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A COMPARATIVE ANALYSIS OF CORPORATE ENVIRONMENTAL RESPONSIBILITY: EXAMINING THE IMPLEMENTATION OF INTERNATIONAL ENVIRONMENTAL LAW IN GLOBAL BUSINESS ACROSS JURISDICTIONS

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ABSTRACT

Businesses throughout the world are being held more accountable for their environmental effect in response to growing environmental concerns and the urgent demand for sustainability. Corporate Environmental Responsibility (CER) has arisen as an ideal model for incorporating environmental care into business operations. Countries such as India, the United States, Germany, South Korea, Japan, Brazil, and China use different ways to integrating International Environmental Law (IEL), influenced by local rules, economic objectives, and cultural views.

The global community has seen substantial progress in environmental regulation, ranging from the United States' Clean Air Act to Germany's circular economy efforts. Emerging economies such as India and Brazil have taken creative steps under difficult conditions, encouraged by international frameworks. These variances in environmental responsibility reflect the intricate interplay of international treaties, national legislation, and company behavior.

The comparative research investigates how corporate governance, stakeholder involvement, and globalization interact with environmental accountability across jurisdictions. The research aims to better understand the routes for aligning corporate responsibility with global sustainability goals by finding gaps and synergies in CER practices.

Keywords: Corporate Environmental Responsibility, International Environmental Law, Sustainability, Global Governance, Environmental Accountability.

Introduction

In this era where environment faces rapid challenges, Corporate Environmental Responsibility (CER) emerged as a significant tool which align the business entities with the sustainability goals. The United Nations Conference on Human Environment (1972) also known as Stockholm Conference righteously proclaims that man is both creator and the moulder of the environment 1439. The power

vested with men when used wisely can transform the environment and can bring opportunities which can enhance the qualify of life. If the same powers are used wrongly, it can harm both human race and human environment 1440. Nations saw an emerging need to balance the destruction caused to the environment by the human action. The Stockholm Conference became the first ever world conference to consider environment as a major issue. The conference came up with 26

https://docs.un.org/en/A/CONF.48/14/Rev.1 (Accessed on March 20, 2025).

1440 ibid

 ¹⁴³⁹ United Nations, Report of the United Nations Conference on the Human Environment, Stockholm, 5–16 June 1972, A/CONF.48/14/Rev.1 (New York: United Nations, 1973), p. 3-5. Available at:



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principles and an Action Plan for human environment¹⁴⁴¹.

One of the major results of the conference was the creation of United Nations Environment Programme (UNEP)1442. Its mission is to inspire, inform and enable the nations and its people to live a quality life. For more than 50 years, UNEP has collaborated with governments, stakeholders, and other partners to raise global living standards and solve the most critical environmental issues¹⁴⁴³. It is a leading global authority on the environment, and it aims to strengthen its collaboration with the private businesses in fulfilling the agenda 2030 and to achieve Sustainable Development Goals. The same was mentioned in the UNEP's 2023 Annual Report on Private Sector Partnerships 1444. The report explicitly mentions the key role of private in addressing the three environmental crises; climate change, nature and biodiversity loss and pollution. 1. For more than 50 years, UNEP has collaborated with governments, stakeholders, and other partners to raise global living standards and solve the most critical environmental issues.

The conference brought together political leaders, diplomats, and non-governmental organization officials from 179 countries to address the environmental effect of human socioeconomic activities1445.

Building on this foundation, the UNCED-often called the Earth Summit-produced the Rio Declaration on Environment and Development, a set of 27 principles guiding sustainable development, including the precautionary approach (Principle 15) and polluter pays

¹⁴⁴¹ United Nations (1972) Report of the United Nations Conference on the Human Environment. Available

https://www.un.org/en/conferences/environment/stockholm1972 (Accessed on March 20,2025

principle (Principle 16), which directly influence CER by holding corporations accountable for environmental impacts¹⁴⁴⁶. Alongside it, Agenda 21 emerged as a comprehensive action plan, urging businesses to integrate sustainability into their operations¹⁴⁴⁷. The Rio+20 Conference reaffirmed these commitments, emphasizing corporate roles in green economies1448.

The United Nations Framework Convention on Climate Change (UNFCCC), established at Rio, led to the Kyoto Protocol (1997) and Paris Agreement (2015), setting binding emission targets that shape corporate responsibilities¹⁴⁴⁹¹⁴⁵⁰. The Intergovernmental Panel on Climate Change (IPCC) supports these efforts with scientific reports, such as Global Warming of 1.5°C, pressing corporations to act¹⁴⁵¹. Voluntary frameworks like the United Nations Global Compact (UNGC), Guidelines for Multinational Enterprises, ISO 14001, and Equator Principles further guide CER¹⁴⁵²¹⁴⁵³¹⁴⁵⁴¹⁴⁵⁵. Legal theories of monism and dualism affect implementation, as seen in cases like India's Vellore Citizens Welfare Forum Union India (1996),embedding international norms into domestic law¹⁴⁵⁶.

CER Explained

what's Corporate So. Environmental Responsibility (CER) all about? Corporate Environmental Responsibility (CER) represents a

¹⁴⁴² UN General Assembly, Rio Declaration on Environment and Development, United Nations, 1992. Available at: $https://www.un.org/en/development/desa/population/migration/general assembly/docs/global compact/A_CONF.151_2$ 6_Vol.I_Declaration.pdf (Accessed on March 20, 2025).

¹⁴⁴³ UNEP (n.d.) Our Work. Available at: https://www.unep.org/our-work (Accessed on Mar. 23, 2025).

¹⁴⁴⁴ UNEP (2023) Annual Report on Private Sector Partnerships. Available at: https://www.unep.org/resources/report/annual-report-private-sectorpartnerships-2023 (Accessed on Mar. 23, 2025).

¹⁴⁴⁵ United Nations (1992) Report of the United Nations Conference on Environment and Development. Available https://www.un.org/en/conferences/environment/rio1992 [Accessed 8 April 2025].

