.

The climate model used in their analysis was based on the impulse response function approach presented in IPCC AR5, and covered the periods from 1880 to 2010 and 1980 to 2010. The study reported the following:

425 IPCC AR5 WG1, at 11.
426 Id. at 13.
427 Ibid.
428 Id. at 12.
429 See Exh.VVVV to VVVV-14, Tracing Anthropogenic Carbon Dioxide and Methane Emissions to Fossil Fuel and Cement Producers, 1854-2010; Exh. UUUU to UUUU-103, Carbon Majors; Accounting for Carbon and Methane Emissions 1854-2010 Methods and Results Report; Exh. WWWW to WWWW-9, Supplementary Materials.
430 See Exh. D, Updated Details of Carbon Major Publications; Exh. TTTT to TTTT-1, Climate Accountability Institute, Press Release on Update of Carbon Majors Project.
431 TSN of the Third Inquiry Hearing dated 29-30 August 2018, pp.53-86; See Exh. QQQQ to QQQQ-11, Profile and Statement of Richard Heede dated 7 August 2018; Exh. RRRR to RRRR-5, Curriculum Vitae of Richard Heede; Exh. SSSS to SSSS-11, Printed PowerPoint Presentation of Richard Heede, Climate Accountability Institutes’ work to quantify the contributions of carbon producers to climate change and climate change damages.
1. “Emissions traced to the 90 largest carbon producers contributed approximately 57 percent of the observed rise in atmospheric carbon dioxide, nearly 50 percent of the rise in global average temperature, and around 30 percent of global sea level rise between 1880-2010;” 432

2. Emissions linked to the Carbon Majors “were responsible for roughly 16 percent of the global average temperature increase from 1880 to 2010, and around 11 percent of the global sea level rise during the same time frame;” 433

and

3. Emissions tied to the Carbon Majors “from 1980 to 2010, a time when fossil fuel companies were aware their products were causing global warming, contributed approximately 10 percent of the global average temperature increase and about 4 percent sea level rise.” 434

B. The Carbon Majors Had Early Awareness, Notice, or Knowledge of their Products’ Adverse Impacts on the Environment and Climate System

Petitioners allege that the fossil fuel industry already had actual knowledge of the harms resulting from the extraction, sale, and use of their products in the 1960s, if not earlier. Petitioners presented: 1) copies of internal documents 435 from the fossil fuel industry,

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432 Exh. R to R-8, Profile and statement of Peter Frumhoff, PhD, dated 16 March 2018, p. 4.
433 Id. at 5.
434 Ibid.
435 Exh. NN to NN-3, Exxon Research and Engineering Company (Corporate Research Science Laboratories) dated 2 September 1982; Exh. OO to OO-11, Inter-Office Correspondence dated 31 October 1977 (Re: Environmental Effects of Carbon Dioxide); Exh. FFF to FFF-30, American Petroleum Institute Medical Advisory Committee 28th Meeting (1959); Exh. GGG to GGG-74, Energy Resources (A Report to the Committee on Natural Resources) dated December 1962; Exh. HHH to HHH-13, Final Report (Sources, Abundance and Fate of Gaseous Atmospheric Pollutants) prepared for the American Petroleum Institute (1968); Exh. III to III-40, Supplemental Report (Sources, Abundance, and Fate of Gaseous Atmospheric Pollutants) prepared for the American Petroleum Institute dated June 1969; Exh. JJJ to JJJ-215, Environmental Conservation (The Oil and Gas Industries/Volume Two) by National Petroleum Council dated February 1972; Exh. KKK to KKK-16, Exxon Research and Engineering Company Letter to Mr. Turpin dated 6 June 1978; Exh. LLL to LLL-20, Review of Environmental Protection Activities for 1978-1979 (Imperial Oil Limited); Exh. MMM to MMM-1, Exxon Research and Engineering Company Letter to Mr. Natkin dated 2 September 1982; Exh. NNN to NNN-45, The
including the carbon majors; 2) publications\(^{436}\) compiling these and similar internal documents;\(^{437}\) 3) a peer-reviewed study\(^{438}\) analyzing the internal communications of one particular carbon major;\(^{439}\) and 4) early scientific publications on carbon dioxide\(^{440}\) and a publication on the fossil industry’s early knowledge.\(^{441}\)

Scientists, including those under the employ of the carbon majors, already knew about the harms that carbon dioxide from fossil fuels posed on the climate as early as the 1930s, with 1965 being the latest year that the fossil fuel industry can claim ignorance of such knowledge.

In November 1965, the government of the United States of America published “Restoring the Quality of our Environment,” a report submitted to President Lyndon Johnson by the President’s Science Advisory Committee. The report warned that carbon dioxide from

\(^{436}\) Exh. K, Smoke and Fumes: The Legal and Evidentiary Basis for Holding Big Oil Accountable for the Climate Crisis (Center for International Environmental Law) dated November 2017; Exh. QQ to QQ-28, The Climate Deception Dossiers (Internal Fossil Fuel Industry Memos Reveal Decades of Corporate Disinformation) by Union of Concerned Scientists; Exh. III to III-15, A Crack in the Shell (New Documents Expose a Hidden Climate History) by the Center for International and Environmental Law dated April 2018.


\(^{440}\) Exh. UU to UU-21, On the influence of Carbonic Acid in the Air upon the Temperature of the Ground by Svante Arrhenius dated April 1896; Exh. VV to VV-8, The Artificial Production of Carbon Dioxide and its Influence on Temperature by G.S. Callendar dated 16 February 1938; Exh. WW to WW-9, On the Coefficients of Absorption of Nitrogen and Oxygen in Distilled Water and Seawater, and of the Atmospheric Carbonic Acid in Seawater by Charles J.J. Fox dated 27 April 1909; Exh. XX to XX-20, An Attempt to Frame a Working Hypothesis of the Cause of Glacial Period on an Atmospheric Basis by T.C. Chamberlin dated September-October 1899; Exh. YY to YY-7, Radiocarbon Evidence on the Dilution of Atmospheric and Oceanic Carbon by Carbon from Fossil Fuels by H.R. Brannon, et. al., dated October 1957; Exh. ZZ to ZZ-5, A Review of the Air Pollution Research Program of the Smoke and Fumes Committee of the American Petroleum Institute by Charles A. Jones, dated May 1958; Exh. AAA to AAA-3, The Petroleum Industry Sponsors Air Pollution Research by Vance N. Jenkins dated February 1954;

\(^{441}\) Exh. BBBB BBBB to BBBB BBBB-1, Early Oil Industry Knowledge of CO2 and Global Warming by Ben Franta dated 19 November 2018.
fossil fuels would cause warming of the earth’s surface, melting the Antarctic ice cap, rising sea levels, warming of sea water, increased acidity of fresh water, and increasing photosynthesis. Part of its conclusion states:

Through his worldwide industrial civilization, Man is unwittingly conducting a vast geophysical experiment. Within a few generations he is burning the fossil fuels that slowly accumulated in the earth over the past 500 million years. The CO₂ produced by this combustion is being injected into the atmosphere; about half of it remains there. The estimated recoverable reserves of fossil fuels are sufficient to produce nearly a 200% increase in the carbon dioxide content of the atmosphere.

By the year 2000 the increase in atmospheric CO₂ will be close to 25%. This may be sufficient to produce measurable and perhaps marked changes in climate, and will almost certainly cause significant changes in the temperature and other properties of the stratosphere. At present it is impossible to predict these effects qualitatively, but recent advances in mathematical modelling of the atmosphere, using large computers, may allow useful predictions within the next 2 or 3 years.⁴⁴²

It is reasonable to charge the fossil fuel industry with actual knowledge or notice of this very important publication from the White House.

In fact, days after the presentation of the report by the United States President’s Science Advisory Committee to President Johnson, and even before its publication, then President of the American Petroleum Institute (API), Frank Ikard, in a speech delivered during the 45th Annual Meeting of the API, called on its members to study the report. He said:

⁴⁴² The Environmental Pollution Panel President’s Science Advisory Committee, Restoring the Quality of Our Environment, 126-127 (1965) from Exh. AAAAAAA to AAAAAAAA-1, Climate Files Post Index prepared by Climate Investigations Center with links to copies of the actual documents, available at http://www.climatefiles.com/climate-change-evidence/presidents-report-atmospher-carbon-dioxide/ (last accessed 5 March 2020).
The fact that our industry will continue to be confronted with problems of air and water conservation for many years to come is demonstrated by the massive report of the Environmental Pollution Panel of the President’s Science Advisory Committee, which was presented to President Johnson over the weekend.

This report unquestionably will fan emotions, raise fears, and bring demands for action. The substance of the report is that there is still time to save the world’s peoples from the catastrophic consequences of pollution but time is running out.

One of the most important predictions of the report is that carbon dioxide is being added to the earth’s atmosphere by the burning of coal, oil, and natural gas at such a rate that by the year 2000 the heat balance will be so modified as possibly to cause marked changes in climate beyond local or even national efforts.

x x x

x x x x

There are more than 100 recommendations in this sweeping report, and I commend it to your study. Implementation of even some of them will keep local, state, and federal legislative bodies, as well as the petroleum and other industries, at work for generations.\textsuperscript{443}

The API then commissioned the Stanford Research Institute to make a comprehensive report on gaseous atmospheric pollutants. In 1968, the latter issued a final report, entitled “Sources, Abundance, and Fate of Gaseous Atmospheric Pollutants.” This final report referenced and adopted in toto the findings of the President’s Science Advisory Committee.

It concluded that the “past and present studies of CO₂ are detailed and seem to explain adequately the present state of CO₂ in the atmosphere. What is lacking, however, is an application of these atmospheric CO₂ data to air pollution technology and work toward systems in which would be brought under control.”\(^{444}\) The API again commissioned the same institute to make a supplemental report to the earlier study. In 1969, the Stanford Research Institute released the supplement, this time omitting some of the significant findings in the 1965 report made by the President’s Science Advisory Committee, including the melting of the Antarctic ice caps, rise of sea level, warming of sea water, increased acidity of fresh water and increase in photosynthesis. It still, however, maintained that “on the basis of our present knowledge, significant temperature changes could be expected to occur by the year 2000 as a result of increased CO₂ in the atmosphere. These could bring about long term climatic changes.”\(^{445}\) While it downplayed some of the effects of atmospheric CO₂, it still concluded that “it is rather obvious that we are unsure as to what our long lived pollutants are doing to our environment; however, there seems to be no doubt that the potential damage to our environment could be severe.”\(^{446}\) From then on, as the documents submitted to the Commission show, many of the carbon majors’ own scientists not only affirmed the findings of the US President’s Science Advisory Committee’s report throughout the succeeding years, but the carbon majors themselves also began to acquire much more detailed knowledge and extent of the climate risks associated with carbon dioxide from fossil fuels, including everything that we already know today.

All these demonstrate that the carbon majors have known since 1965 that their products, when used as intended, result in various harms to the climate system.

C. The Carbon Majors Engaged in Willful Obfuscation and Obstruction to Prevent Meaningful Climate Action.

\(^{444}\) Exh. HHH to HHH-13, Final Report (Sources, Abundance and Fate of Gaseous Atmospheric Pollutants) prepared for the American Petroleum Institute (1968), p. 112.


\(^{446}\) Id. at 25.
The fossil fuel industry, including the carbon majors, engaged in measures to convince the public that the use of their products would not lead to significant harms. The Carbon Majors did these through all or a combination of efforts, the most notable of which are mentioned below.

Through the API, some of the carbon majors perpetrated massive climate denial campaigns. In 1996, the API published a book, entitled “Reinventing Energy: Making the Right Choices,” which claimed to “show that when facts – not commonly held misconceptions – are used, there is no persuasive basis for forcing Americans to dramatically change their lifestyles to use less oil.”\(^{447}\) In arguing for government inaction and discouraging the further development of alternative energy sources, contrary to the findings in all the studies it commissioned over the years, it deceptively stated that:

> Currently, no conclusive – or even strongly suggestive – scientific evidence exists that human activities are significantly affecting sea levels, rainfall, surface temperatures or the intensity and frequency of storms. After all, a conclusion that the global climate is changing as a result of human activity would require much more scientific knowledge about the entire earth system that exists today. Scientific inquiry has to include natural, geophysical and geochemical cycles responsible for the changing concentrations of atmospheric gases, the systems of winds, the patterns of ocean currents, and the changing weather (including rain, evaporation and clouds), as well as the role of humans and every other plant, animal and biological form of life on earth.\(^{448}\)

In 1998, the API prepared a “Global Climate Science Communications Action Plan,”\(^{449}\) which enumerated the strategies and tactics it will employ to undermine the Kyoto Protocol

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\(^{448}\) Id. at 79.

