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**ENVIRONMENTAL STATECRAFT: ANALYZING DIPLOMATIC  
FRAMEWORKS IN THE ERA OF GLOBAL CLIMATE CHALLENGES**- Vivek V. Yadav<sup>1</sup>**Abstract**

In the 21st century, climate change poses unique challenges, requiring collaboration that goes beyond national borders. As nations contend with the consequences of climate change, environmental statecraft—employing diplomatic and political measures to tackle environmental challenges—has turned essential, particularly in areas such as South Asia, where India, China, and Pakistan encounter both common environmental risks and intricate geopolitical tensions. This study explores the role of climate diplomacy among these three nations, emphasizing the balance between their economic aspirations and environmental responsibilities.

India, China, and Pakistan confront significant environmental issues, including water scarcity, extreme weather occurrences, and air quality concerns, requiring collaborative efforts for solutions. Nonetheless, political conflicts, conflicting economic priorities, and varying degrees of development hinder collaboration efforts. This study explores how the climate diplomacy strategies of different countries mirror their distinct national priorities, while also pursuing shared objectives via multilateral frameworks, bilateral talks, and regional efforts. Significant agreements, including the Paris Agreement, the Indus Waters Treaty, and joint initiatives within the South Asian Association for Regional Cooperation (SAARC), offer understanding of current and possible frameworks for environmental collaboration.

Case studies demonstrate the achievements and difficulties of regional climate diplomacy, including partnerships in renewable energy and cross-border water management, which, even

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with political hurdles, have indicated potential in enhancing environmental resilience. This paper further discusses the function of international organizations in facilitating and backing climate initiatives in South Asia, underlining the importance of fair financing, technology exchange, and confidence-building strategies.

In conclusion, this research emphasizes the capacity of environmental statecraft to tackle pressing climate problems in South Asia and simultaneously act as a template for other areas where geopolitical intricacies combine with ecological difficulties. This paper highlights the transformative potential of climate diplomacy in fostering sustainable and peaceful regional development by exploring the overlap of environmental and geopolitical interests.

## **Introduction**

With the world growing more interconnected, climate change has surfaced as a critical issue, requiring united and collaborative efforts from every country. Increasing temperatures, erratic weather patterns, and a rise in natural disasters highlight the importance of addressing climate effects while coping with unavoidable changes. In this context, environmental statecraft—the tactical application of diplomacy to tackle environmental issues—has become crucial for managing the intricacies of international relations and encouraging sustainable development.

South Asia is especially susceptible to crises caused by climate change, such as severe weather events, lack of water, and air pollution. India, China, and Pakistan, being the three most prominent and powerful countries in the region, hold significant responsibility for addressing these challenges. Nonetheless, their methods for addressing climate change are frequently shaped by unique national priorities, resource limitations, and geopolitical factors, which may impede efforts for a cohesive regional response. India seeks to balance economic development with environmental conservation, frequently clashing with China's more aggressive global environmental approach and Pakistan's emphasis on adaptation because of its susceptibility to climate effects.

This study examines the climate diplomacy efforts of India, China, and Pakistan both within South Asia and in a broader context. Although international accords such as the Paris Agreement offer a general structure, countries have displayed differing degrees of commitment, shaped by economic goals and political factors. The examination will center on important case studies, including the Indus Water Treaty, collective actions regarding

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regional environmental emergencies, and efforts to manage air quality across boundaries. Through an examination of the intricacies of climate diplomacy in South Asia, this paper seeks to reveal insights into how environmental issues might either heighten conflicts or encourage exceptional collaboration in one of the globe's most geopolitically delicate areas.

## **Chapter 1. Theoretical Foundations of Environmental Statecraft**

The idea of environmental statecraft has surfaced as an essential aspect of international relations, particularly amid global environmental challenges like climate change, loss of biodiversity, and scarcity of water. These issues, which transcend national boundaries, necessitate countries to participate in strategic diplomacy, reconciling environmental needs with political, economic, and security priorities. In nations like India, China, and Pakistan, environmental governance goes beyond addressing ecological issues; it is intimately linked to broader concerns of national security, economic stability, and regional dynamics.

### **1.1 Definition and Importance of Environmental Statecraft**

- Environmental statecraft refers to the strategic use of diplomatic, political, and economic instruments to address transboundary environmental issues and promote sustainable development. In contrast to conventional diplomacy, environmental statecraft focuses on developing structures that foster collaboration on common environmental issues, emphasizing sustainable practices in the long run rather than short-term national interests. This method is vital for tackling worldwide challenges like climate change, where unilateral efforts frequently fall short because of the interlinked nature of environmental systems.
- In the 21st century, climate change has heightened the significance of environmental diplomacy, urging nations to participate in global environmental stewardship. As the effects of climate change become increasingly evident, challenges such as rising sea levels, severe weather, and resource shortages present major threats to national economies and security. Consequently, environmental statecraft now functions not only to promote environmental objectives but also to ensure economic and political stability. For example, India, China, and Pakistan—three nations situated near one another yet facing different environmental risks—have increasingly recognized the necessity of balancing development with climate resilience. The strategic application

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of environmental statecraft enables them to manage these conflicting priorities, looking for ways to collaborate even in times of political discord.

- Environmental governance also contributes to altering global power relations, as nations compete for dominance in climate actions. China's substantial investment in renewable energy technologies, for instance, not only tackles its internal pollution problems but also enhances its power in the global green economy. India's role in the International Solar Alliance represents a strategy to enhance soft power via collaboration on environmental issues. This shows that environmental statecraft can serve as an effective means for nations looking to improve their global standing and impact.