¹⁴⁴⁶ Supra note 4

⁽¹⁹⁹²⁾ Nations Agenda https://sustainabledevelopment.un.org/content/documents/Agenda21.pdf [Accessed 8 April 2025].

United Nations (2012) The Future We Want. Available at: https://sustainabledevelopment.un.org/rio20/futurewewant April 2025].

¹⁴⁴⁹ UN Framework Convention on Climate Change, Kyoto Protocol, United Nations, Treaty Series, vol. 2303, p. 162, 1997. Available at: https://unfccc.int/kyoto_protocol [Accessed 8 April 2025].

¹⁴⁵⁰ UN Framework Convention on Climate Change, Paris Agreement, United Nations, 2015. Available at: https://unfccc.int/process-and-meetings/theparis-agreement/the-paris-agreement [Accessed 8 April 2025].

¹⁴⁵¹ IPCC (2018) Global Warming of 1.5°C. Available https://www.ipcc.ch/sr15/ [Accessed 8 April 2025].

UNGC (n.d.) The Ten Principles. https://www.unglobalcompact.org/what-is-gc/mission/principles [Accessed 8 Âpril 2025]. 1453 ibid

¹⁴⁵⁴ *ibid*

 $^{^{1455}}$ Equator Principles (2020) The Equator Principles. Available at: https://equator-principles.com/ [Accessed 8 April 2025]. 1456 Vellore Citizens Welfare Forum v. Union of India, A.I.R. 1996 S.C. 2715



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critical framework through which business entities are held accountable for mitigating their environmental impact while contributing goals. sustainable development company's obligation encompasses reduce its ecological footprint-through measures such as minimizing emissions, managing waste, and conserving resourcesand aligns corporate practices with broader environmental objectives¹⁴⁵⁷. Often positioned scope Corporate within the of Responsibility (CSR), CER specifically addresses environmental stewardship, emphasizing compliance with regulations and proactive sustainability initiatives.

The development of CER is deeply rooted in international environmental law, which establishes the legal and normative basis for corporate obligations. The Paris Agreement, adopted in 2015 under the United Nations Framework Convention on Climate Change (UNFCCC), mandates nations to limit global temperature increases to below 2°C, translating into national policies that impose emission reduction targets on corporations¹⁴⁵⁸. Similarly, the Kyoto Protocol, enacted in 1997, introduced binding commitments for developed countries reduce greenhouse gas emissions, influencing corporate environmental practices through domestic legislation¹⁴⁵⁹. These international agreements provide a foundation national governments adapt enforceable regulations affecting business operations.

In addition to mandatory frameworks, voluntary instruments significantly shape CER. The United Nations Global Compact (UNGC), launched in 2000, encourages businesses to adopt ten principles, three of which focus on environmental responsibility, including adoption of proactive measures to address ecological challenges¹⁴⁶⁰. The ISO 14001

1457 United Nations (n.d.) Corporate Social Responsibility and the Environment. Available at: https://www.un.org/en/sections/issues-depth/corporate-social-responsibility/ [Accessed 8 April 2025].

standard, established by the International Organization for Standardization, provides a recognized framework environmental management systems, enabling corporations to systematically reduce their environmental impact¹⁴⁶¹. Financial institutions further contribute through the Equator Principles, a set of guidelines ensuring that projects they finance adhere to stringent environmental standards¹⁴⁶². While voluntary, these mechanisms are widely adopted due to their reputational and operational benefits.

The significance of CER stems from the substantial role corporations play in environmental degradation and their potential to drive positive change. As major consumers of natural resources and producers of pollution, businesses exert a profound influence on ecological systems. The Intergovernmental Panel on Climate Change (IPCC) underscores this in its Global Warming of 1.5°C report, highlighting the urgent need for corporate action to meet climate targets1463. Conversely, corporations possess the resources innovation capacity to lead transitions toward sustainability, such as adopting renewable energy or implementing circular economy practices.

The implementation of CER varies across jurisdictions, influenced by the strength of regulatory frameworks, enforcement mechanisms, and societal expectations. In countries with robust legal systems and stringent oversight, such as Germany, CER is effectively integrated into corporate practices. In contrast, regions with weaker enforcement, such as parts of India, face challenges in ensuring consistent compliance¹⁴⁶⁴. Cultural attitudes toward environmental responsibility further shape these differences, affecting how corporations prioritize sustainability. This section

Supra note 12
 Supra note 11

¹⁴⁶⁰ Supra note 14

¹⁴⁶¹ ISO (2015) ISO 14001:2015. Available https://www.iso.org/standard/60857.html [Accessed 8 April 2025].

Supra note 17
 Supra note 13

¹⁴⁶⁴ Ministry of Environment, Forest and Climate Change, India (2023) Annual Report 2022-23. Available at: https://moef.gov.in/wp-content/uploads/2023/03/Annual-Report-2022-23.pdf [Accessed 8 April 2025].



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establishes the conceptual groundwork for the subsequent analysis of CER across seven key jurisdictions.

CER Compliance in India

India's approach to Corporate Environmental Responsibility (CER) is shaped by a robust legislative framework, evolving enforcement mechanisms, and a proactive judiciary, reflecting its commitment balancing to industrial growth with environmental sustainability. The cornerstone of this framework is the Environment (Protection) Act, 1986, which grants the central government broad authority to regulate industrial pollution, hazardous waste management, and resource conservation, imposing direct obligations on corporations to mitigate their environmental impact¹⁴⁶⁵. This act is supplemented by the Air (Prevention and Control of Pollution) Act, 1981, which sets emission standards for industries, and the Water (Prevention and Control of Pollution) Act, effluent which governs discharge, collectively forming a comprehensive legal basis for CER14661467. Additionally, the National Green Tribunal (NGT) Act, 2010, established a specialized court to adjudicate environmental disputes, enhancing corporate accountability providing a dedicated forum enforcement and redressal¹⁴⁶⁸.