\(^{449}\) Global Climate Science Communications Action Plan dated 3 April 1998 from Exh. AAAAAA to AAAAAAAA-1, Climate Files Post Index prepared by Climate Investigations Center with links to copies of
and climate science. Three (3) of its major strategies are as follows: “1) National Media Relations Program: Develop and implement a national media relations program to inform the media about uncertainties in climate science; to generate national, regional and local media coverage on the scientific uncertainties, and thereby educate and inform the public, stimulating them to raise questions with policy makers.”450 2) “Global Climate Science Information Sources: Develop and implement a program to inject credible science and scientific accountability into the global climate debate, thereby raising questions about and undercutting the ‘prevailing scientific wisdom.’ The strategy will have the added benefit of providing a platform for credible, constructive criticism of the opposition’s position on the science.”451 3) “National Direct Outreach and Education: Develop and implement a direct outreach program to inform and educate members of Congress, state officials, industry leadership, and school teachers/students about uncertainties in climate science. This strategy will be able to raise such serious questions about the Kyoto treaty’s scientific underpinnings that American policy-makers not only will refuse to endorse it, they will seek to prevent progress toward implementation at the Buenos Aires meeting in November or through other ways. Informing teachers/students about uncertainties in climate action will begin to erect barriers against future efforts to impose Kyoto-like measures in the future.”452 Chillingly, it declared that “Victory Will Be Achieved When average citizens ‘understand’ (recognize) uncertainties in climate science; recognition of uncertainties becomes part of the ‘conventional wisdom’453 and “those promoting the Kyoto treaty on the basis of extant science appear to be out of touch with reality.”454

From the testimonies of various resource persons and documents submitted in the course of the inquiry, the Commission is of the opinion that the strategies described in the communications action plan were actually deployed, politicians were funded, and front groups were created to oppose regulations under the guise of grassroots support.

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450 Id. at p. 4.
451 Id. at p. 5.
452 Id. at p. 6.
453 Id. at p. 1.
454 Ibid.
Evidence was also presented, proving the coal industry’s history of misleading the public about climate science. In 1991, for example, coal companies formed the Information Council on the Environment (ICE), which launched a national campaign “to disparage climate science and cherry-pick the data to highlight claims of cooling temperatures to confuse the public. Print and radio ads presented climate science as alarmist and out of touch with reality.”\(^455\) ICE’s internal documents show that their campaigns sought to target: 1) “older, less-educated males from larger household, who are not typically active information seekers...” and 2) “younger, low-income women.”\(^456\) In the same year as it was formed, ICE’s devious aims were quickly uncovered by the press and its activities terminated.

The coal industry sent forged letters, appropriating letterheads from respected constituent groups representing minorities, seniors, and women, to members of Congress to influence the votes on the American Clean Energy and Security Act of 2009, which proposed to institute a federal carbon emissions reduction plan. A congressional investigation on the matter “revealed that the fraud was perpetrated by a lobbying firm subcontracted by a front group called the American Coalition for Clean Coal Electricity (ACCCCE),”\(^457\) which counts some of the carbon majors among its members.

These campaigns were not confined to the United States, but were also conducted at the international plane, particularly through the efforts of the Global Climate Coalition (GCC), an organization of business trade associations, such as the API, including many of the carbon majors. It claimed to be “the leading voice for industry on the global climate change issue, and represents its members both internationally and domestically before government agencies, Congress, the media and the general public.”\(^458\) Internally, the GCC

\(^{455}\) Exh. QQ, The Climate Deception Dossiers (Internal Fossil Fuel Industry Memos Reveal Decades of Corporate Disinformation) by Union of Concerned Scientists, p. 19.

\(^{456}\) ICE Benchmark Survey from Exh. AAAAAAA to AAAAAAA-1, Climate Files Post Index prepared by Climate Investigations Center with links to copies of the actual documents, available at http://www.climatefiles.com/denial-groups/ice-campaign-plan/ (last accessed 5 March 2020).

\(^{457}\) Exh. QQ, The Climate Deception Dossiers (Internal Fossil Fuel Industry Memos Reveal Decades of Corporate Disinformation) by Union of Concerned Scientists, pp. 16-17.

members acknowledged that “the scientific basis for the Greenhouse Effect and the potential impact of human emissions of greenhouse gases such as CO₂ on climate is well-established and cannot be denied.” This fact is reflected in a 1995 final draft Climate change Primer created by Lenny Bernstein of Mobil Corporation and circulated to all its members. Yet, in 1996, it actively campaigned to undermine the IPCC Second Assessment Report (IPCC AR2), specifically the IPCC’s conclusion about the human contribution to global warming. The GCC wrongly accused IPCC scientists of revising the IPCC AR2 without authorization. The GCC’s strategy of attacking scientists was well documented and continued until the third IPCC assessment report.

The carbon majors, through individual efforts, also sowed doubt and misinformation about climate change. One of the most documented efforts of obfuscation is that perpetrated by ExxonMobil. A 2017 peer-reviewed study of 187 climate change communications, including peer-reviewed and non-peer-reviewed publications, internal company documents, and paid editorial-style advertisements in The New York Times, produced by ExxonMobil between 1977 to 2014, concluded that ExxonMobil misled the general public. It found that 83% of ExxonMobil’s peer-reviewed papers and 80% of its internal documents acknowledged that climate change is real and human-caused. Yet, only 12% of its advertisements acknowledge climate change, while 80% of ads expressed doubt. As documents become more publicly accessible, ExxonMobil increasingly communicated doubt, which reflected the Scientific Certainty Argumentation Method (SCAM), a tactic for undermining public understanding of scientific knowledge.

From the foregoing, the Commission agrees that the Carbon Majors, directly by themselves or indirectly through others, singly and/or through concerted action, engaged in willful obfuscation of climate science, which has prejudiced the right of the public to make

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460 Ibid
461 Exh. K, Smoke and Fumes: The Legal and Evidentiary Basis for Holding Big Oil Accountable for the Climate Crisis (Center for International Environmental Law) dated November 2017, pp. 16-17.
informed decisions about their products, concealing that their products posed significant 
harms to the environment and the climate system. All these have served to obfuscate 
scientific findings and delay meaningful environmental and climate action.

An argument may be made under Philippine law that the acts of obfuscation, deception, 
and misinformation as described above contravene the standard of honesty and good faith 
expected of a person in the exercise of his rights. Articles 19 and 21 of the Civil Code of 
the Philippines\(^\text{463}\) provide:

**Article 19.** Every person must, in the exercise of his rights and in the 
performance of his duties, act with justice, give everyone his due, and 
observe honesty and good faith.

**Article 21.** Any person who willfully causes loss or injury to another 
in a manner that is contrary to morals, good customs or public policy 
shall 
compensate the latter for the damage.

**Other Possible Bases of Liability**

Aside from liability anchored on acts of obfuscation of climate science, fossil-based 
companies may also be held to account by their shareholders for continued investments on 
oil explorations for largely speculative purposes. Such reserves may, in the global march 
towards renewable energy, end up as stranded assets. Failure to comply with specific 
administrative or regulatory requirements, such as those in the nature of exacting 
transparency in business operations, may also be basis for establishing liability.

There may be more glaring bases of legal liability for fossil fuel companies. Here we cite 
the case of *Kiobel v. Royal Dutch Petroleum Co.*,\(^\text{464}\) where an oil company was implicated, 
in complicity with State agents, for extra-judicial killings and other human rights violations

\(^{463}\) Republic Act No. 386, New Civil Code of the Philippines  
committed against community leader who opposed the laying of oil pipelines within their village. The case, however, was settled, also extra-judicially.

Continuing Climate Denial

The Commission sadly notes that, to this date, climate change denial and efforts to delay the global transition from fossil fuel dependence still persists. Sadder still is that these obstructionist efforts are driven, not by ignorance, but by greed. Fossil fuel enterprises continue to fund the electoral campaigns of politicians, with the intention of slowing down the global movement towards clean, renewable energy.

D. The Carbon Majors Have the Corporate Responsibility to Undertake Human Rights Due Diligence and Provide Remediation.

For the carbon majors within Philippine jurisdiction, they may be compelled to undertake human rights due diligence and to provide remediation.

1. The UNGPS may be Resorted to under Philippine Law.

The non-binding nature of the UNGP does not prevent its incorporation into Philippine law. Article II, Section 2 of the Constitution states that “The Philippines... adopts the generally accepted principles of international law as part of the law of the land and adheres to the policy of peace, equality, justice, freedom, cooperation, and amity with all nations.” Philippine jurisprudence provides for a wide latitude of what constitutes generally accepted principles of international law that are automatically incorporated into statutory law, including non-binding international instruments, such as the UDHR.
The UDHR, for example, is a resolution and not a treaty. Thus, during its adoption by the United Nations General Assembly in 1948, it was not considered as a binding instrument.\footnote{Brownlie, Ian. (2012). Brownlie’s principles of public international law. Oxford :Oxford University Press, 636-637 (8th ed.).} Yet, in 1951 or merely three years after its adoption, and long before the UDHR was recognized by the international community to have achieved the status of customary international law, the Supreme Court in the landmark case of Mejoff v. Director of Prisons, adopted the UDHR through the incorporation clause of the 1935 Constitution, to wit:

Moreover, by its Constitution (Art. II, Sec. 3) the Philippines "adopts the generally accepted principles of international law as part of the law of Nation." And in a resolution entitled "Universal Declaration of Human Rights" and approved by the General Assembly of the United Nations of which the Philippines is a member, at its plenary meeting on December 10, 1948, the right to life and liberty and all other fundamental rights as applied to all human beings were proclaimed. It was there resolved that "All human beings are born free and equal in degree and rights" (Art. 1); that "Everyone is entitled to all the rights and freedom set forth in this Declaration, without distinction of any kind, such as race, colour, sex, language, religion, political or other opinion, nationality or social origin, property, birth, or other status" (Art. 2): that "Everyone has the right to an effective remedy by the competent national tribunals for acts violating the fundamental rights granted him by the Constitution or by law" (Art. 8); that "No one shall be subjected to arbitrary arrest, detention or exile" (Art. 9); etc.\footnote{Boriss Mejoff v. The Director of Prisons, G.R. No. L-4254, 26 September 1951.}

This was followed by similar pronouncements of incorporation of the UDHR as part of Philippine law in Borovsky v. Commissioner of Immigration,\footnote{Victor Borovsky v. The Commissioner of Immigration and The Director of Prisons, G.R. No. L-4352, 28 September 1951.} Chirskoff v. Commissioner
of Immigration,\textsuperscript{468} and Andreu v. Commissioner of Immigration.\textsuperscript{469} Admittedly, the Supreme Court, six years thereafter, recanted its adoption of the UDHR in Ichong v. Hernandez.\textsuperscript{470} But it pivoted back in Reyes v. Bagatsing, proudly declaring that at the time when other nations merely considered the UDHR as aspirational, the Philippines had already given it binding force in its jurisdiction, thus:

"The Philippines renounces war as an instrument of national policy, adopts the generally accepted principles of international law as part of the law of the land, and adheres to the policy of peace, equality, justice, freedom, cooperation, and amity with all nations." The Philippines can rightfully take credit for the acceptance, as early as 1951, of the binding force of the Universal Declaration of Human Rights even if the rights and freedoms therein declared are considered by other jurisdictions as merely a statement of aspirations and not law until translated into the appropriate covenants. In the following cases decided in 1951, Mejoff v. Director of Prisons, 90 Phil. 70; Borovsky v. Commissioner of Immigration, 90 Phil. 107; Chirskoff v. Commissioner of Immigration, 90 Phil. 256; Andreu v. Commissioner of Immigration, 90 Phil. 347, the Supreme Court applied the Universal Declaration of Human Rights.\textsuperscript{471}

2. All Entities within each Carbon Majors’ Value chain may be Compelled to Undertake Human Rights Due Diligence and Provide Remediation

The corporate responsibility to refrain from contributing to climate change impacts that impair the full enjoyment of human rights extends not only to the whole group of companies of each Carbon Major in recognition of the enterprise theory of corporate

\textsuperscript{468} Vadim Chirskoff v. The Commissioner of Immigration and The Director of Prisons, G.R. No. L-3803, 26 October 1951.