## **1.2 Key Theoretical Approaches: Realism, Liberalism, and Ecocentrism in Climate Diplomacy**

To grasp how nations such as India, China, and Pakistan tackle environmental statecraft, it is beneficial to analyze the theoretical frameworks that influence their motivations and tactics. Realism, liberalism, and ecocentrism are three main viewpoints that provide understanding of the diverse strategies countries adopt in climate diplomacy.

### **Realism: National Interest and Economic Sovereignty**

- Realism asserts that states primarily operate according to their self-interest, emphasizing sovereignty, security, and economic development over collaborative efforts. From this viewpoint, environmental diplomacy is approached carefully, as nations evaluate if participation corresponds with their national priorities. Realism indicates that countries may participate in climate agreements only if they see a direct advantage or low economic risk. Within this context, environmental accords might be viewed with skepticism, especially by developing countries that emphasize economic progress over environmental obligations, worrying that strict climate regulations could hinder their growth.
- For example, India's strategy in climate diplomacy has frequently mirrored realist considerations. India, with its vast population and fast-growing economy, is under significant pressure to deliver energy and enhance living conditions. This has occasionally led to a careful stance on climate agreements, with India highlighting the

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principle of Common but Differentiated Responsibilities (CBDR), urging developed countries to assume a larger portion of the climate responsibility. Nonetheless, as the effects of climate change intensify, India has acknowledged the importance of sustainable development, progressively enhancing its commitments while adhering to its developmental priorities.

### **Liberalism: Cooperation and Shared Benefits**

- Liberalism, unlike realism, highlights the possibilities for collaboration and mutual advantages between nations. This viewpoint indicates that global institutions and multilateral pacts can successfully tackle worldwide issues, as nations acknowledge the shared benefits of working together. Liberalism asserts that environmental challenges, because of their cross-border characteristics, are most effectively handled through collaborative systems that promote interdependence and minimize conflict.
- From a liberal perspective, China's recent initiatives in climate diplomacy demonstrate a commitment to collaborative values. Although China is the largest carbon emitter globally, it has been proactive in developing renewable energy and has established ambitious goals to lower its emissions. China's participation in the Paris Agreement and its commitments to green finance under the Belt and Road Initiative reflect a recognition that collaborating internationally on climate matters can improve its global standing and economic benefits. This progressive stance casts China as a possible leader in international climate diplomacy, aligning its environmental pledges with economic development and regional power.

### **Ecocentrism: Prioritizing Ecological Integrity**

- Ecocentrism embodies a comprehensive perspective on environmental governance, promoting strategies that emphasize ecological health instead of immediate national benefits. This viewpoint asserts that human existence is fundamentally connected to ecosystem health and that governments must implement policies that honor planetary limits. Ecocentrism frequently questions traditional economic growth frameworks, proposing that sustainable development requires a deep reevaluation of humanity's relationship with the environment.

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- In South Asia, ecocentric values often emerge in grassroots environmental movements and NGOs promoting sustainable practices, though they are less commonly found in formal government policies. Still, aspects of ecocentrism are slowly impacting national policies. For instance, Pakistan, significantly at risk from climate change effects, has demonstrated a growing interest in ecosystem-based adaptation methods, like reforestation via its Billion Tree Tsunami initiative. Although ecocentrism is not yet a leading framework in South Asian climate diplomacy, it provides an inspiring strategy that could steer nations toward more sustainable policies as they face increasing environmental challenges.
- Together, realism, liberalism, and ecocentrism clarify the distinct approaches of India, China, and Pakistan concerning climate diplomacy. China's initiatives in renewable energy and investment in sustainable technologies embody liberal and ecocentric values, enhancing its international standing in climate measures. India's practical focus on economic growth sometimes limits its climate commitments, but the country has also shown slow progress towards international climate goals. Pakistan, owing to its high vulnerability to climate change, employs a pragmatic approach centered on adaptation and enhancing resilience, often seeking international support to tackle its environmental challenges.

### **1.3 Frameworks for Environmental Diplomacy**

Environmental diplomacy can manifest in various ways, such as multilateral accords, bilateral discussions, and regional collaboration efforts. Every framework presents distinct opportunities and challenges for promoting climate objectives, and the selection of a framework typically relies on the particular environmental concern involved, in addition to the geopolitical situation.

#### **Multilateral Agreements**

Multilateral treaties entail pledges from various countries to work towards common environmental objectives, usually supported by global organizations. The Paris Agreement within the United Nations Framework Convention on Climate Change (UNFCCC) serves as a notable instance, with nations committing to restrict global warming to under 2 degrees Celsius. For countries such as India, China, and Pakistan, involvement in such agreements

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demonstrates an acknowledgment of the worldwide aspect of climate change and the necessity for collaborative efforts. Nevertheless, their participation is frequently shaped by factors such as fairness, economic consequences, and national interests. The principle of CBDR, included in the Paris Agreement, is especially significant for India and Pakistan because it emphasizes that developed countries should assume a larger portion of the responsibility for climate mitigation.

### **Bilateral Diplomacy**

Bilateral diplomacy enables countries to interact directly, negotiating agreements that tackle their particular environmental issues and priorities. For instance, India and China have occasionally worked together on climate-related matters despite their larger geopolitical conflicts. Bilateral talks provide adaptability, allowing nations to tackle transboundary environmental issues in manners that suit their distinct economic and strategic priorities. For example, India and Pakistan possess considerable water resources, and joint discussions on water-sharing pacts, like the Indus Waters Treaty, illustrate how environmental diplomacy can aid in resolving conflicts, even amid politically tense relationships.