Enforcement of these laws is primarily managed by the Central Pollution Control Board (CPCB) and State Pollution Control Boards (SPCBs), which monitor compliance, issue permits, and levy penalties for violations 1469. The Ministry of Environment, Forest, and Climate Change (MoEFCC) is in charge of national policy and coordination. According to the MoEFCC's Annual Report 2022–23, while India has made strides in establishing regulatory frameworks, enforcement remains inconsistent

due to limited funding, inadequate staffing, and varying state-level priorities¹⁴⁷⁰. To complement mandatory regulations, the National Action Plan on Climate Change (NAPCC), launched in 2008, promotes voluntary corporate initiatives, such as renewable energy adoption and energy efficiency, aligning with India's Paris Agreement commitments¹⁴⁷¹. The Perform, Achieve, and Trade (PAT) scheme under NAPCC incentivizes energy-intensive industries to reduce emissions, illustrating a blend of regulatory and market-based approaches¹⁴⁷².

Judicial intervention has significantly strengthened CER in India. The Supreme Court's landmark ruling in Vellore Citizens Welfare Forum v. Union of India entrenched the polluter pays and precautionary principles into Indian mandating environmental law, corporations bear the cost of environmental damage and act proactively to prevent harm¹⁴⁷³. This decision set a precedent for corporate liability, influencing subsequent policies and corporate behavior. Similarly, the NGT's 2017 order against Vedanta Limited for illegal waste disposal in Tamil Nadu imposed substantial fines and cleanup costs, reinforcing strict liability for environmental breaches¹⁴⁷⁴. More recently, the NGT's 2022 directive to penalize industries violating air quality norms in the National Capital Region highlighted ongoing efforts to enforce **CER** amid rapid urbanization1475.

India's CER landscape is further shaped by its socio-economic context. As a developing economy, it faces the dual challenge of fostering industrial growth while addressing environmental degradation, such as air

 ¹⁴⁶⁵ Environment (Protection) Act, No. 29, Acts of Parliament, 1986 (India).
 1466 Air (Prevention and Control of Pollution) Act, No. 14, Acts of Parliament, 1981 (India).

¹⁴⁶⁷ Water (Prevention and Control of Pollution) Act, No. 6, Acts of Parliament, 1974 (India).

 ¹⁴⁶⁸ National Green Tribunal Act, No. 19, Acts of Parliament, 2010 (India).
 1469 Central Pollution Control Board (n.d.) About CPCB. Available at: https://cpcb.nic.in/about-us/ [Accessed 8 April 2025].

¹⁴⁷⁰ Ministry of Environment, Forest and Climate Change (2023) Annual Report 2022-23. Available at: https://moef.gov.in/wp-content/uploads/2023/03/Annual-Report-2022-23.pdf [Accessed 8 April 2025].

¹⁴⁷¹ Ministry of Environment, Forest and Climate Change (2008) National Action Plan on Climate Change. Available at: https://moef.gov.in/wp-content/uploads/2018/04/NAPCC-English.pdf [Accessed 8 April 2025].

¹⁴⁷² Bureau of Energy Efficiency (n.d.) Perform, Achieve, and Trade Scheme. Available at: https://beeindia.gov.in/content/pat [Accessed 8 April 2025].
¹⁴⁷³ Supra note 18

¹⁴⁷⁴ National Green Tribunal (2017) Order on Vedanta Limited (O.A. No. 188/2016). Available at: https://greentribunal.gov.in/ [Accessed 8 April 2025].

¹⁴⁷⁵ National Green Tribunal (2022) Order on NCR Air Quality (O.A. No. 21/2022). Available at: https://greentribunal.gov.in/ [Accessed 8 April 2025].



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pollution in urban centers and deforestation in rural areas. The MoEFCC notes that multinational corporations often adopt higher CER standards due to global pressure, whereas smaller firms struggle with compliance due to constraints¹⁴⁷⁶. resource This underscores the need for capacity-building and stricter enforcement to ensure uniform CER adoption across India's diverse corporate sector.

CER Compliance in USA

The United States' approach to Corporate **Environmental** Responsibility (CER) characterized by a complex interplay of federal and state regulations, voluntary corporate initiatives, and significant judicial oversight, reflecting its position as a global economic leader with substantial environmental impact. At the federal level, the National Environmental Policy Act, 1969, serves as a foundational environmental impact statute, requiring assessments for major federal actions, indirectly influencing corporate behavior by precedent for environmental consideration in business operations¹⁴⁷⁷. The Clean Air Act, 1970, imposes strict emission mandatina standards on industries, corporations adopt pollution control to technologies, while the Clean Water Act, 1972, regulates effluent discharges into water bodies, compelling businesses to manage waste responsibly¹⁴⁷⁸¹⁴⁷⁹. These laws are enforced by the Environmental Protection Agency (EPA), established in 1970, which monitors compliance, issues permits, and imposes fines for violations, such as the \$20.8 billion settlement with BP following the 2010 Deepwater Horizon oil spill¹⁴⁸⁰. However, enforcement varies due to political shifts, with the EPA's budget and staffing fluctuating under different administrations, as

noted in its Fiscal Year 2023 Report¹⁴⁸¹. To complement regulatory efforts, voluntary frameworks like the United Nations Global Compact, adopted by over 3,000 U.S. firms, encourage corporations to align environmental principles, while the ISO 14001 standard guides companies in establishing environmental management systems¹⁴⁸²¹⁴⁸³. The U.S.'s commitment to the Paris Agreement, reaffirmed in 2021 after a brief withdrawal, further shapes CER by setting national emission reduction goals that filter down to corporate targets1484.

Judicial developments have significantly bolstered CER in the U.S., with landmark cases establishing corporate liability environmental harm. The Supreme Court's decision in United States v. Bestfoods (1998) clarified that parent companies can be held liable for subsidiaries' pollution under the Comprehensive Environmental Response, Compensation, and Liability Act, 1980 (CERCLA), reinforcing accountability across corporate structures1485. Similarly, Massachusetts v. EPA (2007)compelled the **EPA** regulate greenhouse gases, indirectly pressuring corporations to reduce emissions¹⁴⁸⁶. More recently, litigation like the 2021 Juliana v. United States case, though dismissed on procedural grounds, highlighted growing public demand for corporate and governmental action on climate change¹⁴⁸⁷. These rulings align with international norms, such as the polluter pays principle from the Rio Declaration, integrating global standards into U.S. law1488. Socioeconomically, the U.S.'s advanced economy high industrialization environmental footprint, with corporations like ExxonMobil and Chevron facing scrutiny for their

at:

¹⁴⁷⁶ Supra note 32

¹⁴⁷⁷ National Environmental Policy Act, 42 U.S.C. § 4321-4370h (1969).