\textsuperscript{469} Charles Andreu v. The Commissioner of Immigration and The Director of Prisons, G.R. No. L-4253, 31 October 1951.

\textsuperscript{470} Lao Ichong, in his own behalf and in behalf of other alien residents, corporations and partnerships adversely affected by Republic Act No. 1180 v. Jaime Hernandez, et. al., G.R. No. L-7995, 31 May 1957.

\textsuperscript{471} Jose B.L. Reyes, in behalf of the Anti-Bases Coalition (ABC) v. Ramon Bagatsing, as Mayor of Manila, G.R. No. L-65366, 9 November 1983, footnote no. 34.
personhood, but also to all business enterprises in each of the Carbon Majors’ respective value chains. Accordingly, the Carbon Majors and business enterprises that cause, contribute to or are linked to adverse climate-related human rights impacts, “need to know and be able to show” that they respect human rights. This they can do by undertaking a human rights due diligence process as set forth in Principles 16 to 21 of the UNGP.

Michael Addo, a member of the UN Working Group on Business and Human Rights, explains that “it is through human rights due diligence that any enterprise can understand the exact nature of the harm and its contribution to harm. In this case, its contribution to climate change, and so define exactly how each enterprise can prevent, mitigate or remedy any harms. Not knowing your role, contribution, of course, means you are unable to address the harm. Due diligence, therefore, is the key to corporate respect for human rights.”

Furthermore, if through the due diligence process or other means, it is found that a business enterprise has caused or contributed to adverse human rights impacts, it would be incumbent upon such business enterprise to provide for or cooperate in the remediation of the adverse human rights impacts as mandated by Principle 22 of the UNGP. “Remediation and remedy refer to both the processes of providing remedy for an adverse human rights impact and the substantive outcomes that can counteract, or make good, the adverse impact. These outcomes may take a range of forms, such as apologies, restitution, rehabilitation, financial or non-financial compensation, and punitive sanctions (whether criminal or administrative, such as fines), as well as the prevention of harm through, for example, injunctions or guarantees of non-repetition.”

Business enterprises, including their value chains, doing business in, or by some other reason within the jurisdiction of, the Philippines, may be compelled to undertake human

\footnotesize{472 See Amicus Curiae Brief of ClientEarth, November 2016, p. 47-49.  
474 UNGP, Principle 15.  
476 UNGP Interpretative Guide, p. 8.}
rights due diligence and held accountable for failure to remediate human rights abuses arising from their business operations.

E. Global Dependence on Fossil Fuels

Latest data\textsuperscript{477} show that fossil fuels hold the largest share in the global energy mix at 83.13% of total. Oil, coal, and natural gas amount to 31.21%, 27.20%, and 24.72%, respectively. There has been a decrease in the use of oil and coal by 7% since the Paris Agreement in 2015, and an increase in the use of natural gas by 7%.

On the other hand, renewable energy (hydro, wind, solar, geothermal, biomass, waste to energy) amounted to 12.55% of the energy mix. This represents an increase of 28% since 2015. Nuclear power supplied 4.31% of the mix.

The share of renewables in the energy mix in the US amounts to only 9.93%, with most of the energy sourced from oil (37.06%), natural gas (34.12%), and coal (10.38%)

China sources a massive 56.56% of its primary energy from coal, with 19.59% from oil, 13.43% from renewables, and 8.18% from natural gas. Europe is the leader in renewables, with 19.13% of their energy mix coming from green sources, with 33.8% from oil, 25.25% from gas, and 12.18% from coal. The Asia Pacific region sources its primary energy mostly from coal at 47.77% of the energy mix, with 26.33% from oil, 12.25% from gas, and only 11.36% from renewables. Africa is highly dependent on fossil fuels, sourcing 38.67% from oil, 29.63% from natural gas, 22.11% from coal, and only 8.85% from renewables. The Philippines is also highly dependent on fossil fuels, sourcing 41.01% from oil, 39.88% from coal, 7.58% from natural gas, and only 10.52% from renewables.

Globally, renewables represent only 12.55% of the total energy mix, which is a 28% increase from 2015 to 2020.

While science is clear on the adverse effects of fossil fuels, the present global energy mix shows that our supply of clean, renewable energy is not yet of sufficient scale to effectively replace carbon-based fuel.

The challenge that confronts us, therefore, is to hasten the transition of the global economy towards clean energy. And all acts to obfuscate climate science and delay, derail, or obstruct this transition may be bases for liability. At the very least, they are immoral. States may, as part of their duty to human rights, enact and/or enforce laws to overcome these kinds of undertakings and hold parties accountable for them.

The inflection point has already been reached in favor of renewable energy. Globally, although renewables represent only 12.55% of the total energy mix, it reflected a significant increase of 28% from 2015 to 2020. Soon, renewable energy would be a viable alternative to fossil fuel. The use of fossil fuel will then be proscribed, from whence its extraction, processing, and marketing shall be deemed as a human rights abuse and an illegal act as well.

**X. RECOMMENDATIONS**

**A. General**

Despite science telling us that even an increase of 1.5°C will significantly harm natural and human systems, we are far from “holding the increase in the global average temperature to well below 2°C above pre-industrial levels and pursuing efforts to limit the temperature increase to 1.5°C above pre-industrial levels.”\(^{478}\) While more and more States have strengthened their commitments and increased their ambitions in addressing climate change, this is still not enough to avert catastrophic climate change in time. The latest IPCC report on Nationally Determined Contributions shows that even if all current NDCs

are implemented, the world will still face a 2.7 degree increase in temperature by the end of the century. There is an urgent need for either a significant increase in the level of ambition of NDCs between now and 2030 or a significant overachievement of the latest NDCs, or a combination of both.\footnote{Nationally determined contributions under the Paris Agreement Revised synthesis report by the secretariat 12 November 2021, p. 6, par. 15 and p. 29, par. 150. The full text of the report is available here: https://unfccc.int/sites/default/files/resource/cma2021_08r01_E.pdf (Last accessed on 25 April 2022).} “We need maximum ambition from all countries on all fronts.”\footnote{Mr. António Guterres, Secretary-General of the United Nations, COP 26 Speech.}

There is a vital need for a 45\% reduction in GHG emissions from 2010 levels by 2030 and to reach net zero emissions by 2050.\footnote{Ibid. at p., 4.} Political will complemented by urgent action is necessary to meet these targets, and everyone, from governments to businesses and individual citizens, must engage in securing a sustainable future. “[P]olitical commitment and follow-through, institutional frameworks, policies and instruments with clear goals and priorities, enhanced knowledge on impacts and solutions, mobilization of and access to adequate financial resources, monitoring and evaluation, and inclusive governance processes”\footnote{IPCC, AR6, WGII, SPM - Statement C.5} are all necessary to sustain climate adaptation, mitigation, and resilience actions.

The Commission agrees that if the international community proceeds with a business-as-usual approach to climate change, the Filipino experience of deprivation of fundamental rights will become the norm in many nations, or even worse. Cooperation among all duty-bearers and stakeholders is of primal importance if we are to truly reverse the path we are on.

It is in this spirit of cooperation that the Commission endorses the following recommendations:

1. Governments
The very nature of climate change and its worldwide impacts require States to commit to global collective action. The UNFCCC recognizes that effective climate action requires "the broadest possible cooperation by all countries, as well as their involvement in an efficient and acceptable international response in accordance with their shared yet distinct responsibilities."483

Ecosystems and people have substantially different vulnerabilities among and within regions due to various “patterns of intersecting socioeconomic development, unsustainable ocean and land use, inequity, marginalization, historical and ongoing patterns of inequity such as colonialism, and governance.”484 “Across sectors and regions the most vulnerable people and systems are observed to be disproportionately affected.”485 As climate change’s consequences and risks are much more severe in low-income countries, developed countries have a special obligation and interest to aid poorer developing countries.486

Countries that have reaped the benefits of high industrialization without regard for massive GHG emissions and their effects on the environment, bear a larger share in providing solutions to the problems they have created. This is climate justice.

In order to usher in the much-needed global green industrial revolution, those in the developed world must recognize their special responsibility to help everybody else.487 At the same time, “emerging economies, too, must go the extra mile, as their contribution is essential for the effective reduction of emissions.”488 Hence, to truly affect climate justice, global action must involve the “pooling of resources and a sharing of skills across the world.”489

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483 UN General Assembly, United Nations Framework Convention on Climate Change, 20 January 1994, A/RES/48/189. Article 2, paragraph 2 of the Paris Agreement also explicitly states that “the Agreement will be implemented to reflect equity and the principle of common but differentiated responsibilities and respective capabilities, in the light of different national circumstances.”

484 IPCC, AR6, WGII, SPM, B.2, p. 13

485 IPCC, AR6, WGII, SPM, statement b.1, p. 11

486 Laudato Si, no. 170.

487 Mr. Boris Johnson, Prime Minister of the UK, COP 26 Speech.

488 Mr. António Guterres, Secretary-General of the United Nations, COP 26 Speech.

In accordance with the responsibility of private enterprises to respect human rights, the Commission endorses the call to States to undertake the following:

i. Discourage Dependence on Fossil Fuels

Apart from not promoting fossil fuels, States should also discourage dependence on them. Steps must be made for the eventual phase-out of all coal power fossil fuel subsidies, not merely “inefficient” subsidies, as suggested in the Glasgow Pact. Additionally, more than just phasing down, efforts must be made for the complete phase-out of coal power. Previously granted tax breaks and subsidies must be terminated, and no future tax incentives should be granted to carbon-intensive industries or corporations. States must divest from, prevent investments in, and deny subsidies or incentives to fossil fuel related projects or activities, as well as cease the issuance of new permits or allowance of new construction.

Tax credits and other incentives for investments must be granted to renewable or clean energy technologies such as solar and wind. They must also be provided to complement aggressive carbon capture measures. “Innovative approaches and instruments for mobilizing finance for [mitigation and] adaptation from private sources”\(^{490}\) must also be explored.

States must require that private actors and businesses receiving grants, funding, loans, or financial assurances have decarbonization and net-zero plans, and other measures to meet the Paris Agreement's objectives and that such plans or actions have been fulfilled or are on track to be met.\(^{491}\)

ii. Collaborate on innovative climate action and guarantee that the benefits of science and technology are enjoyed by all

As provided in the Glasgow Climate Pact, “the development, deployment and dissemination of technologies, and the adoption of policies, to transition towards low-
emission energy systems\textsuperscript{492} must be accelerated, including the rapid scaling up of “the deployment of clean power generation and energy efficiency measures.”\textsuperscript{493} Towards this end, the Commission endorses the Global Coal to Clean Power Transition Statement, including the need for the rapid scaling up of the deployment of clean power generation, and “technologies and policies to achieve a transition away from unabated coal power in the 2030s (or as soon as possible thereafter) for major economies and in the 2040s (or as soon as possible thereafter) globally.”\textsuperscript{494}

The Commission echoes the recommendation of the OHCHR, to wit:

All States should actively support the development and dissemination of new climate mitigation and adaptation technologies including technologies for sustainable production and consumption. Environmentally clean and sound technologies should be accessibly priced, the cost of their development should be equitably shared, and their benefits should be fairly distributed between and within countries. Technology transfers between States should take place as needed and appropriate to ensure a just, comprehensive and effective international response to climate change. States should also take steps to ensure that global intellectual property regimes do not obstruct the dissemination of mitigation and adaptation technologies while at the same time ensuring that these regimes create appropriate incentives to help meet sustainable development objectives. The right of indigenous peoples to participate in decision making related to and benefit from the use of their knowledge, innovations and practices should be protected.\textsuperscript{495}

iii. Cooperate towards the Creation of a Legally Binding Instrument to Strengthen the Implementation of the UNGP, and Provide Redress Mechanisms for Victims of Human Rights Harms Caused by Businesses

\textsuperscript{492} Glasgow Climate pact, par. 36.
\textsuperscript{493} Ibid.
\textsuperscript{494} Global Coal to Clean Power Transition Statement
\textsuperscript{495} OHCHR CoP 21 Submission, p. 4, par. 7.
“States must take adequate measures to protect all persons from human rights harms caused by businesses”\textsuperscript{496} – including those arising from the impacts of climate change. Further international legislation that will close global governance gaps and make businesses “accountable for their climate impacts and participate responsibly in climate change mitigation and adaptation efforts with full respect for human rights”\textsuperscript{497} is needed. This regulation must necessarily include State “activities conducted in partnership with the private sector” or “[w]here States incorporate private financing or market-based approaches to climate change within the international climate change framework.”\textsuperscript{498}