### **Regional Cooperation**

- Regional collaboration is vital for tackling environmental challenges that affect several nations in a particular region. For countries such as India, China, and Pakistan, regional agreements centered on common resources—like river basins, mountain environments, or air quality regulations—are essential. Regional frameworks, supported by entities such as the South Asian Association for Regional Cooperation (SAARC) or the Shanghai Cooperation Organisation (SCO), can encourage collaborative efforts on environmental challenges that cannot be tackled by an individual nation by itself. An instance is transboundary air pollution, in which regional regulations on emissions standards and pollution management can result in significant environmental enhancements.
- In reality, these frameworks of environmental diplomacy—multilateral, bilateral, and regional—are not independent of one another. Nations frequently operate at various levels at the same time, harmonizing international obligations with local and regional needs. By capitalizing on the advantages of each framework, India, China, and

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Pakistan can pursue more impactful climate diplomacy, tackling environmental issues in ways that promote both regional stability and sustainable development.

## **Chapter 2. Global Climate Diplomacy Landscape**

The global reaction to climate change has progressed considerably in recent decades, as nations acknowledge the necessity for collaborative approaches to reduce environmental effects that cross national boundaries. The global climate diplomacy scene is influenced by significant treaties such as the Paris Agreement and the Kyoto Protocol, international bodies that promote cooperation, and a range of obstacles that affect the achievement of environmental objectives. For nations such as India, China, and Pakistan, involvement in these international frameworks underscores a dedication to tackling climate change; however, the strategies and challenges faced by each country are unique, shaped by national priorities, economic conditions, and geopolitical circumstances.

### **2.1 Major International Climate Agreements**

Global climate agreements have been essential in establishing a worldwide structure for tackling climate change. They established bold goals to decrease greenhouse gas emissions, encourage renewable energy, and strengthen resilience in at-risk communities. Nonetheless, nations' participation in these agreements differs, showcasing a range of economic and environmental contexts. India, China, and Pakistan, as participants in important climate agreements, navigate these frameworks based on their unique domestic circumstances and developmental needs.

#### **The Paris Agreement (2015)**

The Paris Agreement, created in 2015, signifies a crucial point in global climate discussions. In contrast to earlier agreements, the Paris Agreement created a more adaptable framework permitting nations to determine their own targets, referred to as Nationally Determined Contributions (NDCs), according to their abilities and obligations. Its primary objective is to restrict the increase in global temperatures to significantly below 2°C compared to pre-industrial levels, aiming specifically for 1.5°C. This accord implemented a bottom-up strategy, encouraging nations to revise and improve their NDCs every five years, promoting a continuous cycle of ambition and responsibility.

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- India: India's Nationally Determined Contribution (NDC) within the Paris Agreement highlights the significance of harmonizing climate objectives with development goals. India, with a significant and increasing population and high energy needs, has pledged to decrease its emissions intensity by 33-35% from 2005 levels by 2030, boosting its use of renewable energy, and enlarging its forest area to serve as a carbon sink. India demonstrates its dedication to renewable energy through programs like the International Solar Alliance, aimed at encouraging solar energy investment in developing nations. Even with these promises, India supports the idea of Common but Differentiated Responsibilities (CBDR), asserting that developed countries should take on a larger portion of the climate responsibility.
- China, being the top emitter of greenhouse gases globally, has a significant impact on the Paris Agreement's outcomes. Its nationally determined contributions show a bold strategy, with the goal of reaching the highest point of CO<sub>2</sub> emissions before 2030 and reaching carbon neutrality by 2060. China has made significant financial commitments to renewable energy, focusing mainly on solar and wind power, establishing itself as a prominent player in the worldwide green economy. Nevertheless, China's heavy dependence on coal for its economic development creates obstacles to completely shifting to renewable energy sources, and its environmental pledges are interconnected with ensuring economic resilience.
- Pakistan: Pakistan encounters distinctive obstacles as an emerging nation that is extremely susceptible to the effects of climate change, such as frequent floods, droughts, and glacial melt. Pakistan's NDC in the Paris Agreement emphasizes adapting strategies and strengthening resilience due to its limited ability to decrease emissions like bigger economies. Pakistan has pledged to decrease its emissions by 20% from anticipated levels by 2030, on the condition of obtaining financial assistance from the international community. Because of its financial limitations, Pakistan has called for higher levels of climate funding from wealthier countries to achieve its goals and enhance climate resilience.

The Paris Agreement's adaptable framework enables nations to adjust their pledges according to their economic and environmental circumstances, promoting a broader worldwide reaction to climate change. Nevertheless, inequalities in financial resources and the dependency on

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external funding for countries in development, such as Pakistan, present obstacles in the successful implementation of NDCs.

### **The Kyoto Protocol (1997)**

The Kyoto Protocol, which was agreed upon in 1997, was among the first global initiatives to decrease greenhouse gas emissions. It set legally required targets for developed countries to reduce emissions, recognizing their historical role in causing most emissions. Nonetheless, the Protocol encountered major obstacles as it did not impose strict emission reduction obligations on developing countries, sparking criticism for not adequately tackling the transnational issue of climate change.

The Protocol's omission of countries such as India, China, and Pakistan from required goals demonstrated the concept of CBDR, which recognizes that developed nations should lead in decreasing emissions. Although the purpose of this principle was to encourage fairness, it instead caused conflict between developed and developing nations and hindered the Protocol's ability to decrease worldwide emissions. As time passed, the Kyoto Protocol encountered additional obstacles when certain developed nations, such as the United States, chose not to participate in the agreement due to worries about economic competition and equity.