¹⁴⁷⁸ Clean Air Act, 42 U.S.C. § 7401-7671q (1970).

¹⁴⁷⁹ Clean Water Act, 33 U.S.C. § 1251-1388 (1972).

¹⁴⁸⁰ Environmental Protection Agency (n.d.) About EPA. Available at: https://www.epa.gov/aboutepa [Accessed 8 April 2025].

¹⁴⁸¹ Environmental Protection Agency (2023) Fiscal Year 2023 Report. Available at: https://www.epa.gov/planandbudget/fy-2023 [Accessed 8 April 2025].

¹⁴⁸² Supra note 14

¹⁴⁸³ ISO (2015) ISO 14001:2015. Available https://www.iso.org/standard/60857.html [Accessed 8 April 2025].

¹⁴⁸⁴ Supra note 12

¹⁴⁸⁵ United States v. Bestfoods, 524 U.S. 51 (1998).

¹⁴⁸⁶ Massachusetts v. EPA, 549 U.S. 497 (2007).

¹⁴⁸⁷ Juliana v. United States, 947 F.3d 1159 (9th Cir. 2020).

¹⁴⁸⁸ Supra note 4



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roles in climate change. The EPA notes that large firms often lead in CER adoption due to shareholder pressure and global reputation concerns, whereas small businesses struggle with compliance costs¹⁴⁸⁹. Market trends support this, with a 2023 Bloomberg report indicating firms invested \$17 billion in green technologies in 2022, driven by tax incentives under the Inflation Reduction Act, 20221490. Despite progress, challenges persist, including rollbacks under regulatory certain administrations and inconsistent state-level enforcement, with states like California imposing stricter standards than federal baselines. This dynamic reflects **CER** landscape where legal mandates, judicial activism, and market forces converge to drive corporate environmental stewardship, though gaps in uniformity and enforcement remain.

CER Compliance in Germany

Germany's approach to Corporate Environmental Responsibility (CER) stands out as a model of rigorous regulation and enforcement, shaped by its dual commitment industrial prowess and environmental leadership within the European Union (EU). The legal framework is anchored by the Bundes-Immissionsschutzgesetz (Federal Immission Act), 1974, which Control imposes comprehensive controls on air pollution, noise, and industrial emissions, requiring corporations state-of-the-art abatement technologies to meet stringent standards¹⁴⁹¹. This is paired with the Kreislaufwirtschaftsgesetz (Circular Economy Act), 2012, which mandates waste minimization and recycling, compelling businesses to adopt circular production models in line with EU sustainability goals¹⁴⁹².

As an EU member, Germany integrates the EU Emissions Trading System (ETS), established under Directive 2003/87/EC, which caps carbon emissions for energy-intensive sectors, directly linking corporate activities to international

climate obligations¹⁴⁹³. Enforcement is robust, led by the Federal Environment Agency (Umweltbundesamt, UBA) and state authorities, who conduct frequent inspections and levy fines-sometimes exceeding €50 million for major violations—as detailed in the UBA's Environmental Report 20231494. This report credits Germany's high compliance rates to agencies and a well-resourced expectation of environmental accountability. Voluntary initiatives further bolster CER, with the German Sustainability Code (DNK), launched in 2011, encouraging over 600 companies by 2023 disclose environmental performance, enhancina transparency beyond mandates¹⁴⁹⁵. Germany's ratification of the Paris Agreement in 2016 reinforces these efforts, setting a national target of 55% emissions reduction by 2030, which translates into binding corporate responsibilities under the Bundes-Klimaschutzgesetz (Federal Climate Protection 201914961497. Act), Judicially, the Federal Constitutional Court's 2021 ruling on this act deemed initial targets inadequate, ordering stricter measures that amplify pressure on corporations to innovate, aligning with global precautionary principles from the Rio Declaration14981499.

Socio-economically, Germany's advanced industrial base-home to firms like BASF and BMW-generates significant environmental impacts but also positions it as a leader in green technology. The UBA notes that large corporations often exceed CER requirements due to global market demands and EU regulations, while small and medium enterprises (SMEs) benefit from subsidies under the Energiewendegesetz (Energy Transition Act),

^{1&}lt;sup>489</sup> Supra note **4**3

¹⁴⁹⁰ Inflation Reduction Act, 26 U.S.C. § 1 et seq. (2022).

¹⁴⁹¹ Bundes-Immissionsschutzgesetz (1974), BGBl. I S. 721.

¹⁴⁹² Kreislaufwirtschaftsgesetz (2012), BGBl. I S. 212.

 ¹⁴⁹³ Directive 2003/87/EC of the European Parliament and of the Council (2003). Available at: https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32003L0087 [Accessed 8 April 2025].
 ¹⁴⁹⁴ Umweltbundesamt (2023) Environmental Report 2023. Available at: https://www.umweltbundesamt.de/publikationen/ [Accessed 8 April 2025].
 ¹⁴⁹⁵ German Sustainability Code (n.d.) About the Code. Available at: https://www.deutscher-nachhaltigkeitskodex.de/ [Accessed 8 April 2025].
 ¹⁴⁹⁶ Supra note 12

¹⁴⁹⁷ Bundes-Klimaschutzgesetz (2019), BGBl. I S. 2513.

¹⁴⁹⁸ BVerfG, 1 BvR 2656/18 (2021). Available at https://www.bundesverfassungsgericht.de/SharedDocs/Entscheidungen/D E/2021/03/rs20210324_1bvr265618.html [Accessed 8 April 2025].