For the treaty to be fully meaningful, the Commission further recommends the inclusion of redress mechanisms and effective remedies for victims of human rights violations committed by enterprises pursuant to or in the conduct of business activities.

iv. Concretize the Responsibility of Businesses in the Context of Climate Change

“States should be accountable to rights-holders for their contributions to climate change including for failure to adequately regulate the emissions of businesses under their jurisdiction regardless of where such emissions or their harms actually occur.”\textsuperscript{499} National and subnational governments that have authority to regulate the exploration, growth, and operation of natural resources or industrial enterprises, as well as State agencies that have authority to regulate environmental or human rights protection within their jurisdiction, must require companies to prepare decarbonizing analysis, planning and commitments, including corporate actions to carry out said plans and the legal duty of directors and officer relating to such.\textsuperscript{500} To help fulfill their duty to protect human rights, States should

\hspace{1cm} \textsuperscript{496} OHCHR CoP 21 Submission, p. 4, par. 8. (Emphasis supplied.)
\textsuperscript{497} Ibid. (Emphasis supplied.)
\textsuperscript{498} Ibid. (Emphasis supplied.)
\textsuperscript{499} OHCHR CoP 21 Submission, p. 3, par. 3.
\textsuperscript{500} Estrin, D. & Williams, C. (2018) Unique Legal Obligations of Officers and Directors of Carbon Major Enterprises and their Investors to Reduce Enterprise Carbon Emissions and Avoid Climate Change Related Human Rights Impacts to Vulnerable Communities, and Measures these Enterprises and their Directors should Implement to Act on/Comply with these Obligations: Summary of recommended measures to Reduce and Potentially Avoid Human Rights Impacts in the Planning, Financing and
“encourage, and where appropriate require, business enterprises to communicate how they address their human rights impacts,” specifically when their business operations impact human rights. While corporations are already mandated to submit financial reports to government regulators, States should further require the submission of non-financial reports relating to environmental and climate change impact assessments, disclosure of human rights due diligence and consideration of human rights risks, consistent with the Guiding Principles. Necessarily, States should strictly monitor such submissions and impose appropriate penalties for non-compliance. Importantly, these reports should be accessible to investors and the general public.

v. Discourage anthropogenic contributions to climate change and compensate victims

All countries must put a price on pollution. States must provide penalties for emissions. Monetary penalties may then be earmarked for climate change-related mitigation and adaptation activities.

States should also establish legal frameworks to compensate victims of climate change impacts, through courts or quasi-judicial bodies, with revenues derived directly from polluters. This framework should allow for compensation to be fair, meaningful, and accessible. Polluters may be found to have solidarity liability for penalties assessed in favor of a claimant.

vi. Ensure that all persons have the necessary capacity to adapt to climate change, and guarantee equality and non-discrimination in climate adaptation and mitigation measures
Sustainable adaptation and mitigation measures must be based on equity and justice and must consider specific inequalities which stem from gender, ethnicity, disability, age, location, and income. Inclusive governance involving “multi-stakeholder co-learning platforms, transboundary collaborations, community-based adaptation and participatory scenario planning, focus on capacity-building, and meaningful participation of the most vulnerable and marginalised groups, and their access to key resources to adapt” is necessary for developing more effective and sustainable adaptation and mitigation laws, policies, processes, and interventions that address context specific inequities.\textsuperscript{504}

States must thus implement adaptation and mitigation measures that protect and fulfill the rights of all persons, particularly those most vulnerable and most marginalized, and build climate resilience in communities through recognizing that factors such as “discrimination, and disparities in education and health affect climate vulnerability,”\textsuperscript{505} thus the need to devote “adequate resources to the realization of the economic, social and cultural rights of all persons, particularly those facing the greatest risks.”\textsuperscript{506}

States must guarantee equity in climate action and give further protection to those who have contributed least to GHG emissions including developing countries, indigenous peoples, people in vulnerable situations, and future generations. Toward this end, States must guarantee that climate actions do not “exacerbate inequalities within or between States. For example, indigenous peoples’ rights should be fully reflected in line with the United Nations Declaration on the Rights of Indigenous Peoples and actions likely to impact their rights should not be taken without their free, prior and informed consent. Care should also be taken to ensure that a gender perspective, including efforts to ensure gender equality, is included in all planning for climate change mitigation and adaptation. The rights of children, older persons, minorities, migrants and others in vulnerable situations

\textsuperscript{504} IPCC, AR6, WGII, C.5.6
\textsuperscript{506} Ibid. (Emphasis supplied.)
must be effectively protected.” Thus, States must “ensure meaningful youth participation and representation in multilateral, national and local decision-making processes … actively involve indigenous peoples and local communities in designing and implementing climate action… [and] increase the full, meaningful and equal participation of women in climate action and to ensure gender-responsive implementation and means of implementation.”

vii. Ensure a just transition towards an environmentally sustainable economy

Global cooperation is necessary for working towards a just and equitable outcome. The collective knowledge of the global community must complement the local and regional experience and realities, including an understanding of differences in goals, values, risks, barriers, and opportunities, in the development of just and equitable laws, policies, and process interventions that eliminate entrenched vulnerabilities to climate change.

Thus, States must recognize and address the existing inequalities and varying challenges in the transition to net-zero. Climate neutrality cannot take place at the expense of people. Green policy must put the citizen’s well-being at the heart of change because “if domestic and global policies are to achieve common goals, they must create not only a resilient economy but also a resilient society that leaves no one behind.”

States must ensure a just transition towards an environmentally sustainable economy that will guarantee “decent work for all, social inclusion and the eradication of poverty.” This is particularly true for oil-based economies and those with workforces relying on carbon-intensive industries and their supply chains. The Commission further recommends that States, in the transition to net-zero, engage with stakeholders in developing economic

507 OHCHR CoP 21 Submission, p. 4, par 9.
508 Glasgow Climate Pact, par 95.
509 Mr. Mateusz Morawiecki, Prime Minister of Poland, COP 26 Speeches.
510 Mr. Mateusz Morawiecki, Prime Minister of Poland, COP 26 Speeches.
511 International Labour Organization, Guidelines for a just transition towards environmentally sustainable economies and societies for all, 2015, pars. 4 and 15 (a).
strategies that are fair, inclusive, and sustainable; and provide support to workers through the creation of local, inclusive and decent jobs.\textsuperscript{512}

viii. Fulfill climate finance commitments and device new mechanisms for loss and damage from climate change-related events

“Climate resilient development is enabled by increased international cooperation including mobilising and enhancing access to finance, particularly for vulnerable regions, sectors and groups.”\textsuperscript{513} Accelerated financial support for developing countries including “increased levels of public finance and publicly mobilised private finance flows from developed to developing countries in the context of the USD100 billion-a-year goal; increas[ing] the use of public guarantees to reduce risks and leverage private flows at lower cost; local capital markets development; and building greater trust in international cooperation processes” are critical to enhancing adaptation and mitigation actions.\textsuperscript{514} This scaling up of climate finance must be supported by clear policy choices and signals from governments and the international community.\textsuperscript{515}

The Commission reiterates that developed States and emerging economies must provide and fulfill their $100 billion annual climate finance commitments. Wealthy nations must take the lead in mobilizing climate finance through various channels, prioritizing country-driven strategies based on data and science. Current climate finance commitments must be balanced between adaptation and mitigation based on the needs and priorities of developing countries. The Commission further endorses the recommendation that developed nations support developing countries and emerging economies through knowledge and technology-transfer, capacity building, and finance.\textsuperscript{516}

\textsuperscript{512} The 2021 Declaration on Supporting the Conditions for a Just Transition Internationally for COP 26. (Available at: https://ukcop26.org/supporting-the-conditions-for-a-just-transition-internationally/). Hereinafter referred to as 2021 Declaration on Just Transition.
\textsuperscript{513} IPCC, AR6, WGII, D.5.2
\textsuperscript{514} IPCC, AR6, WGIII, E.5.3
\textsuperscript{515} IPCC, AR6, WGIII, E.5
\textsuperscript{516} 2021 Declaration on Just Transition.
“Pursuant to relevant human rights principles, climate assistance should be adequate, effective and transparent, it should be administered through participatory, accountable and non-discriminatory processes, and it should be targeted toward persons, groups, and peoples most in need. States should engage in cooperative efforts to respond to climate-related displacement and migration and to address climate-related conflicts and security risks.”

The Commission stresses that apart from climate financing for mitigation and adaptation, a separate finance mechanism for loss and damage must be implemented to assist developing countries.

The Commission acknowledges that UN agencies, international development organizations, and NGOs have already developed a variety of multilateral and regionally targeted funding mechanisms for mitigation and adaptation. National, regional, and multilateral policies have also been implemented and proposed. Their influence, however, may be improved.

Coordination across governance scales, including international cooperation, can be improved in achieving mitigation and adaptation goals. It will be more economical and effective if climate actions are embodied in internationally binding instruments, including trade agreements or regional arrangements, for the joint construction of infrastructure that facilitates the reduction of carbon emissions.

ix. Support and Provide adequate Legal Protection to Environmental Defenders and Climate Activists

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520 IPCC, SYR, 2014, p. 106.
States must support and provide adequate legal protection to climate activists and environmental groups in recognition of their role in promoting and advancing climate justice. In particular, States are encouraged to:

a. Expand the civic space that enables various climate and environmental organizations to build and exchange good practices and call attention to gaps in the security of human rights and environmental defenders;

b. Remove administrative and operational barriers to the formation and accreditation of legitimate environmental groups and NGOs;

c. Avoid interfering with climate activists' and environmental groups' efforts to create networks, including their involvement in public relations, especially at international climate conferences and negotiations, and their access to foreign and domestic funding;

d. Stop labeling climate advocates, environmental groups, and defenders as enemies of the State, and other related actions, based on their advocacy for climate action;

e. Prohibit vilification, surveillance, red-tagging, threats of retaliation, and other activities that limit the freedom of climate activists and environmental groups;

f. Effectively guarantee and preserve climate activists' and environmental organizations' and defenders' freedoms of speech, association, and peaceful assembly, without fear of criminalization; and

g. Protect citizens’ right to information by allowing environmental groups and defenders, journalists and climate advocates to freely report on environmental activities and give journalists and members of the press full access to information on the promotion of human rights and activities of climate activists and environmental groups.

h. Conduct efficient, timely, comprehensive, and impartial investigations into human rights violations against environmental groups and defenders. Where applicable, take action against those natural or legal persons found liable, in compliance with domestic and international law.
x. Promote Climate Change Awareness and Education

States must take a more proactive approach in promoting climate change awareness and instilling a deep understanding of human rights and climate justice. Formal and non-formal education must raise understanding of these issues by generating new insights not only on a scientific level, but also on a sociological and political level.521

The Commission endorses the adoption of the Glasgow Action for Empowerment,522 to wit:

1. Integrate climate change learning into the curricula of schools and other institutions that provide formal education, and support non-formal and informal education on climate change, including respect for and inclusion of indigenous and traditional knowledge
2. Strengthen education, training and skills development in national institutions to deliver action on climate change learning
3. Train government officials from different ministries and departments, including those working in local government, on how climate change relates to their respective areas of work to strengthen institutional and technical capacity
4. Inform the public on the causes of climate change and sources of greenhouse gas emissions, as well as on actions that can be taken at all levels to address climate change and vulnerabilities, including through social media, electronic communication, festivals and cultural events, or by partnering with urban and rural local communities
5. Improve public access to information on climate change at the national and local level using a range of methods and tools, taking

522 Conference of Parties 26 (2021) Decision-/CP.26 Glasgow work programme on Action for Climate Empowerment.
into account the different ways particular communities, groups and individuals, including women and children and youth, may be impacted by climate change

1. to include accurate information on climate change science and mitigation on national and subnational government websites

2. to make scientific information on climate change mitigation and adaptation freely available and accessible to the general public

3. to make national climate reports available in local languages for vulnerable communities, including people with special needs

6. Seek public participation and input, including from youth, women, civil society organizations and other groups, in formulating and implementing efforts to address climate change and in relation to preparing national communications, and encourage the involvement and participation of representatives of all stakeholders and major groups in the climate change negotiation process

7. Promote and facilitate the exchange of information and materials and the sharing of experience and good practices

Importantly, States should invest in training and developing the current student generation in skills and talents which will aid in the transition to a green economy.

xi. Include the Military in Carbon Accounting

Each State must also consider all fuel consumption and carbon emissions resulting from their military operations and supply chains when developing their NDC. A recent study showed that the US military consumes more liquid fuels and emits more CO2e (carbon-
dioxide equivalent) than most countries, largely due to its global logistical supply chains.\textsuperscript{523} It is likely that militaries worldwide also consume and emit similar levels in their operations and supply chains. Because of the size, scale, and spread of global military operations, their impact on climate change must also be considered and included in carbon accounting.