In spite of these constraints, the Kyoto Protocol established a significant example in global climate negotiations by creating a structure for reducing emissions and emphasizing the importance of varied responsibilities. The Protocol led to the more inclusive Paris Agreement, which seeks to involve developed and developing countries by encouraging voluntary, self-determined commitments.

### **2.2 Roles of Multilateral Organizations**

Multilateral organizations are crucial in fostering worldwide cooperation on climate issues by providing platforms for dialogue, scientific research, and financial support. These groups play a vital role in influencing the frameworks that impact climate diplomacy, offering assistance in technical and financial areas, and monitoring progress towards global environmental goals.

### **United Nations Framework Convention on Climate Change (UNFCCC)**

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The UNFCCC is the main forum for global climate talks, facilitating worldwide collaboration in combating climate change. Formed in 1992, the UNFCCC holds yearly Conferences of the Parties (COP), where nations gather to talk about and bargain climate strategies. The creation of milestone agreements in global climate diplomacy, such as the Kyoto Protocol and the Paris Agreement, has been facilitated by the UNFCCC.

The UNFCCC offers an organized platform for countries such as India, China, and Pakistan to promote their interests, especially concerning topics like climate finance, technology transfer, and adaptation support. It also acts as a platform for these nations to showcase their specific obstacles and demand fair solutions that support their development aims.

### **Intergovernmental Panel on Climate Change (IPCC)**

The IPCC is a global organization in charge of evaluating scientific studies on climate change. Utilizing thorough peer-reviewed research, the reports offer policymakers a complete grasp of climate science, impacts, and possible solutions. The IPCC's conclusions have played a key role in influencing global climate accords by providing a scientific foundation for policy choices.

The vulnerability of South Asia to climate impacts has been emphasized in the IPCC's reports, stressing the importance of countries like India, China, and Pakistan focusing on resilience and adaptation measures. For instance, the IPCC's Sixth Assessment Report highlighted the dangers of extreme weather events, water shortages, and food insecurity in the area, underscoring the importance of collaborative efforts on climate change.

### **United Nations Environment Programme (UNEP)**

UNEP has a crucial role in organizing worldwide environmental efforts, assisting nations in adopting sustainable development practices, and raising awareness about environmental issues. The work of UNEP involves advocating for green economy projects, aiding collaborations in renewable energy advancement, and backing climate adaptation endeavors.

Countries such as Pakistan, which lack resources, frequently depend on international assistance to carry out climate projects, benefiting from UNEP's efforts. UNEP is concentrating on restoring ecosystems and managing resources sustainably, which fits well

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with Pakistan's requirements for adapting to challenges in flood-prone, drought-prone, and soil-degraded areas.

### **2.3 Challenges in Implementing Global Environmental Goals**

Despite international climate agreements and multilateral organizations laying out a structure for tackling climate change, various obstacles impede the successful carrying out of worldwide environmental objectives.

#### **Economic Disparities**

Economic inequalities among nations pose a major obstacle in meeting climate targets. Wealthy countries typically have greater access to funds for investing in eco-friendly technology, while developing nations frequently face financial constraints. For nations such as Pakistan, achieving climate goals is especially difficult without significant assistance from the global community. The need for outside funding, sharing of technology, and support for capacity building puts more demands on international organizations to distribute resources fairly.

#### **Geopolitical Tensions**

Tensions between countries over land and resources could hinder effective cooperation on environmental issues. Historical and political tensions between India and Pakistan can make collaborative efforts challenging, including in areas such as water management in the Indus River basin. These conflicts highlight the significance of initiating trust-building techniques in the field of climate diplomacy in order to encourage cooperation between countries on resources that are collectively owned.

#### **Inconsistent Commitment Levels**

Differing levels of commitment from countries also pose difficulties. Economic pressures frequently cause nations to focus on short-term growth instead of long-term environmental objectives, leading to policy reversals or delays in carrying out climate commitments. This inconsistency hinders worldwide advancements in climate goals and poses obstacles for international organizations in enforcing countries' responsibility.

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In general, despite progress being made in global climate diplomacy, economic inequalities, geopolitical conflicts, and varying levels of commitment continue to present obstacles to achieving successful international climate efforts. Meeting these challenges involves finding a harmony between domestic needs and global collaboration, especially for nations such as India, China, and Pakistan, which must handle both internal concerns and international obligations in their climate diplomacy endeavors.

### **Chapter 3. Climate Diplomacy in Asia: Focus on India, China, and Pakistan**

South Asia is highly susceptible to climate change, mainly due to fast urban growth, industrialization, high population density, and environmental harm. The intricate interaction of climate diplomacy among India, China, and Pakistan highlights the obstacles and possibilities of environmental collaboration in a region with past conflicts and varying growth trajectories. This part presents a summary of regional climate issues, the historical background of climate diplomacy within these nations, and the significance of environmental statecraft as both a possible unifying factor and a source of disagreement.

#### **3.1 Historical Context of Climate Diplomacy between India, China, and Pakistan**

The climate diplomacy history in South Asia is intricate, with India, China, and Pakistan showing varied levels of cooperation. The political situation in the area, characterized by territorial conflicts, military rivalry, and economic competition, frequently complicates negotiations about the environment. Nevertheless, these countries have acknowledged the significance of environmental concerns, resulting in different levels of cooperation.