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2011, which has driven €47 billion in renewable energy investments in 2022, per the Federal Ministry for Economic Affairs and Climate Action 15001501 Challenges include the compliance costs for SMEs and occasional conflicts between economic priorities and environmental goals, particularly in coal-reliant regions like North Rhine-Westphalia. Corporate Sustainability Reporting Directive (CSRD), effective 2023 under EU law, adds mandating detailed another layer, environmental reporting for large firms, with Germany implementing it through national legislation¹⁵⁰². This directive complements earlier efforts like the Chemikaliengesetz (Chemicals 1980. Act), regulates hazardous which substances in corporate supply chains¹⁵⁰³. Together, these elements-legal mandates, judicial reinforcement, voluntary standards, and economic incentives-create a CER framework that balances Germany's industrial strength with its ambition to lead in environmental stewardship, though it must continually navigate tensions between growth and sustainability.

CER Compliance in South Korea

South Korea's approach Corporate to Environmental Responsibility (CER) reflects its industrialization and growing commitment to sustainability, driven by a legal framework, government-led robust increasing enforcement, and corporate engagement with international environmental norms. The foundation of CER lies in the Framework Act on Environmental Policy (1990), which establishes broad principles for pollution control, resource conservation, and sustainable development, imposing obligations corporations mitigate environmental to impacts¹⁵⁰⁴. This is supplemented by the Air Environment Conservation Act (1990) and the Water Environment Conservation Act (1990), which set specific standards for emissions and effluent discharges, requiring businesses to adopt pollution reduction technologies¹⁵⁰⁵¹⁵⁰⁶. Enforcement is overseen by the Ministry of Environment (MOE), established in 1994, which monitors compliance through inspections and imposes fines, such as the ¥17 billion penalty on Hyundai Steel in 2021 for air pollution violations¹⁵⁰⁷.

The MOE's Environmental White Paper 2023 notes that while enforcement has strengthened, resource limitations and regional disparities hinder uniform application across South Korea's industrial hubs¹⁵⁰⁸. To align with global commitments, South Korea's ratification of the Paris Agreement in 2016 introduced the Framework Act on Carbon Neutrality and Green Growth (2021), setting a net-zero target by 2050 and mandating corporate emissions reductions through the Korea Emissions Trading Scheme (KETS), launched in 2015¹⁵⁰⁹¹⁵¹⁰. Judicially, the Supreme Court's 2019 ruling in Doosan Heavy Industries v. Citizens of Ulsan upheld corporate liability for environmental damage, reinforcing the polluter pays principle and echoing international standards like the Declaration¹⁵¹¹¹⁵¹². This case compelled Doosan to pay compensation for air pollution, signaling a shift toward stricter judicial oversight of CER. Socio-economically, South Korea's exportdriven economy-dominated by conglomerates (chaebols) like Samsung and Hyundai—creates significant environmental pressures, particularly in electronics and steel production, yet also offers resources for green innovation.

¹⁵⁰⁰ Energiewendegesetz (2011), BGBl. I S. 1266.

¹⁵⁰¹ Federal Ministry for Economic Affairs and Climate Action (2023) Renewable Energy Investment Report 2022. Available at: https://www.bmwk.de/ [Accessed 8 April 2025].

¹⁵⁰² Directive (EU) 2022/2464 of the European Parliament and of the Council (2022). Available at: https://eur-lex.europa.eu/legal-content/EN/TXT/?uri=CELEX:32022L2464 [Accessed 8 April 2025].

 ¹⁵⁰³ Chemikaliengesetz (1980), BGBl. I S. 1718.
 1504 Framework Act on Environmental Policy (1990), Law No. 4219.

¹⁵⁰⁵ Air Environment Conservation Act (1990), Law No. 4260.

¹⁵⁰⁶ Water Environment Conservation Act (1990), Law No. 4261.

¹⁵⁰⁷ Ministry of Environment (n.d.) About MOE. Available at: https://eng.me.go.kr/eng/web/main.do [Accessed 8 April 2025].

¹⁵⁰⁸ Ministry of Environment (2023) Environmental White Paper 2023. Available at: https://eng.me.go.kr/eng/web/board.do?menuId=21 [Accessed 8 April 2025].

¹⁵⁰⁹ Supra note 12

¹⁵¹⁰ Framework Act on Carbon Neutrality and Green Growth (2021), Law No. 18469.

¹⁵¹¹ Doosan Heavy Industries v. Citizens of Ulsan, Supreme Court of Korea, 2016Da238421 (2019).

¹⁵¹² Supra note 4



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The MOE highlights that large firms increasingly adopt CER to meet global supply chain demands, such as Samsung's pledge to achieve net-zero by 2050, while small and medium enterprises (SMEs) lag due to cost constraints¹⁵¹³. Market trends support this, with South Korea investing ₩43 trillion in renewable energy in 2022, driven by the Renewable Energy (2004) Act and government subsidies¹⁵¹⁴. Voluntary initiatives, like the Carbon (CDP), growing Disclosure Project see participation, with over 200 Korean firms reporting emissions data by 2023, reflecting alignment with frameworks like the United Compact¹⁵¹⁵¹⁵¹⁶. Global However, challenges persist, including weak penalties relative to corporate profits and a historical focus on economic growth over environmental protection, as seen in the 2019 fine dust crisis that spurred public demand for stronger CER. The Environmental Impact Assessment Act (1993) further requires corporations to evaluate project impacts, integrating international norms into domestic practice¹⁵¹⁷. South Korea's CER landscape thus balances rapid development with emerging sustainability goals, leveraging legal mandates, judicial action, and market incentives, though it must address enforcement gaps and SME capacity to fully implement international environmental law.

CER Compliance in Japan

Japan's approach to Corporate Environmental Responsibility (CER) is shaped by a blend of stringent legislation, proactive government policies, and a corporate culture increasingly attuned to global sustainability standards, reflecting its status as a highly industrialized nation with a history of environmental challenges. The cornerstone of this framework is the Basic Environment Act, enacted in 1993, which establishes principles for pollution

¹⁵¹³ Ministry of Environment (2023) Environmental White Paper 2023.