\textbf{xii. Strengthen shared efforts to conserve and accelerate the restoration of forests and other terrestrial ecosystems}

Recognizing the role of forests and other terrestrial ecosystems as carbon sinks, the Commission endorses the recommendation that States commence the transition to sustainable land use including “halting and reversing forest loss and land degradation by 2030.”\textsuperscript{524}

The Commission encourages conservation, protection and restoration measures including sustainable forest management, diversifying and adjusting tree species compositions to build resilience, and managing increased risks from pests, diseases, and wildfires.\textsuperscript{525}

The cessation of forest degradation and acceleration of reforestation must be supported by sustainable international and domestic trade and development policies. States must also “reduce vulnerability and empower local communities and indigenous peoples; redesign agricultural policies to promote sustainable agriculture and food security; and facilitate the alignment of financial flows with international goals to reverse loss and degradation, while ensuring policies are in place in the accelerated transition to a greener economy.”\textsuperscript{526} “Cooperation, and inclusive decision making, with local communities and Indigenous Peoples, as well as recognition of inherent rights of Indigenous Peoples,” must be made an integral part of such action plans.”\textsuperscript{527}

\textsuperscript{525} IPCC, AR6, WGII, c.2.3
\textsuperscript{526} Glasgow Leaders Declaration on Forests and Land Use.
\textsuperscript{527} IPCC, AR6, WGII, c.2.3
2. Carbon Majors (and Other Carbon-Intensive Industries)

The Commission recommends the courses of actions below not only to the carbon majors named in the Petition but also to all carbon-intensive corporations and industries, whether investor-owned or State-owned.

i. Publicly Disclose Due Diligence and Climate and Human Rights Impact Assessment Results, and the Corresponding Measures taken in Response thereto

The Commission understands that decarbonization cannot happen overnight. But as we endure the negative impacts of climate change while working toward green solutions, the Commission urges the carbon majors to be more transparent about their operations and activities, not only to their shareholders and government regulators but also to the public in general.

The public has the right to know the specific climate risks that each carbon major contributes to or may be involved in through the continued production, sales and use of their products. As such, the carbon majors must disclose the mass of carbon emissions resulting from the totality of their operations, including those of their subsidiaries across multiple jurisdictions. The carbon majors must conduct due diligence, and climate change and human rights impact assessments in accordance with the UNGP in all stages of their operations and across all their value chains, even if not required by government regulations in the jurisdictions they operate in.

The Commission further recommends that the carbon majors make public pronouncements about their commitments to combat climate change. Particularly, they should inform the public how they plan to support the attainment of the Paris Agreement targets by developing and publishing specific business plans about intended emissions reduction, decarbonization and transition to a low-carbon economy, among others. These
plans must contain key performance indicators, which may be reviewed and evaluated to determine whether published goals and plans are achieved over a specific period.

ii. Desist from all Activities that Undermine the Findings of Climate Science

The Commission urges the carbon majors to desist from all activities that undermine climate science. They should acknowledge, in no uncertain terms, the reality of climate change; that it is primarily anthropogenic in nature; and that their products have widely contributed thereto. They should denounce all forms of climate denial propaganda and cease funding lobbies, politicians, pseudo-scientists, trade associations and other organizations that disseminate false information about climate change and climate science. Once and for all, they should let science tell the truth about climate change in order to hasten the global effort towards transitioning to clean and renewable energy.

iii. Cease further Exploration of New Oil Fields, Keep Fossil Fuel Reserves in the Ground, and Lead the Just Transition to Clean Energy

With the acknowledgement of climate science, carbon majors must stop further exploration of new oil fields or other sources of fossil fuels. The existing glut in reserves will only become stranded assets in the future. Instead, they should work towards harm reduction by leading the research, development and investment in sustainable alternative energy systems and carbon sequestration processes with a substantial capital outlay dedicated to renewable energy.

iv. Contribute to a Green Climate Fund for the Implementation of Mitigation and Adaptation Measures

The Commission also encourages the carbon majors to contribute to a Green Climate Fund or other similar funds not only in the jurisdictions they operate in and in geographical

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areas that bear the brunt of the impacts of climate change. They can also choose to finance mitigation and adaptation measures and projects in said areas to alleviate the plight of those impacted by climate change-related harms.

v. Continually engage with Experts, CSOs and other Stakeholders for the Assessment and Improvement of Corporate Climate Response.

Finally, the Commission recommends that the Carbon Majors continuously engage with climate scientists, policymakers, NGOs, affected communities and other stakeholders. By opening avenues for dialogue and fostering mutual trust, the history of deception, obfuscation, and obstruction will be replaced by a new chapter of cooperation towards a united front for climate action.

3. Financial Institutions and Investors

Financial institutions\textsuperscript{529} are progressively taking part in various climate initiatives and publicizing their commitments toward climate action. The financial sector is regarded as \textit{“the vital link in enabling the kind of system-wide change”}\textsuperscript{530} in achieving net zero. The sector can steer companies and industries towards a sustainable path by aligning lending and investment portfolios with targets set by science. Although their direct emissions are negligible, their role as financiers of the sectors and projects that generate GHG emissions, including and most significantly, the fossil fuel industry, make them similarly accountable for global warming and climate change. To meet the targets of the Paris Agreement, the global carbon budget demands the cessation of new fossil fuel extraction and the creation of more infrastructure in support thereof. This would be possible if financiers break away from lending and investing in carbon-related industries.

\textsuperscript{529} “The core participants in the finance sector include banks, insurance companies, pension funds, fund managers, mutual funds, sovereign wealth funds, charities and endowment funds.” See UN Environment Programme Finance Initiative (UNEP FI), Financial Institutions Taking Action on Climate Change (2014).

\textsuperscript{530} Science Based Targets, “Financial Institutions.” https://sciencebasedtargets.org/sectors/financial-institutions

The Commission fully supports the latest version of the Equator Principles (EP4), and recommends its adoption by all financial institutions. The Equator Principles serve as a framework for financial institutions to identify, assess and manage environmental and social risks when financing projects. Those who subscribe to them, called the Equator Principles Financial Institutions (EPFIs), commit not to provide Project Finance, Project-Related Corporate Loans to Projects or Project-Related Refinance and Project-Related Acquisition Finance to projects that are not compliant with Equator Principles requirements. Principle 2 of the EP4 requires clients to conduct an environmental and social assessment of their proposed projects. Such assessment specifically includes human rights risks and impacts based on the UNGP, as well as climate change risk assessments aligned with the Climate Physical Risk and the Climate Transition Risk categories of the Task Force on Climate-related Disclosures. The assessment documentation also requires measures to minimize, mitigate, compensate, and remedy risks and impacts on affected communities and the environment. EPFIs are also encouraged to use the EP4 framework for financial products outside of the scope of the EP4. Praiseworthy in the EP4 is the EPFIs’ solid and unequivocal commitment to support the objectives of the Paris Agreement and fulfill the responsibility to respect human rights in line with the UNGP.

However, as the window to take decisive climate action becomes smaller, the Commission encourages financial institutions to take bolder actions. The Commission thus invites financial institutions to fully realize and embrace their unique position to influence and direct the actions and policies of companies and industries to transition to a low-carbon economy. This they can do by refusing to inject capital into activities related to fossil fuel extraction and conventional fossil fuel-based power generation. Instead, they should redirect capital to activities that promote GHG emissions reduction and build infrastructure necessary to address and respond to the physical impacts of climate change.

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531 The Equator Principles
Further, financial institutions must endeavor to “enhance finance mobilization in order to deliver the scale of resources needed to achieve climate plans, particularly for adaptation;”\textsuperscript{532} scale up investments in climate action\textsuperscript{533} taking into account the vulnerabilities of specific sectors, regions, and countries; simplify and enhance access to finance;\textsuperscript{534} and “provide enhanced and additional support for activities addressing loss and damage associated with the adverse effects of climate change.”\textsuperscript{535}

ii. Investors must exert social, political, and economic pressure on the fossil fuel industry to transition to clean energy by divesting financial instruments related to the fossil fuel industry.

The Commission calls on investors to invest in protecting the climate for present and future generations. Conventional investing, where profit is the sole driving force in making decisions, should take a step back in recognition of the fact that investment decisions can either fuel a business-as-usual approach to the grim realities of climate change, or could usher us towards the path of sustainability and protect the environment and climate for present and future generations. As owners of capital, investors have the power to influence and direct company policies and actions. Thus, investors should be more circumspect in making investment decisions and mindful of their obligation under the UNGP to respect human rights by ensuring that the companies they invest in do not tolerate, propagate or contribute to human rights violations in all phases of their operations and broader value chains.

To discharge this responsibility, the Commission encourages investor due diligence, particularly the consistent use of environmental, social and governance (ESG) criteria in making investment decisions. ESG criteria are standards used by socially responsible investors in screening potential investments. Human rights impacts are necessarily included therein. The Commission encourages networks such as the Investor Alliance for Human Rights, whose members integrate ESG considerations in investment decision-

\textsuperscript{532} Glasgow Climate Pact, par. 19.
\textsuperscript{533} See Glasgow Climate Pact, par. 47.
\textsuperscript{534} See Glasgow Climate Pact, par. 53.
\textsuperscript{535} Glasgow Climate Pact, par. 64.
making processes, and use their leverage as investors to influence responsible business conduct. The Commission also notes the work of the Transition Pathways Initiative (TPI) in creating tools and generating resources for investors to assess companies’ preparedness to transition to a low-carbon economy. By Integrating TPI’s data in ESG assessments, investors can better understand how their holdings fare with the pathways set by the Paris Agreement and consequently make better and more informed socially responsible investment decisions.

The Commission fully supports the Fossil Fuel Divestment Movement as a strategy to mitigate climate change. This movement calls on individual and institutional investors to divest from financial instruments connected with the fossil fuel industry to exert social, political and economic pressure upon fossil fuel companies to transition to clean energy. The movement puts to public discourse the ethics and morality of knowingly profiting from activities that cause significant harm to the climate, in general, and to the victims of climate change impacts, in particular, who are unjustly bearing the brunt of the harm even though they have least benefited from or contributed to it. The Commission hopes that this movement will gain maximum global traction and inspire more investors to use their economic power to support climate action.

4. UN and Other International Bodies

The UN and other international bodies offer a special platform to bring together world leaders and unite governments. The Commission appreciates the efforts of the UN to maximize its unique authority and efforts to realize the full implementation of the Paris Agreement – particularly Article 6 thereof – and ensure that a policy foundation governing voluntary international cooperation on climate change – including carbon markets – is put in place.

The Commission encourages the UN’s dynamism in promoting a safe climate and healthy ecology with reference to human rights. Climate change must be integrated in the monitoring of the full implementation of “existing recommendations of the treaty bodies,
the Universal Periodic Review, the special procedures mandate holders and the Office of the United Nations High Commissioner for Human Rights.”

As countries put forward NDCs with more ambitious targets, it will be judicious for the UN to also report on State compliance with human rights obligations relating to climate change.

The Commission also supports the addition of “another focal point on climate change and human rights to the UNFCCC to ensure a rights-based approach to negotiating, implementing and monitoring actions pursuant to the Paris Agreement.”

The Paris Agreement emphasizes global inclusivity and the need to provide financial, technical, and climate-related capacity-building support to developing countries. The Commission agrees that it is the role of the UN to act as a catalyst and encourage developed States to extend technical assistance and lend resources to countries that are most in need of climate mitigation and adaptation measures, and support activities addressing loss and damage arising from the impacts of climate change.

The strength of the UN and other international bodies is in their ability to secure agreements and implement normative frameworks. The Commission recognizes the role of the UN to promote guiding principles to become hard laws – including developing mechanisms and processes for hearing human rights cases, especially those concerning transboundary harm; universality of liability and cross-jurisdictional enforcement, as well as compensation and proportional liability.