#### **India and China**

- India and China, being two of the biggest upcoming economies globally, share a complex connection when it comes to climate diplomacy. Although they compete globally, they have also worked together on specific climate matters, especially in supporting the Common but Differentiated Responsibilities (CBDR) principle during global climate talks. Both countries argue that developed nations, traditionally the main sources of greenhouse gas emissions, should bear more of the burden for addressing climate change. This shared stance was evident during the negotiations

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that led to the 2015 Paris Agreement, with both countries supporting flexibility in commitments for developing nations.

- Although there are times when they work together, lingering distrust and competition can hinder extended cooperation. Both nations are seeking fast economic expansion, frequently through industries that require a lot of resources, leading to difficulties in reconciling environmental obligations with financial goals. Moreover, India and China are increasing their renewable energy industries, with China taking the lead in generating solar and wind power. Despite some technology sharing in renewable energy, the focus on energy security and economic independence in both countries may restrict their collaboration opportunities.

### **India and Pakistan**

- In the past, India and Pakistan have had a strained relationship that frequently results in political tensions affecting climate diplomacy. However, there have been some important examples of collaboration in the environment. The Indus Waters Treaty (IWT), created in 1960, is seen as one of the most successful international pacts for distributing cross-border water resources on a global scale. It distributes the waters of the Indus River and its tributaries between India and Pakistan, establishing a system for handling common resources even in times of political strain. Even though there have been some disagreements about building dams and redirecting water, the IWT has still been upheld, demonstrating how targeted environmental agreements can serve as stabilizing influences.
- Both countries are equally worried about air pollution, experiencing severe smog at specific times of the year. Nonetheless, political conflicts frequently hinder significant cooperation regarding air quality problems, as each party accuses the other of agricultural burning and other pollution-causing practices. However, specialists contend that implementing a regional strategy for managing air quality, such as coordinating air quality monitoring and regulations, could be advantageous for both countries.

### **China and Pakistan**

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- China and Pakistan have formed a strong alliance, working together on building infrastructure and promoting economic growth via the China-Pakistan Economic Corridor (CPEC), an essential part of China's Belt and Road Initiative. CPEC involves different initiatives in clean energy, water control, and ecological sustainability, with the goal of enhancing Pakistan's energy infrastructure and encouraging eco-friendly progress. Certain projects, like hydroelectric ventures, have sparked worries about their effects on nearby ecosystems and displacement of local residents. Nevertheless, the collaboration is mostly viewed as a beneficial move in tackling Pakistan's energy requirements and lessening its dependence on fossil fuels.
- China's involvement with Pakistan is shaped by its overall geopolitical agenda in South Asia, aiming to boost its influence in the region. Although the collaboration has improved Pakistan's environment, it also serves as a way for China to diminish India's influence in the area by incorporating environmental initiatives into a broader strategic plan.

### **3.2 Role of Environmental Statecraft in India-China-Pakistan Relations**

In South Asia, environmental diplomacy is closely connected to broader geopolitical strategies, with climate issues serving as both collaboration and contention points. Analyzing regional power dynamics, conflict resolution opportunities, and participation in multilateral forums is key to understanding environmental statecraft among India, China, and Pakistan.

#### **Regional Power Dynamics**

- China's rise as a prominent player in renewable energy and environmental efforts has brought added intricacy to climate talks in South Asia. China has established itself as a key figure in climate diplomacy, presenting itself as a responsible player on the world stage. India has also made progress in renewable energy and has aimed to enhance its presence in global climate discussions. Nevertheless, their conflicting economic priorities and desires for dominance in the region can occasionally weaken cooperation on environmental concerns.
- Pakistan's strategic alliance with China provides the country with resources and technology it may not have access to otherwise. Still, Pakistan's dependence on

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China's climate and development strategies due to the imbalance in their relationship can impact Pakistan's environmental plans.

### **Conflict Resolution through Environmental Diplomacy**

Environmental problems offer distinct chances for promoting peace and resolving conflicts, especially in the relationship between India and Pakistan. The Indus Waters Treaty is a great illustration of how environmental diplomacy can ease conflicts over shared resources. Comparable frameworks could also be applied to other areas, like managing air quality, responding to disasters, and adapting to climate change. Environmental diplomacy could offer an opportunity for discussion on mutual issues, enabling these nations to establish confidence and interact positively despite overarching political strains.

### **Multilateral Engagement**

India, China, and Pakistan are all participants in different regional groups, such as the South Asian Association for Regional Cooperation (SAARC) and the Shanghai Cooperation Organisation (SCO). These groups offer spaces for conversations and teamwork concerning the environment. Nevertheless, the effectiveness of these forums is often hindered by political conflicts and conflicting agendas. The SAARC organization has faced challenges in achieving concrete environmental results because of the tensions between India and Pakistan. On the other hand, the SCO, in which China plays a key role, shows greater potential for collaboration on environmental issues in the region, despite its somewhat restricted environmental priorities.

### **Chapter 4. Case Studies of Environmental Diplomacy between India, China, and Pakistan**

India, China, and Pakistan engage in environmental diplomacy that involves a mixture of collaboration, rivalry, and intricate political strategies. Analyzing the Indus Waters Treaty, local disaster response systems, and efforts to combat air pollution can help us understand the possibilities and constraints of environmental diplomacy in South Asia. These examples show how environmental problems overlap with political issues, presenting chances for collaboration in a notably tense geopolitical environment.

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#### **4.1 The Indus Waters Treaty: A Model for Resource Sharing and Its Environmental Impact**

The Indus Waters Treaty (IWT), established in 1960 with the help of the World Bank, is still seen as a significant achievement in international water cooperation. The treaty divides control of the six rivers in the Indus River system between India and Pakistan, with India overseeing the eastern rivers (Ravi, Beas, and Sutlej) and Pakistan managing the western rivers (Indus, Jhelum, and Chenab). This agreement creates a thorough structure for sharing water and resolving disputes.