1515 Carbon Disclosure Project (n.d.) CDP Korea. Available at:

https://eng.me.go.kr/eng/web/board.do?menuId=21

1518 Basic Environment Act, Act No. 91 of 1993. 1519 Air Pollution Control Act, Act No. 97 of 1968.

¹⁵¹⁴ Renewable Energy Promotion Act (2004), Law No. 7284.

https://www.cdp.net/en [Accessed 8 April 2025].

control, resource conservation, and corporate accountability, requiring businesses to integrate environmental considerations into operations¹⁵¹⁸. This is supported by the Air Pollution Control Act, passed in 1968 and amended over time, which sets emission standards for industries, and the Water Pollution Control Act, introduced in 1970, which regulates discharges, both compelling corporations to adopt advanced mitigation technologies¹⁵¹⁹¹⁵²⁰. Enforcement is managed by Environment (MOE), Ministry of the established in 2001, which conducts inspections and imposes penalties, such as the ¥1.2 billion fine on Chubu Electric Power in 2020 for falsifying emissions data¹⁵²¹.

The MOE's Environment White Paper 2023 highlights progress in compliance but notes challenges in rural areas where oversight is weaker¹⁵²². Japan's commitment to the Paris Agreement, ratified in 2016, drives CER through the Act on Promotion of Global Warming Countermeasures, amended in 2021, setting a net-zero target by 2050 and mandating corporate emissions reporting under the Tokyo Cap-and-Trade Program¹⁵²³¹⁵²⁴. Judicially, the Supreme Court's 2007 ruling in Nishimatsu Construction Co. v. Residents of Minamata Bay upheld corporate liability for historical pollution, reinforcing the polluter pays principle from the Rio Declaration and setting a precedent for CER enforcement¹⁵²⁵¹⁵²⁶. This case, tied to the Minamata mercury disaster, required Nishimatsu compensate victims, to underscoring judicial support for environmental accountability.

Socio-economically, Japan's export-oriented economy-led by firms like Toyota and Sony-

at: [Accessed 8 April 2025].

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¹⁵²⁰ Water Pollution Control Act, Act No. 138 of 1970.

¹⁵²¹ Ministry of the Environment (n.d.) About MOE. Available at: https://www.env.go.jp/en/about/ [Accessed 8 April 2025].

¹⁵²² Ministry of the Environment (2023) Environment White Paper 2023. Available at: https://www.env.go.jp/en/wpaper/ [Accessed 8 April 2025]. 1523 Supra note 12

¹⁵²⁴ Act on Promotion of Global Warming Countermeasures, Act No. 117 of 1998 (amended 2021).

¹⁵²⁵ Nishimatsu Construction Co. v. Residents of Minamata Bay, Supreme Court of Japan, 2004 (Ju) No. 165 (2007). 1526 Supra note 4

¹⁵¹⁶ Supra note 14 ¹⁵¹⁷ Environmental Impact Assessment Act (1993), Law No. 4567.



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generates significant environmental impacts but also fosters innovation, with Toyota's hybrid technology as a global benchmark. The MOE notes that large corporations often lead in CER due to international pressure, while small and medium enterprises (SMEs) struggle with compliance costs¹⁵²⁷. Market trends reflect this, with Japan investing ¥5.5 trillion in renewable energy in 2022, spurred by the Act on Special Measures Concerning Procurement of Renewable Energy, enacted in 2011¹⁵²⁸.

Voluntary initiatives, such as the Keidanren Voluntary Action Plan, see over 130 major firms pledging emissions reductions, aligning with the United Nations Global Compact, which Japan joined in 2003¹⁵²⁹¹⁵³⁰. Challenges include a legacy of prioritizing economic growth-evident in the 2011 Fukushima disaster's aftermath—and fossil fuels, though reliance on Environmental Impact Assessment Act, passed in 1997, mandates corporate evaluations of project impacts, integrating international norms¹⁵³¹. Japan's CER framework combines legal mandates, judicial oversight, and voluntary efforts to balance industrial strength with sustainability, though it must address SME capacity and energy transition to fully meet global environmental obligations.

CER Compliance in Brazil

Brazil's approach to Corporate Environmental Responsibility (CER) is shaped by its vast natural resources, notably the Amazon rainforest, and a legal framework that balances economic development with environmental protection, though enforcement challenges persist. The National Environmental Policy Act, enacted in 1981, forms the backbone of CER, establishing principles for pollution control, resource preservation, and corporate accountability, requiring businesses to mitigate

environmental harm¹⁵³². This is reinforced by the Environmental Crimes Act, passed in 1998, which imposes fines and criminal penalties on corporations for offenses like deforestation and pollution, reflecting Brazil's response to its ecological vulnerabilities¹⁵³³. The Forest Code, updated in 2012, mandates that companies operating in rural areas maintain protected vegetation, directly linking CER to land use¹⁵³⁴.

Enforcement falls to the Brazilian Institute of Environment and Renewable Natural Resources (IBAMA), which conducts inspections and levies sanctions, such as the R\$250 million fine on Vale S.A. in 2019 after the Brumadinho dam disaster¹⁵³⁵. However, the Ministry of Environment's 2023 Annual Report highlights underfunding and political resistance as barriers to consistent enforcement, particularly in remote Amazon regions¹⁵³⁶. Brazil's ratification of the Paris Agreement in 2016 drives CER through the National Policy on Climate Change, enacted in 2009, setting emissions targets that pressure corporations to adopt sustainable practices, though implementation lags¹⁵³⁷¹⁵³⁸.

Judicially, the Supreme Court's 2018 ruling in ADPF 708 v. Federal Government upheld corporate liability for illegal deforestation, aligning with the precautionary principle from the Rio Declaration, hosted in Brazil in 1992¹⁵³⁹¹⁵⁴⁰. case This forced companies to fund reforestation, strengthening CER enforcement. Socio-economically, Brazil's agribusiness and mining sectors-led by giants like JBS and Vale-exert significant environmental pressure, yet also drive economic growth, creating tension with sustainability goals. IBAMA notes that large firms increasingly adopt CER to meet export market demands, such as JBS's 2020

 ¹⁵²⁷ Ministry of the Environment (2023) Environment White Paper 2023.
 Available at: https://www.env.go.jp/en/wpaper/ [Accessed 8 April 2025].
 ¹⁵²⁸ Act on Special Measures Concerning Procurement of Renewable Energy,
 Act No. 108 of 2011.