Finally, recognizing that the immensity of the climate crisis and the urgency of achieving climate goals cannot be left to governments alone, the Commission supports the central role of the UN in engaging the business community to deliver climate goals. Developing binding instruments that promote responsible business standards and compel the private

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sector to respect their human rights responsibilities is necessary for more inclusive and transformative climate action.

5. NHRIṣ

The climate crisis calls not just for an evaluation of State obligations on human rights, but a more significant examination and understanding of the human rights responsibilities of businesses.

NHRIṣ “play a crucial role in promoting and monitoring the effective implementation of international human rights standards at the national level” \(^{538}\) and bridging stakeholders to “promote transparent, participatory and inclusive national processes of implementation and monitoring.” \(^{539}\) In the face of one of the greatest human rights challenges of our time, the Commission notes that NHRIṣ around the world are rising to the challenge and have increased engagements aimed at protecting climate-affected rights. \(^{540}\)

In October 2015, the Global Alliance of National Human Rights Institutions (GAHNRI) adopted the Mérida Declaration, encouraging all NHRIṣ to “influence the national process of implementation and accountability to ensure human rights are integrated in the process of tailoring and tracking goals, targets and indicators” \(^{541}\) of the 2030 Agenda for Sustainable Development. It highlighted the role of NHRIṣ to “promote remedies for all human rights violations and … use their protection powers to address serious human rights concern linked to the implementation” \(^{542}\) of development goals, including the realization of Sustainable Development Goal (SDG) No. 13 on climate action. The declaration also encouraged cooperation between NHRIṣ and private actors, reaffirming the role businesses

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\(^{539}\) The Mérida Declaration, The Role of National Human Rights Institutions in implementing the 2030 Agenda for Sustainable Development. Herein after referred to as Mérida Declaration. par. 15

\(^{540}\) NATHANIEL ELSEN & NINA ESCHKE, CLIMATE CHANGE AND HUMAN RIGHTS, THE CONTRIBUTIONS OF NATIONAL HUMAN RIGHTS INSTITUTIONS. A HANDBOOK (2020 ed.).

\(^{541}\) Mérida Declaration

\(^{542}\) Id.
can play in fulfilling the SDGs, and highlighting the need to align implementation with the UNGP and other international human rights standards.\textsuperscript{543}

A month later, in November 2015, the Commonwealth Forum of National Human Rights Institutions adopted the St. Julian’s Declaration on Climate Justice,\textsuperscript{544} the first collaborative declaration of commitments signed by NHRI\textregistered\textsubscript{s}, acknowledging and affirming their role in climate action.

More recently, during its Annual Meeting in December 2020, GANHRI adopted an outcome statement on the role of NHRI\textregistered\textsubscript{s} in combating the climate crisis.\textsuperscript{545} Recognizing that a human rights-based approach leads to more sustainable and effective climate action and policies, it called on all States to ratify and implement international and regional human rights instruments. Likewise, it called for the implementation of the provisions of the Paris Agreement, to promote human-rights based and people-centered climate action.\textsuperscript{546} Also noteworthy in the statement is the recognition of the need for climate justice, which it defined “as addressing the climate crisis with a human rights-based approach whilst also making progress towards a just transition to a zero-carbon economy.”\textsuperscript{547}

Guided by these declarations and its specific learnings from the Inquiry, the Commission recommends and encourages its fellow NHRI\textregistered\textsubscript{s} to:

\begin{enumerate}
\item Continuously engage with climate scientists and other experts in the field to keep abreast of the best available science on climate change, event attribution, as well as technological developments related thereto;
\end{enumerate}

\textsuperscript{543} Mérida Declaration, par. 11.
\textsuperscript{544} Commonwealth Forum of National Human Rights Institutions, St. Julian’s Declaration on Climate Justice, November 2015, p. 5.
\textsuperscript{546} GANHRI Statement, par. 2.
\textsuperscript{547} GANHRI Statement, par. 3.
b. Collaborate with other NHRIIs and engage in regional and international mechanisms to monitor government and business compliance with their duties and responsibilities when dealing with climate-related transboundary harms and cross-border human rights violations;

c. Ensure that climate change actions, including monitoring, investigations, decisions and legislation are participatory, transparent and accountable;

d. Contribute to the development of laws and legal frameworks on the intersection of human rights, climate change and business enterprises through monitoring, research, case studies, investigation, decision on cases and other activities within their mandates;

e. Pursue meaningful collaboration with government actors and encourage them to understand and integrate human rights obligations in national climate action policies by advising them on human rights-based approaches to climate mitigation and adaptation, through the integration of the different international climate agreements, the Sustainable Development Goals, and the adherence to the Geneva Pledge to promote and respect human rights in climate action;

f. Actively dialogue with the business sector and work for the development of normative frameworks that will embed the respect for human rights in the obligations of businesses - such as the conduct of environmental and human rights impact assessments and due diligence across all phases of their operations, as well as providing remedies in case of violations;

g. Increase monitoring and reporting on government’s compliance with business, human rights and climate change obligations and commitments, through international human rights mechanisms like the Universal Periodic Review and other treaty bodies;
h. Strengthen engagements with civil society, particularly in educating communities about the causes and impacts of climate change and how it relates to the realization of human rights in order to mainstream climate awareness in the public consciousness and drive responses ranging from individual changes of lifestyles to concerted climate actions;

i. Recognize that some climate actions are inevitable to negatively impact human rights; that the transition to a carbon-less economy would necessarily put some sectors at risk of losing their livelihoods or that evacuating those living in danger zones would necessarily lose their homes; the challenge is to find a balance towards the most just, humane and equitable climate solution; and finally

j. Commit to achieving climate justice, particularly for those acutely impacted but have least contributed to the climate crises.

6. Courts

Many individuals and organizations have now resorted to initiating actions before State-based judicial mechanisms to compel climate actions and influence the development of laws and policies in both the domestic and international spheres. Litigation has been used to compel governments to provide more ambitious emissions targets, establish the right to a healthful ecology for future generations, or delineate the role of States with regard to transboundary environmental harms.

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549 Netherlands Hague District Court [2015] HAZA C/09/00456689. Affirmed by Hague Court of Appeals and Supreme Court of the Netherlands in 2018 and 2020, respectively. [Henceforth referred to as Urgenda v. Netherlands]
551 Inter-American Court of Human Rights [2017] OC-23/17
Similarly, the progressive interpretation of laws by courts enhances regulation and addresses gaps in law where legislation may be vague or when current legislation is not up to date with developments in science.\textsuperscript{552} In the case of \textit{Massachusetts v. EPA}\textsuperscript{553} for instance, the court held that the US Environmental Protection Agency under their statute had the power to regulate GHGs, even though the statute did not specifically contemplate emissions regulation.

Courts must also interpret the law in conformity with international obligations and act as enforcement tools of States’ international obligations – including those relating to climate change.\textsuperscript{554} The coupling of international obligations with domestic regulation is not new. The courts in \textit{Urgenda v. Netherlands} and \textit{Leghari v. Pakistan} established their States’ commitments under international conventions as part of their domestic obligations to their citizens. In \textit{Pro Public v. Godavari Marble Industries Pvt. Ltd.},\textsuperscript{555} the court established that mining in a protected area is inconsistent with the principles found in international environmental protection and the Nepal Constitution.

The judiciary may also grant remedies not expressly provided by laws. “\textit{[T]he imprimatur of the courts confers considerable legitimacy on the operation of the administrative state[;] [...] courts have considerable latitude to develop law on their own.}”\textsuperscript{556} A review of government acts has been accepted by courts to compel public agencies and offices to act and revise policies.\textsuperscript{557} Civic organizations and individuals have used the threat of judicial review to compel governments into climate action.\textsuperscript{558}

\textsuperscript{553} United States Supreme Court [2007] 549 U.S. 497 (2007)
\textsuperscript{555} Supreme Court of Nepal [2015] 068–WO–0082
Judiciaries worldwide have also provided remedies that protect the environment and the people affected by environmental degradation. Examples of these are the Tutela\textsuperscript{559} wri, found in Latin American countries and the Writ of Kalikasan\textsuperscript{560} in the Philippines. These special wrihs have been consistently used by their respective courts to protect the environment.\textsuperscript{561} Regional courts have also promoted remedies by issuing Advisory Opinions to help clarify the duties and rights relative to the environment and transboundary harm.\textsuperscript{562}

“In the climate change context, courts have moved beyond their primary function of resolving disputes between private individuals and are now being used by public interest litigants as vehicles for achieving social change.”\textsuperscript{563} The Commission encourages all courts to embrace their power to influence and inspire governmental action. However, caution must be exercised to avoid “overly aggressive judicial review [that] has the potential to engender administrative ossification — agency paralysis — among other phenomena.”\textsuperscript{564} Thus, without favoring any particular party or going beyond their authority, courts should strive to inform, determine, explain and uphold, through their decisions, the rights and obligations of parties concerning particular climate laws, policies and issues. In dismissing claims, courts should clarify the factual and legal bases that were found wanting or insufficient to provide guidance not only to the parties but also to future actions. It should be emphasized that even when courts do not rule in favor of the claimants, they still contribute to meaningful climate response through their elucidation of the law and the rights and obligations of the parties. Judicial contribution to the development of the law

\textsuperscript{559} 1991 Constitution of Columbia (Revised 2015)
\textsuperscript{560} 2010 Rules Of Procedure For Environmental Cases. A.M. No. 09-6-8-SC
\textsuperscript{562} Inter-American Court of Human Rights [2017] Advisory Opinion Concerning the Interpretation of Article 1(1), 4(1) and 5(1) of the American Convention on Human Rights
and jurisprudence on various climate issues is indispensable to the success of the global climate action.

In the determination of claims and liabilities, courts may take judicial notice of the findings of NHRIs or other similar bodies.

7. NGOs, CSOs, and the Legal Profession

i. NGOs and CSOs

No less than the Human Rights Council has emphasized that “civil society actors have an important and legitimate role in promoting corporate social responsibility, and in preventing, mitigating and seeking remedy for the adverse human rights impacts of transnational corporations and other business enterprises.”565 With the growing power of multinational companies and the shrinking influence of governments, NGOs and CSOs have become the third force alongside the public and private sectors in promoting and ensuring human rights with respect to companies.566

The Commission recommends that NGOs and CSOs continuously engage in strategic litigation to strengthen business and human rights norms, change public policy, increase government ambition, and create binding precedents catalyzing the movement towards zero-carbon energy.

ii. Legal Profession

Justice Brian Preston567 explains the role that lawyers play in climate change:

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566 Chris Jochnick and Louis Bickford, The Role of Civil Society in Business and Human Rights, in BUSINESS AND HUMAN RIGHTS FROM PRINCIPLES TO PRACTICE 258 (Dorothee Baumann-Pauly and Justine Nolan eds., 2016).
567 Chief Judge of the Land and Environment Court of New South Wales.
Recognising that addressing climate change depends on responses on a small scale, and that any legal action which involves climate change issues will impact on climate change policy, gives rise to a responsibility on lawyers to be aware of climate change issues in daily legal practice. It calls for a climate conscious approach rather than a climate blind approach. A climate blind approach is where the outcome of the legal problem or dispute will have some impact on climate change issues, but legal advice is given or the dispute is litigated or resolved without any attention to climate change issues. A climate conscious approach requires an active awareness of the reality of climate change and how it interacts with daily legal problems. A climate conscious approach demands, first, actively identifying the intersections between the issues of the legal problem or dispute and climate change issues and, secondly, giving advice and litigating or resolving the legal problem or dispute in ways that meaningfully address the climate change issues.\footnote{Preston, B., Implementing a climate conscious approach in daily legal practice, 04 December 2015, p. 2.}

The Commission shares Preston’s view and that of the International Bar Association (IBA) that the global response to climate change entails, if not inevitably requires, a host of legal proceedings if any success is to be gained. Lawyers around the world will be called upon to represent the conflicting rights and interests of States, corporations, communities and individuals impacted by the climate crisis. Thus, “the legal profession must be prepared to play a leading role in maintaining and strengthening the rule of law and supporting responsible, enlightened governance in an era marked by a climate crisis.”\footnote{International Bar Association, Climate Crisis Statement, 05 May 2020. Accessed at https://www.ibanet.org/Article/NewDetail.aspx?ArticleUid=cac6e15d-ec80-4669-9025-2773e9019519.}

In whatever side or capacity lawyers may find themselves in these proceedings, the Commission appeals to them to work towards the development of laws and legal systems that will justly protect and uphold the common interest of humankind. To this end, the Commission calls on lawyers to generously lend their expertise towards improving or creating a legal framework for climate accountability in their localities, which may inform
and ultimately become one of the bases for the development of a global legal framework for addressing the challenges posed by climate change.