##### **Significance of the Indus Waters Treaty**

- The IWT's ability to withstand challenges is impressive, particularly considering the long history of disputes and tensions between India and Pakistan. In spite of conflicts and small battles, the treaty has remained in effect, highlighting the importance of environmental diplomacy as a stabilizing factor. The treaty contains measures for working together on water management, resolving disputes, and sharing data, enabling both countries to effectively manage water resources even during times of increased political tensions.
- The International Water Treaty (IWT) demonstrates that diplomacy focused on the environment can encourage collaboration and lessen tensions, even among adversaries, through creating a structure for peaceful water distribution. This provides a useful blueprint for other international water-sharing agreements, especially in areas with scarce resources and potential conflicts. The agreement shows that sharing resources can bridge political gaps and support cooperation on important environmental matters.

##### **Challenges and Criticism**

- Although effective in various aspects, the IWT has its own set of limitations. Climate change has significantly changed the amount and movement of water in the Indus Basin, creating fresh obstacles for the treaty's long-term viability. The treaty's framework is being strained by melting glaciers, shifting monsoon patterns, and rising water demand, due to both countries facing seasonal water shortages and fluctuations.

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Moreover, the increased population and larger agricultural and industrial activities have raised the need for water, causing the initial allocations to appear outdated.

- Both India and Pakistan have accused each other of breaking the treaty, resulting in ongoing conflicts over dam development, water diversion, and hydropower installations. These issues have caused calls for the treaty to be renegotiated, with specialists suggesting changes to mirror present environmental circumstances. Furthermore, the IWT lacks essential provisions for maintaining ecosystem health, placing more importance on water quantity than on water quality and preserving biodiversity. Water infrastructure developments, such as dams and irrigation canals, have resulted in environmental harm and a decrease in biodiversity in the area, raising worries about the lasting viability of the river basin.
- The IWT's strengths and weaknesses demonstrate the impact of environmental statecraft, highlighting how resource-sharing agreements can promote stability but must adapt to evolving environmental and geopolitical factors to remain effective.

#### **4.2 Regional Cooperation in Disaster Response**

- The growing number and strength of climate-related disasters in South Asia emphasize the significance of collaborating on disaster response. Earthquakes, floods, and cyclones can affect numerous countries at the same time, emphasizing common vulnerabilities and the importance of regional unity. In spite of political tensions, India, Pakistan, and China have at times worked together on providing humanitarian assistance and disaster relief, showing the promise of environmental diplomacy in bringing them together.

#### **Joint Responses to Natural Disasters**

- Occurrences of natural calamities like earthquakes and floods can create chances for collaboration, even between hostile nations. India and Pakistan have sometimes collaborated on providing humanitarian aid and assistance during natural disasters. In 2005, during a strong earthquake in northern Pakistan and parts of India-administered Kashmir, India offered assistance to Pakistan, showing that humanitarian issues can sometimes be more important than political conflicts. Similarly, China has offered

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assistance to both India and Pakistan in times of natural disasters, recognizing the shared need for emergency response capabilities in the region.

- These instances of cooperation show how environmental diplomacy can enhance connections and foster confidence between nations. Although they are usually unplanned, collaborating in disaster response shows the importance of helping each other during climate-related crises. This kind of collaboration can lead to increased structured agreements and teamwork on disaster management and preparedness.

### **The SAARC Disaster Management Centre**

- The SAARC established the SDMC to enhance regional cooperation in disaster preparedness, risk reduction, and management. The goal of the SDMC is to improve collaboration among regional countries in dealing with natural catastrophes, allowing member nations to exchange information, assets, and successful strategies.
- Yet, the SDMC's efficiency has been constrained, mainly because of political disputes and financial obstacles within SAARC. India and Pakistan's tense relations frequently hinder meaningful advancements, as political conflicts take precedence over collaborative efforts in disaster preparedness. While the SDMC tries to establish regional collaboration on climate-related crises, it has faced challenges due to conflicting national goals and inconsistent political support.
- Efforts in responding to disasters in the region highlight how crucial it is to be prepared and work together when facing climate-related risks, showcasing the opportunities and difficulties of environmental diplomacy in South Asia.

### **4.3 Air Pollution and Transboundary Haze: Bilateral and Regional Efforts for Air Quality Management**

- Air pollution is a serious problem that affects all of South Asia, causing major health expenses and cross-border effects. India, Pakistan, and China have some of the highest pollution levels in the world, with major cities often reporting harmful levels of particulate matter. The primary sources of pollution are industrial waste, vehicle emissions, and crop burning, which combine to create harmful air quality in the region.

### **Sources and Impact of Air Pollution**

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- Air pollution in South Asia affects millions of people, causing respiratory diseases, reducing life expectancy, and interrupting industries such as agriculture and tourism. During specific times of the year, air quality is negatively affected across borders by transboundary haze resulting from agricultural burning in both Indian and Pakistani Punjab. The combination of industrial emissions, vehicle exhaust, and seasonal pollution presents serious health hazards to people living in crowded cities such as Delhi, Lahore, and Beijing.
- Although every nation has put in place individual measures to address air pollution, collaboration among regions to improve air quality is still restricted. Joint cooperation is necessary due to air pollution crossing borders easily, rendering a solely domestic approach ineffective.