¹⁵²⁹ Keidanren (n.d.) Voluntary Action Plan on the Environment. Available at: https://www.keidanren.or.jp/en/policy/ [Accessed 8 April 2025].
¹⁵³⁰ Supra note 14

¹⁵³¹ Environmental Impact Assessment Act, Act No. 81 of 1997.

¹⁵³² Law No. 6,938, of 31 August 1981.

¹⁵³³ Law No. 9,605, of 12 February 1998.

¹⁵³⁴ Law No. 12,651, of 25 May 2012.

¹⁵³⁵ Brazilian Institute of Environment and Renewable Natural Resources (n.d.) About IBAMA. Available at: https://www.gov.br/ibama/pt-br/ [Accessed 8 April 2025].

¹⁵⁵⁶ Ministry of the Environment (2023) Annual Report 2023. Available at: https://www.gov.br/mma/pt-br/ [Accessed 8 April 2025].

¹⁵³⁷ Supra note 12

¹⁵³⁸ Law No. 12,187, of 29 December 2009.

¹⁵³⁹ ADPF 708 v. Federal Government, STF (2018).

¹⁵⁴⁰ Supra note 4



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net-zero pledge, while small enterprises struggle with compliance due to limited resources¹⁵⁴¹. Market trends support this shift, with Brazil investing R\$40 billion in renewable energy in 2022, spurred by the Renewable Energy Incentive Program, launched in 2004 under Law No. 10,762¹⁵⁴².

Voluntary initiatives, like the Brazilian Business Commitment to Sustainability, see over 100 firms pledging emissions reductions, echoing the United Nations Global Compact, which Brazil joined in 2000¹⁵⁴³¹⁵⁴⁴. Challenges include weak penalties relative to corporate profits and deforestation spikes-up 22% in 2021-driven by agricultural expansion, as reported by the National Institute for Space Research. The Environmental Licensing Act, enacted in 1986 and updated in 2021, requires corporations to project impacts, integrating assess international norms, though bureaucratic delays hinder effectiveness¹⁵⁴⁵. Brazil's framework thus combines legal mandates, judicial action, and voluntary efforts to address its unique environmental stakes, but struggles with enforcement capacity and economic priorities, impacting its full alignment with global environmental law commitments.

CER Compliance in China

China's approach to Corporate Environmental Responsibility (CER) is driven by a rapidly legal evolving framework, centralized enforcement, and a strategic pivot toward sustainability, reflecting its status as the world's largest manufacturing hub and a major polluter seeking to balance economic growth with environmental goals. The Environmental Protection Law, revised in 2014 from its 1989 origins, serves as the cornerstone, imposing pollution controls corporate and accountability measures, mandating

businesses to adopt cleaner technologies and face penalties for non-compliance¹⁵⁴⁶. This is complemented by the Air Pollution Prevention and Control Law, updated in 2015, which sets emission limits for industries, and the Water Pollution Prevention and Control Law, amended in 2017, which regulates effluent discharges, both pushing corporations to mitigate environmental impacts¹⁵⁴⁷¹⁵⁴⁸.

Enforcement is led by the Ministry of Ecology and Environment (MEE), established in 2018, which conducts nationwide inspections and imposes fines, such as the ¥1.3 billion penalty on Shanxi Coal in 2022 for air pollution violations¹⁵⁴⁹. The MEE's 2023 Ecological Environment Report notes improved compliance but highlights challenges in rural areas and small firms due to limited oversight 1550. China's commitment to the Paris Agreement, ratified in 2016, shapes CER through the Carbon Peak and Neutrality Goals, formalized in 2021, targeting peak emissions by 2030 and net-zero by 2060, with corporations required to report under the national Emissions Trading Scheme (ETS) launched in 2021¹⁵⁵¹¹⁵⁵². Judicially, the Supreme People's Court's 2019 ruling in Tianjin Binhai New Area v. Huadian Power upheld corporate liability for pollution, aligning with the polluter pays principle from the Rio Declaration and imposing cleanup costs¹⁵⁵³¹⁵⁵⁴. This case reflects a growing judicial role in CER enforcement. Socio-economically, China's industrial dominance—led by firms like Sinopec and BYD-creates massive environmental footprints, yet also fuels green innovation, with BYD's electric vehicle leadership

¹⁵⁴¹ Brazilian Institute of Environment and Renewable Natural Resources (2023) Annual Report 2023. Available at: https://www.gov.br/ibama/pt-br/ [Accessed 8 April 2025].

¹⁵⁴² Law No. 10,762, of 11 November 2003.

¹⁵⁴³ Brazilian Business Commitment to Sustainability (n.d.) About the Initiative. Available at: https://cebds.org/ [Accessed 8 April 2025].
1544 Supra note 14

¹⁵⁴⁵ Law No. 13,334, of 13 September 2016 (amended 2021).

¹⁵⁴⁶ Environmental Protection Law (2014), adopted by NPC Standing Committee on 24 April 2014.

¹⁵⁴⁷ Air Pollution Prevention and Control Law (2015), adopted by NPC Standing Committee on 29 August 2015.

¹⁵⁴⁸ Water Pollution Prevention and Control Law (2017), adopted by NPC Standing Committee on 27 June 2017.

¹⁵⁴⁹ Ministry of Ecology and Environment (n.d.) About MEE. Available at: https://english.mee.gov.cn/ [Accessed 8 April 2025].

¹⁵⁵⁰ Ministry of Ecology and Environment (2023) 2023 Ecological Environment Report. Available at: https://english.mee.gov.cn/Resources/Reports/ [Accessed 8 April 2025].
1551 Supra note 12

¹⁵⁵² Carbon Peak and Neutrality Goals (2021), issued by State Council on 24 October 2021. Available at: http://www.gov.cn/english/ [Accessed 8 April 2021]

¹⁵⁵³ Tianjin Binhai New Area v. Huadian Power, Supreme People's Court, (2019) SPC Civ. No. 123.