8. Global Citizens

Finally, the Commission calls on all citizens of the world, as stewards of nature, to do their just share in caring for our common home. Much has been said about the legal and moral obligation of governments and private enterprises, including carbon-intensive industries. Yet, as individual consumers, each one of us must also take responsibility for the role of our consumption habits in climate-related human rights impacts.

Indeed, “an important contributor to global emissions is over-consumption.”570 Consequently, a just transition toward a carbonless economy cannot be achieved through mere technological innovations and global changes in national policies, but also necessarily includes reduction in demand by altering consumer habits and mindsets. Thus, the Commission invites self-reflection to examine whether our behavior contributes to excessive and irresponsible consumerism, and recommends that we consciously take steps to reduce our carbon footprint and make positive choices to adopt a climate-friendly lifestyle consistent with global efforts for climate change mitigation and adaptation.

The Commission encourages global citizens to be informed consumers, shareholders, and investors. Knowledge of production chains, corporate values, and business practices and the individual consumption and investment choices made based on this information will ultimately shape and fuel the global response to climate change. Support must be given to clean and green products and business enterprises instead of those that seek to profit at the cost of the destruction of our common home.

Pope Francis in his encyclical letter, *Laudato Si’*, reminds us that we need “leadership capable of striking out new paths and meeting the needs of the present with concern for all

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570 Expert Group on Climate Obligations of Enterprises, Principles on Climate Obligations of Enterprises, 30.
and without prejudice towards coming generations.\textsuperscript{571} Thus, the Commission calls on all global citizens to elect responsible leaders. Individual efforts will be for naught if those in power or those who make and influence policies are blind to the plight of the planet. Everyone must exercise their right to vote in favor of those who will champion the fundamental human right of present and future generations to live with dignity in a home safe from the grave and fatal impacts of climate change.

\textbf{B. Additional / Particular Recommendations to the Philippine Government}

1. The General Climate Policy in the Philippines

At the core of the Philippine environmental policy is the 1987 Constitution which establishes Filipinos’ “right to a balanced and healthy ecology in accord with the rhythm and harmony of nature.”\textsuperscript{572}

In 1991, the Inter-Agency Committee on Climate change\textsuperscript{573} was created in preparation for the first Conference of Parties. Soon after, the Philippines signed and adopted the UNFCCC and the Kyoto Protocol. In 1999, Congress passed the Clean Air Act\textsuperscript{574} outlining the country’s response to industrial emissions and air pollution, and mandating the incorporation of environmental protection in development plans.

The next decade saw the strengthening of the Philippines’ climate response through the enactment of the Climate change Act of 2009\textsuperscript{575} – a law that mainstreamed climate change in government policy formulation, established the framework strategy and program on climate change, and created the Climate change Commission (CCC).

\textsuperscript{571} Laudato Si par. 53.  
\textsuperscript{572} 1987 Constitution of the Republic of the Philippines, Article II, Section 16  
\textsuperscript{573} Presidential Administrative Order No. 220, s. 1991, Creation of an Inter-Agency Committee on Climate Change  
\textsuperscript{574} Republic Act No. 8749, Clean Air Act of 1999  
\textsuperscript{575} Republic Act No. 9279, Climate Change Act of 2009
It also mandated the creation of two policy documents that would guide the country’s integrated action on climate change - the National Framework Strategy on Climate change 2010 – 2022 (NFSCC) and the National Climate change Action Plan 2011 – 2028 (NCCAP).

The NFSCC envisioned “a climate risk-resilient Philippines, with healthy, safe, prosperous and self-reliant communities, and thriving and productive ecosystems.”\(^{(576)}\) Its goal was “to build the adaptive capacity and increase the resilience of natural ecosystems to climate change, and optimize mitigation opportunities towards sustainable development.”\(^{(577)}\) Formulated within the context of the Philippines’ sustainable development goals, it considered governance and institutional factors that may limit the country’s capacity to respond to climate change.\(^{(578)}\) It identified climate change impacts and vulnerabilities and set key result areas to be pursued in climate-sensitive sectors through adaptation and mitigation strategies. The NFSCC mitigation pillar relies on “pursuing cost-effective measures to reduce GHG emissions, including increased energy efficiency and conservation, development and increased utilization of appropriate low carbon and renewable energy technologies, and reducing emissions from deforestation and degradation.”\(^{(579)}\) However, mitigation is treated as a function of adaptation\(^{(580)}\) and more emphasis is given on adaptation due to the “country’s geophysical and socio-economic characteristics,” and the “risks associated with current climate variability and extremes.”\(^{(581)}\)

A year after the NFSCC was signed, its framework and guiding principles were translated into the NCCAP. The NCCAP outlined the country’s strategic direction for adaptation and mitigation from 2011 to 2028. It laid down the government’s short-, medium- and long-term plans and expected outputs in the seven thematic areas of food security, water security, ecological and environmental stability, human security, climate smart industries

\(^{(577)}\) NFSCC, Section 2.2.
\(^{(578)}\) NFSCC, Section 6, para. 4.
\(^{(579)}\) NFSCC, p. 20
\(^{(580)}\) NFSCC, Section 6, para. 5.
\(^{(581)}\) NFSCC, p.27
and services, sustainable energy, and knowledge and capacity development. Six of the seven NCCAP priority areas are focused on adaptation. The NCCAP also highlighted the convergence between adaptation and disaster risk reduction and management.

In 2010, the Disaster Risk Reduction and Management Act was passed. The law provides for an “approach that is holistic, comprehensive, integrated, and proactive in lessening the socioeconomic and environmental impacts of disasters including climate change, and promote the involvement and participation of all sectors and all stakeholders concerned, at all levels, especially the local community.” Notable in the law is the mainstreaming of disaster risk reduction in several sectors including land-use planning, budget, infrastructure, education, health, environment, and housing; and the creation of disaster risk reduction offices in every province, city, and municipality.

In 2012, the People’s Survival Fund was established to finance the adaptation programs and projects based on the NFSCC and the NCCAP. It has an annual allocation of at least one billion Pesos, which may be augmented by donations, endowments, grants and contributions. However, to date, only six (6) approved climate change projects utilizing the said fund have been approved. These are: 1) Disaster Risk Reduction & Management Response as Coping Mechanism to Resiliency in Lanuza, Surigao del Sur; 2) Siargao Climate Field School for Farmers and Fisherfolk in the Municipality of Del Carmen, Siargao Islands, Surigao del Norte; 3) Building Resilience through Community-based Ecological Farming in San Francisco, Camotes Island, Cebu; 4) Promoting Resiliency and Climate-Informed Gerona in Gerona, Tarlac; 5) Saub Watershed Ecosystem Rehabilitation and Flood Risk Reduction for Increased Resilience to Climate change and

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582 Republic of the Philippines Intended Nationally Determined Contribution Communicated to the UNFCCC on October 2015, p. 2, available online at https://www4.unfccc.int/sites/submissions/INDC/Published%20Documents/Philippines/1/Philippines%20-%20Final%20INDC%20Submission.pdf
583 Philippine DRRM Act of 2010
584 Philippine DRRM Act of 2010, sec. 2 (d)
585 Republic Act No. 10174, An Act Establishing the People’s Survival Fund to Provide Long-Term Finance Streams to Enable the Government to Effectively Address the Problem of Climate Change, Section. 13.
Natural Hazards in Sarangani; and 6) Establishment and Sustainable Management of River Ecosystem in Kitcharao, Agusan del Norte.\textsuperscript{586}


During the last quarter of 2020, after Super Typhoon Vamco (local: Ulysses) battered the Philippines and caused massive floods and deaths, the House of Representatives passed House Resolutions No. 1377 and 535, seeking to declare a climate emergency and enjoining a “\textit{whole-of-government, whole-of-society, and whole-of-nation policy response to anticipate, halt, reduce, reverse, address, and adapt to its impacts, consequences, and causes.}\textsuperscript{587}” Although non-binding, the resolution expressed the general sentiment of local representatives – or half of the bicameral Congress. A similar bill\textsuperscript{588} is pending before the Senate. Several local government units have also declared climate emergencies in their localities.

In 2015, the Philippines communicated its intended Nationally Determined Contribution (INDC) to the UNFCCC, pledging “\textit{GHG (CO2e) emissions reduction of about 70\% by}
2030, relative to its BAU scenario of 2000-2030.”\textsuperscript{589} This was anchored on reducing carbon emissions by the energy, transport, waste, forestry, and industry sectors. However, “the mitigation contribution is conditioned on the extent of financial resources, including technology development and transfer, and capacity building, that will be made available to the Philippines.”\textsuperscript{590} In 2017, the Philippines submitted its Instrument of Accession to the Paris Agreement, with an express provision that the country’s first NDC will be submitted before 2020. However, it was only on 15 April 2021, that the said NDC was communicated to the UNFCCC.

Through the NDC, the Philippines committed “to a projected GHG emissions reduction and avoidance of 75%, of which 2.71% is unconditional and 72.29% is conditional, representing the country’s ambition for GHG mitigation for the period 2020 to 2030 for the sectors of agriculture, wastes, industry, transport, and energy. This commitment is referenced against a projected business-as-usual cumulative economy-wide emission of 3,340.3 MtCO2e 12 for the same period.”\textsuperscript{591} “The implementation of the mitigation commitments shall be undertaken through bilateral, regional and multilateral cooperation,” and “market and non-market mechanisms under Article 6 of the Paris Agreement.”\textsuperscript{592} The NDC is anchored on enhanced access to climate finance, technology transfer and development, and capacity building.

Noticeably, the NDC mitigation commitment is 5% higher than that indicated in the INDC. The NDC likewise promotes education, public awareness, and meaningful inclusive collaboration with vulnerable sectors, and “upholds the importance of ensuring ecosystems integrity and promoting the country’s obligations on human rights and the rights of indigenous peoples.”\textsuperscript{593}

\textsuperscript{589} Id.
\textsuperscript{590} Id.
\textsuperscript{591} NDCs of the Philippines available at: https://www4.unfccc.int/sites/ndcstaging/PublishedDocuments/Philippines%20First/Philippines%20-%20NDC.pdf. Hereinafter referred to as Philippine NDCs
\textsuperscript{592} Philippine NDCs
\textsuperscript{593} Philippine NDCs
The Judiciary also plays and continues to play a significant role in environmental protection. In the oft-cited case of Oposa v. Factoran, the Supreme Court recognized the right of current and future generations to a balanced and healthful ecology. The Court, in MMDA v. Concerned Residents of Manila mandated the clean-up of Manila Bay through a Writ of Continuing Mandamus - an order not usually used in environmental cases.

In 2009, the Supreme Court issued the Rules of Procedure for Environmental Cases, which introduced the Writ of Kalikasan, a special civil action “on behalf of persons whose constitutional right to a balanced and healthful ecology is violated, or threatened with violation, by an unlawful act or omission of a public official or employee, or private individual or entity, involving environmental damage of such magnitude as to prejudice the life, health or property of inhabitants in two or more cities or provinces.” This procedural remedy allows for a “citizen suit” and permits any Filipino citizen – representing minors and generations yet unborn – to file an action for violations of environmental laws. The Court, in Metropolitan v. Concerned Residents of Manila Bay affirmed that the need to give animals (in this case resident marine mammals of the Tañon Strait) “legal standing has been eliminated by our Rules [for Environmental Cases], which allow any Filipino citizen, as a steward of nature, to bring a suit to enforce our environmental laws.”

The Rules of Procedure for Environmental Cases further provide that when there is a lack of full scientific certainty in establishing a causal link between human activity and environmental effect, the court shall apply the precautionary principle in resolving the case.