### **India-China Cooperation on Air Pollution**

- India and China have acknowledged the significance of working together across borders to manage air quality, particularly in regions along the border. Recently, both nations have started working together on programs to oversee air quality and exchange information, with the goal of reducing pollution in critical locations. Many times, these efforts involve sharing knowledge about ways to reduce pollution and utilize eco-friendly technologies like electric cars and sustainable energy sources in order to lessen the negative effects of burning fossil fuels.
- Nevertheless, political tensions frequently impede progress. During border conflicts, cooperation on environmental issues declines as political disputes become more important than climate alliances. Still, the minimal collaboration between India and China regarding air quality shows that environmental diplomacy can tackle common challenges despite a complicated geopolitical environment.

### **Lack of India-Pakistan Collaboration on Air Pollution**

- Even though both countries are facing an air quality crisis, the level of collaboration between India and Pakistan to address air pollution is very low. Political tensions often hinder effective measures on air quality, despite both countries suffering from transboundary haze, especially during crop-burning season. Lack of cooperation

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prevents effective solutions, as both countries concentrate on internal actions that are usually not enough to solve the problem at a regional level.

- International groups such as UNEP can assist in facilitating the regulation of air quality between countries. However, political conflicts and distrust continue to impede progress. Specialists think that setting up a regional system to monitor air quality and enforcing uniform pollution controls would benefit all parties, even though there has been little progress in these initiatives.

## **Chapter 5. Comparative Analysis: Diplomatic Strategies of India, China, and Pakistan**

### **5.1 India's Climate Diplomacy Approach: Balancing Development and Environmental Protection**

India's climate diplomacy carefully balances environmental objectives and economic growth.

- India is dedicated to shifting to renewable energy with the goal of obtaining 50% of its energy capacity from non-fossil fuel sources by 2030. Efforts like the International Solar Alliance, which was established with India as a co-founder, demonstrate the nation's commitment to taking the lead in solar energy and fostering global partnerships for clean energy.
- India promotes "climate justice" and the Common but Differentiated Responsibilities (CBDR) principle in global negotiations on the developing economy status, arguing that developed nations should take on more responsibility for addressing climate change. India's position highlights the importance of providing financial and technological assistance to developing countries.
- India needs to balance its domestic needs and international commitments while trying to synchronize its development goals with its environmental duties. The government must prioritize decreasing poverty and boosting economic growth, which frequently depend on industries with high energy consumption. India's growing dedication to international climate efforts is influenced by its two-pronged focus, resulting in a careful strategy.

### **5.2 China's Role as a Global Environmental Leader and Challenges in Domestic Pollution Control**

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China's extensive and intricate climate diplomacy reflects its role as the top global carbon emitter and a key participant in global environmental efforts.

- China is now a leading investor in renewable energy and has pledged to achieve carbon neutrality by 2060, demonstrating its international environmental leadership. China's Belt and Road Initiative (BRI) integrates green finance elements to promote sustainable infrastructure growth in affiliated countries.
- China leads the world in the production of solar panels, wind turbines, and electric vehicles due to its technological investment in green energy. By taking the lead in these technologies, it cements its status as a major player in the global green economy, giving it an edge in climate negotiations.
- Despite these advancements, China still encounters major pollution issues within its own cities. Finding a balance between advancing industrial growth and protecting the environment continues to be a major challenge. This inconsistency frequently affects China's credibility in global forums, where some nations see its international leadership as not aligning with its domestic policies.

### **5.3 Pakistan's Vulnerability and Climate Diplomacy Focus on Adaptation**

Pakistan places a strong emphasis on adaptation in its climate diplomacy due to its extreme susceptibility to climate effects.

- Pakistan is highly impacted by climate change as it is prone to floods, droughts, and glacial melting, making it one of the most vulnerable countries. This vulnerability influences its diplomatic strategy, focusing on providing funding for adaptation and international aid to strengthen resilience.
- Pakistan is calling for more climate financing and support from developed nations, stating that it requires significant financial assistance to carry out successful adaptation efforts. This position is in line with Pakistan's restricted financial capability and emphasizes its dependence on global assistance to tackle environmental challenges.
- Constraints in regional collaboration: While Pakistan is active in multilateral forums, it faces challenges in establishing bilateral environmental agreements, especially with

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India. Internal political turmoil and financial restrictions also restrict its authority in regional climate negotiations.

## **Chapter 6. Key Challenges and Opportunities in Regional Climate Diplomacy**

### **6.1 Geopolitical Tensions and Their Impact on Environmental Collaboration**

Geopolitical tensions in South Asia greatly impede environmental cooperation:

- The long-standing enmity between India and Pakistan presents significant obstacles for collaborative environmental efforts, particularly concerning mutual water resources and cross-border pollution.
- Competition between India and China also poses obstacles for climate diplomacy. Even though they collaborate at times on global climate issues, their competition over local influence frequently obstructs further collaboration.
- The absence of trust between these countries obstructs the growth of robust, open environmental collaboration frameworks. The absence of trust obstructs efforts to share information, implement joint projects, and negotiate agreements in the area.

### **6.2 Economic Dependencies and Their Role in Shaping Environmental Policies**

The interconnections of their economies impact the climate strategies and willingness to work together in these nations:

- China's significant economic impact on Pakistan greatly affects Pakistan's climate policy, largely driven by investments made through CPEC. Concerns persist about the environmental consequences of coal-fired plants and infrastructure growth in CPEC, despite the inclusion of renewable energy initiatives.
- India's economic limitations: India's climate strategies are frequently influenced by its requirements for growth. India's need for cheap energy from coal causes conflict between its development aims and environmental targets.
- Regional Economic Inequalities: The disparity in economic status between China and the other two nations impacts their negotiating strength in climate talks. China's strong economic position allows it to take the lead on climate initiatives, while India and Pakistan have limited room for diplomatic maneuvering.