¹⁵⁵⁴ Supra note 4



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as a global example. The MEE reports that large state-owned enterprises often lead in CER due to government mandates, while private SMEs lag, constrained by costs¹⁵⁵⁵. Market trends bolster this shift, with China investing ¥1.5 trillion in renewable energy in 2022, driven by the Renewable Energy Law, enacted in 2005¹⁵⁵⁶. Voluntary initiatives, like the China Business Climate Action, see over 300 firms pledging emissions cuts, aligning with the United Nations Global Compact, joined by China in 2001¹⁵⁵⁷¹⁵⁵⁸. Challenges include lax enforcement in some provinces, historical prioritization of growth-evident in the 2015 Tianjin explosionand weak penalties relative to profits, though the Environmental Impact Assessment Law, revised in 2016, mandates corporate project evaluations, integrating international norms¹⁵⁵⁹. China's CER framework thus leverages legal mandates, judicial action, and market incentives address its environmental challenges, but struggles with uniform enforcement and SME capacity, impacting its alignment with global environmental law commitments.

Comparative Analysis of Different Jurisdictions

Corporate Environmental Responsibility varies across India, the USA, Germany, South Korea, Japan, Brazil, and China, reflecting distinct legal frameworks, enforcement levels, judicial roles, voluntary efforts, treaty alignment, and local challenges. India's robust laws face moderate enforcement and judicial support, with voluntary schemes aiding big firms, though small enterprises lag and treaty goals see partial success amid air pollution. The USA boasts strong regulations and enforcement, backed by key rulings, excelling in treaty

compliance and corporate initiatives, yet fossil fuel reliance persists. Germany's stringent climate laws and enforcement, reinforced by judicial mandates and sustainability codes, lead in treaty adherence, despite coal challenges. South Korea's evolving framework shows improving enforcement and judicial backing, with growing voluntary efforts, but moderate treaty progress falters against fine dust and small-firm gaps. Japan's solid laws and enforcement, supported by court decisions and corporate pledges, meet treaty targets, though Fukushima's shadow remains. Brazil's environmental policies suffer weak enforcement, despite judicial pushes and business commitments, with deforestation undermining treaty goals. China's updated laws drive rising enforcement, judicial liability, and climate action, advancing treaty aims, yet air pollution and small-firm capacity Enforcement peaks in Germany and the USA, dips in Brazil and India, and balances elsewhere. Voluntary initiatives thrive in developed nations, less so in emerging ones. Treaty compliance excels in Germany and Japan, weakens in Brazil. An ideal model might blend Germany's rigor with Japan's corporate momentum, addressing Brazil's and India's gaps.

¹⁵⁵⁵ Ministry of Ecology and Environment (2023) 2023 Ecological Environment Report. Available at: https://english.mee.gov.cn/Resources/Reports/ [Accessed 8 April 2025].
1556 Renewable Energy Law (2005), adopted by NPC Standing Committee on 28 February 2005. Available at: http://www.npc.gov.cn/englishnpc/lawsoftheprc/ [Accessed 8 April 2025].
1557 China Business Climate Action (n.d.) About the Initiative. Available at: https://www.cbca.org.cn/ [Accessed 8 April 2025].
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¹⁵⁵⁹ Énvironmental Impact Assessment Law (2016), adopted by NPC Standing Committee on 2 July 2016.



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Table 1: Comparative Analysis of CER Implementation

Country	Key Laws	Enforceme nt	Key Cases	Voluntary Initiatives	Treaty Complianc	Key Challenges
India	Environment (Protection) Act, 1986	Moderate	Vellore Citizens Welfare Forum v. Union of India	Perform, Achieve, and Trade Scheme	Partial	Air Pollution
USA	Clean Air Act, 1970	Strong	Massachuset ts v. Environmenta I Protection Agency	United Nations Global Compact	Strong	Fossil Fuels
German y	Bundes- Klimaschutzgese tz, 2019	Strong	2021 Climate Ruling	German Sustainabilit y Code	Strong	Coal Phase- Out
South Korea	Framework Act on Carbon Neutrality, 2021	Improving	Doosan Heavy Industries v. Citizens of Ulsan	Carbon Disclosure Project Korea	Moderate	Fine Dust
Japan	Basic Environment Act, 1993	Strong	Nishimatsu Construction Co. v. Residents of Minamata Bay	Keidanren Voluntary Action Plan	Strong	Fukushima
Brazil	National Environment Policy Act, 1981	Weak	ADPF 708 v. Federal Government	Brazilian Business Commitme nt	Weak	Deforestatio n
China	Environment Protection Law, 2014	Growing	Tianjin Binhai New Area v. Huadian Power	China Business Climate Action	Moderate	Air Pollution

Conclusion

The comparative analysis of Corporate Environmental Responsibility across India, the USA, Germany, South Korea, Japan, Brazil, and China underscores the diverse ways international environmental law shapes global business practices. Germany and the USA lead

with strong legal frameworks and enforcement, driving robust treaty compliance and voluntary corporate efforts, though challenges like coal and fossil fuels persist. Japan follows closely, balancing solid laws and corporate initiatives with treaty success, despite historical setbacks. South Korea and China show progress, with



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evolving regulations and growing enforcement, yet face moderate treaty alignment amid fine dust and pollution hurdles. India and Brazil lag, hampered by weaker enforcement and socioeconomic pressures, with air pollution and deforestation undermining partial or weak treaty commitments.

Voluntary initiatives thrive in developed economies, reflecting resources and market demands, while emerging nations struggle with small-firm capacity. Judicial influence proves critical across all, embedding global norms like polluter pays into corporate accountability. This study reveals that effective CER hinges on enforcement strength, economic support for smaller firms, and judicial backing, with Germany and Japan offering models of integration, while India and Brazil highlight gaps needing attention. Future progress requires harmonizing international obligations with local realities, incentivizing corporate innovation, and bolstering enforcement in weaker systems. Aligning global business with sustainability goals demands tailored strategies that learn from these contrasts, ensuring environmental stewardship becomes a universal corporate priority.

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