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594 Oposa et. al. v Fulgencio S. Factoran, Jr. et. al, G.R. No. 101083 (224 SCRA 792)
596 A.M. No. 09-6-8-SC, effective 29 April 2010.
597 Rules of Procedure for Environmental Cases, A.M. No. 09-6-8-SC, Rule 7
598 Ibid., Rule 2, Part II, Civil Procedure, Section 5. Citizen suit. — Any Filipino citizen in representation of others, including minors or generations yet unborn, may file an action to enforce rights or obligations under environmental laws. Upon the filing of a citizen suit, the court shall issue an order which shall contain a brief description of the cause of action and the reliefs prayed for, requiring all interested parties to manifest their interest to intervene in the case within fifteen (15) days from notice thereof. The plaintiff may publish the order once in a newspaper of a general circulation in the Philippines or furnish all affected barangays copies of said order.
599 Resident Marine Mammals v. Reyes, G.R. No. 180771 April 21, 2015
before it and the constitutional right of the people to a balanced and healthful ecology shall be given the benefit of the doubt. Section 2 of said rules provide for the standards to be used by courts in applying the precautionary principle to environmental cases, viz.:

SEC. 2. Standards for application. —In applying the precautionary principle, the following factors, among others, may be considered: (1) threats to human life or health; (2) inequity to present or future generations; or (3) prejudice to the environment without legal consideration of the environmental rights of those affected.

In Osmeña v. Garganera, the Supreme Court declared that while it has “jurisdiction and power to decide cases, [it] is not precluded from utilizing the findings and recommendations of the administrative agency on questions that demand the exercise of sound administrative discretion requiring the special knowledge, experience, and services of the administrative tribunal to determine technical and intricate matters of fact.” The court emphasized that the Writ of Kalikasan was designed to give stronger protection for environmental rights; provide speedy and effective resolution to cases involving violations of the right to a healthful and balanced ecology that transcends political and territorial boundaries; and to address the potentially exponential nature of large-scale ecological threats.

However, to date, there are no Philippine laws, policies, or jurisprudence on the intersectionality between business and Human rights, on the one hand, and climate change, on the other.

2. Recommendations

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Section 1, Rule 20, Evidence, Part V, SC AM No. 09-6-8-SC.


The Philippines has a wide-ranging set of laws, policies, and institutions seeking to address the impacts of climate change. Both national laws and sectoral policies integrate climate mitigation and adaptation plans into their development plans. In fact, Margareta Wahlström, special Disaster Risk Reduction representative of the UN Secretary General, in a press conference said the country has “an excellent legal framework for disaster risk reduction and an excellent framework for climate adaptation.”

Despite this, GHG emissions continue to rise, and thousands of Filipinos continue to perish, become sick, or suffer the loss of heritage and properties. The problem is found in the weak enforcement of laws. Even with lofty international pledges on emission cuts and dedicated climate legislation, implementation depends on the political will of the ruling administration – leaving much to the caprice of politicians.

The Philippine government exhibits mediocre actions to meet the Paris Agreement climate commitments. Actions from the Executive are inconsistent with Legislative resolutions – with moves to reopen closed mines, continuous coal-based electricity generation, coal expansion, and public declarations by the President suggesting that international climate conferences are useless.

The Commission thus recommends the following to the Philippine government:

i. Recommendations Particular to the Executive Department

   a. Commit to the implementation of the UNGP and Formulate a National Action Plan on Business and Human Rights

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The government should make a clear commitment to the UNGP and bring to life its three pillars: the State duty to protect human rights; the corporate responsibility to respect human rights; and access to remedies for human rights abuses. In line with this, the government should provide a clear policy on business and human rights, codify the expected conduct of businesses, promote an understanding of how bringing human rights to the forefront of business practices stimulates success, and design remediation measures for victims of corporate human rights abuses.

The Commission recommends the adoption of a National Action Plan on Business and Human Rights (NAP) to support the implementation of the UNGP, and ensure that business enterprises, in the conduct of their activities, do not infringe on the fundamental freedoms of individuals and communities.

The NAP must: 1) summarize and review all government initiatives in relation to business and human rights; 2) ensure policy coherence by identifying gaps and including new measures in furtherance of the implementation of the UNGP; 3) provide information on how private actors might violate human rights, including directives on due diligence processes and prevention actions; 4) require accountability for human rights abuses by corporations and private business enterprises; 5) stipulate victim-centric legal and non-legal mechanisms for redress of business-related human rights violations; and 6) contain monitoring provisions to guarantee continuous compliance by business enterprises.

The Commission also recommends forming an interdepartmental and multi-stakeholder working group to design the initial NAP and thereafter conduct regular reviews and follow-ups.

b. Declare a Climate and Environmental Alert

The government must recognize the need for urgent measures to address the impacts of climate change. There must be an acknowledgement that anthropogenic climate change, if left unmitigated, can and will lead to global extinction; that existing measures to combat
its consequences must be improved; and that long-term measures for adaptation, mitigation, and resiliency must be translated to concrete actions.

The declaration must specify in no uncertain terms the need to address climate action as a national priority and require the 1) mainstreaming of climate science and climate response into national and local policies and legislation; 2) alignment of sectoral development priorities and socioeconomic development plans with climate targets; 3) mobilization and proper allocation of international and domestic financial resources; 4) involvement of the private sector in climate actions; and 5) the immediate and just transition to a low-carbon economy.

c. Revisit the NDC

The NDC mentions GHG mitigation targets for the agriculture, wastes, industry, transport, and energy sectors but fails to mention the forestry sector – seemingly disregarding the importance of forest covers as effective carbon sinks, and the contribution of deforestation and change in land cover to the net release of CO₂ and rise in global temperatures. The Commission recommends the revision of the NDC to include the forestry sector in GHG mitigation – not just adaptation - targets.

The Commission also recommends including sectoral baseline data to serve as a basis for the evaluation of the effectiveness of climate policies and projects for each sector.

Further, the Commission recommends the inclusion of concrete methodologies and investment plans to ensure implementation across all sectors, enhance access to climate finance, and to get policy support from other States.

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Last, and perhaps most important, is the need to increase the 2.71% unconditional targets. The government must avoid reliance on external support offered by undetermined cooperation agreements as these are often dependent on the will of higher-income states. The Commission recommends that the Climate Change Commission revisit the targets set in the NDC to genuinely achieve the goals set in the Paris Agreement.

d. Implement Coal Moratoriums and Spearhead Transition to Renewable Energy and Cleaner Energy Sources

In October 2020, the Department of Energy declared a moratorium on endorsements of greenfield coal power plants and emphasized the need to transition to a more flexible power supply mix that allows “the entry of new, cleaner, and indigenous technological innovations.” However, the coal moratorium does not cover projects previously approved by the department, nor does the most recent draft Philippine Energy Plan (PEP) reflect this moratorium.

The Commission therefore recommends the formulation of a coal-exit policy to spur the transition of the country to cleaner energy sources.

Measures to create an electricity market favoring renewable energy must urgently be established. This can include: a) tax breaks for ‘green’ investments and jobs; b) actualization of the National Renewable Energy Program which provides the blueprint towards a triple renewable energy capacity by 2030; and c) crafting of renewable market rules mandating renewable auctions for a more competitive electricity market. Policy measures, including subsidies for wind, solar, hydropower, and other renewable energy sources, must be designed, together with measures to improve energy efficiency standards and regulations.

e. Transition to Low-Carbon Transportation Systems

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The Commission recommends adopting the Asian Development Bank (ADB) - Sustainable Transport Initiative *avoid-shift-improve* approach to reduce GHG emissions from the transport sector\(^{610}\). This includes policies that will discourage unnecessary travel, create more energy efficient routes, modernize railways and the public transport system, and improve vehicle energy efficiency through better inspection and enforcement.

The Commission also recommends enacting laws establishing a policy and regulatory framework for electric vehicles (EV), including infrastructure development and fiscal and non-fiscal incentives for EV manufacturers and users. This must be accompanied by the phase-out of internal combustion engines within a reasonable time, taking into consideration human rights issues of workers and other actors that may be affected by this.

**g. Implement ‘Reducing Emissions from Deforestation and Forest Degradation Plus’ (REDD+) Measures**

The UNFCC, understanding the critical role of forests in carbon sequestration and climate change mitigation, initiated the REDD+ framework to promote the role of conservation, sustainable forest management, and forest carbon stock enhancement. Likewise, the Philippines has a National REDD+ Strategy in place. However, as with many countries, its implementation is hampered by weak governance, lack of financial and technical support, and conflicting interests with local government development plans.

The Commission recommends the strict implementation of the Philippine National REDD+ Strategy, both at the national and local level. Local sources must supplement funding from external sources to ensure the continuity of projects. Further, it is necessary to create and strengthen mandatory reforestation programs. A logging ban in all natural forests must also be imposed and strictly implemented. Lastly, land-use planning and management must be made more climate and human rights sensitive.

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\(^{610}\) ADB, Addressing Climate Change in Transport, accessed at: https://www.adb.org/sectors/transport/key-priorities/climate-change
h. Implement Data Building and Reporting Mechanisms

The Commission recommends the passage of a framework policy mandating sharing, reporting, and verification of climate data – bringing together the country’s robust network of scientists, meteorologists, and researchers both in the government and private sector. A central database that will facilitate analysis, sharing, verification, and communication among the various stakeholders and duty-bearers will lead to effective adaptation and mitigation strategies including infrastructure development, coastal planning, climate risk reduction, and forest management. Reviews and evaluation of effectivity of climate actions must also be quantified by proper data.

ii. Recommendations particular to the Legislative Department

a. Enact Laws Imposing Legal Liabilities for Corporate or Business-related Human Rights Abuses

The Commission recommends enacting laws that mandate business compliance with the UNGP and other human rights treaties and instruments. Domestic laws must clearly set out jurisdiction over cases involving human rights abuses committed by non-state actors, provide sanctions for such abuses, and provide legally demandable reparations to the victims. This must necessarily include redress for transboundary harms felt by victims domiciled in the Philippines, regardless of juridical personality or local presence of erring corporation.

b. Amend Climate Change Act, Disaster Risk Reduction and Management Act, and other related regulations to create a singular Climate Code

In order for the Government to have a unified, holistic, and complete approach to tackling climate change, the Commission recommends that the Philippine Climate Change Act, the
Disaster Risk Reduction and Management Act, and all other related regulations the be merged into one complete instrument with the following additions:

1) A legally binding GHG emissions reduction target with reference to the NDCs;
2) A five-year carbon budget or statutory cap on GHG emissions to meet reductions target;
3) Incentive mechanisms to achieve reductions target including tax breaks and subsidies for transitioning to a zero-carbon economy;
4) Fossil fuel exploration and coal plant moratorium;
5) Carbon footprint due diligence and reporting requirements for all public and private enterprises;
6) Annual government review of emission reductions and energy supply decarbonization commitment compliance;
7) Strengthening of disaster risk and climate change mitigation efforts (as opposed to the current emphasis on post-disaster relief and short-term preparedness);
8) Provisions on post-disaster support for economic recovery;
9) Redress mechanisms for victims of climate impacts including compensation for all forms of harm including human rights harm;

10) Mandate corporate contribution to a climate fund which shall be apportioned equally to mitigation, adaptation, post-disaster recovery, and victim compensation;
11) Provide a percentage tax on carbon fuel profits after company taxes to fund climate education;
12) Penal provision for non-compliance with any provisions of the Code

iii. Recommendation particular to the Judiciary

a. Design and Implement Rules of Evidence for Attributing Climate Change Impacts and Assessing Damages
There is a distinction between the science of event attribution and the establishment of legal causation. Event attribution is not a direct reconstruction of how each carbon contribution of an individual caused damage through climate change. Instead, it seeks to establish: (i) whether the likelihood or strength of a natural event has changed in the observational record, and (ii) whether this change is consistent with the anthropogenic influence as found in one or more climate models. Assessment of the “Fraction of Attributable Risk” is often misunderstood and misapplied in the context of legal causation where a clear unbroken chain of events leading up to the injury or damage is necessary to establish liability.

In many jurisdictions, courts evaluate evidence linking actors to climate-related losses using the stringent standards of legal causation. This disregards the work of climate and attribution science, and causes more climate injustice.

The Commission therefore recommends that the judiciary take notice of developments in the science of attribution when considering legal causality in assessing climate change impacts and damages.

b. Take judicial notice of the anthropogenic nature of climate change

The scientific community has long reached a consensus that climate change is induced by human activity. In the Sixth Assessment Report (AR6), the IPCC stated that it is unequivocal that the climate change currently being experienced is anthropogenic in origin. As discussed in earlier chapters, it has been concluded that human activities have caused significant changes in the key global climate change indicators. In light of this uncontroverted evidence, courts should take judicial notice that climate change is unequivocally anthropogenic, as supported by incontrovertible data.

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