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### 6.3 Regional Opportunities for Cooperation

Even though there are difficulties, there are chances for environmental cooperation, offering possible ways to enhance climate resilience:

- **Initiatives for Renewable Energy:** Both India and China have made investments in renewable energy technologies and may find advantages in forming partnerships at a regional level for solar and wind energy. Investing together in regional grids and international renewable energy projects could improve energy security and decrease dependence on fossil fuels.
- **Sharing knowledge and technology:** China's progress in electric vehicles, green finance, and pollution control may be advantageous for neighboring nations. Knowledge-sharing platforms, backed by international organizations, have the potential to enhance environmental management practices throughout South Asia.
- **Cross-Border Water Management:** The Indus Waters Treaty sets an example for handling shared water resources. Broadening these agreements to encompass more extensive environmental safeguards and sustainable water management practices could improve ability to withstand water scarcity caused by climate change.
- **Collaborative disaster response and resilience-building** can enhance cooperation in constructing disaster preparedness frameworks. Cooperative methods for disaster early warning systems, relief efforts, and post-disaster recovery could enhance regional connections and lessen the impact of climate-induced disasters on people and economies.

## Chapter 7. Policy Recommendations for Strengthening Climate Diplomacy in South Asia

India, China, and Pakistan could look into implementing focused policies and programs to tackle the urgent environmental issues in the region, promoting cooperation, easing tensions, and enhancing resilience. These suggestions aim to improve environmental collaboration by recognizing the distinct obstacles and capabilities of each country.

### 7.1 Establishing a Regional Climate Diplomacy Forum

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- **Objective:** Establish a specific platform centered on climate diplomacy to encourage frequent discussions about environmental issues, synchronize climate objectives, and tackle shared obstacles.
- **Organization and involvement:** This forum could function within a regional group such as SAARC or the Shanghai Cooperation Organization (SCO), with participation from national governments, local experts, and international environmental organizations.
- **Benefits:** Creating a local meeting place would make environmental discussions official, making it easier to understand water distribution, manage pollution, and prepare for disasters.

### 7.2 Strengthening Transboundary Water Agreements with Climate-Resilient Provisions

- It is crucial to revise existing agreements such as the Indus Waters Treaty (IWT) to incorporate climate-resistant strategies. This might include introducing flexible water allocation during periods of drought and enhancing strategies for managing floods.
- Developing fresh agreements: Broadening water-sharing frameworks to encompass extra environmental safeguards, sharing of data, and collaborative conservation initiatives could alleviate water pressures linked to climate change.
- Implementing integrated river basin management practices, focusing on sustainable water use and ecosystem health, could improve water security in the long term and avoid conflicts over resources.

### 7.3 Promoting Joint Renewable Energy Projects and Regional Energy Sharing

- Building interconnected energy grids across borders can help stabilize power supplies and decrease dependence on coal and other fossil fuels by distributing renewable energy. China's skill in renewable energy infrastructure could be beneficial in similar initiatives.
- Cooperative Solar and Wind Projects: Working together on investments in solar and wind energy could assist each nation in meeting climate objectives and promoting economic partnership. India and China, being top renewable energy producers, might take the lead in these endeavors and could share their knowledge with Pakistan.

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- Establishing a green fund within the region, funded by contributions from all countries and global organizations, could encourage renewable energy initiatives and lower financial obstacles to sustainable energy transitions.

#### **7.4 Addressing Air Pollution Through Coordinated Regional Action Plans**

- Creating a regional network for monitoring air quality and sharing data, including information on pollution levels and sources of emissions, would enhance transparency and assist countries in formulating productive air quality management strategies.
- Cooperative efforts to reduce agricultural burning: Agricultural burning in India and Pakistan is a major factor in seasonal smog. Collaborating on new farming methods and offering rewards for sustainable agriculture may help decrease cross-border air pollution.
- Implementing standardized emission regulations, similar to those used in the EU, could aid in lowering pollution levels from industries and vehicles across the region. These standards should be customized based on the economic capabilities of each nation while aiming for a substantial decrease in pollution overall.

#### **7.5 Developing Disaster Preparedness and Climate Resilience Initiatives**

- Implementing effective early warning systems for floods, droughts, and other climate-related disasters in regional areas would enhance readiness across borders, specifically in regions close to rivers and mountain ranges susceptible to severe weather occurrences.
- Creating a system for disaster relief and response: Setting up a shared framework with predetermined procedures for international aid could enhance resilience in the area. Given additional resources, India and China could offer support and training to improve Pakistan's disaster response capabilities.
- Starting joint initiatives in climate-susceptible regions like coastal and riverine areas could enhance resilience in communities disproportionately affected by climate change. These efforts may include infrastructure that can withstand floods, farming practices that can endure droughts, and projects aimed at preserving forests.

#### **7.6 Leveraging International Platforms for Regional Support**

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- Collaboration with International Organizations: Partnering with the United Nations Framework Convention on Climate Change (UNFCCC), the World Bank, and other multilateral organizations can offer support and financial resources for local climate projects. These collaborations can also promote openness and enable the exchange of information.
- Countries such as the United States, Japan, and European Union members have shown interest in backing Asian climate projects through bilateral and multilateral agreements with external partners. Establishing alliances with these nations could provide further knowledge, funding, and advancements in technology.
- Pushing for Climate Finance: Collaboratively advocating for more climate finance, particularly for adaptation initiatives in South Asia, would strengthen the region's ability to withstand climate change and tackle monetary limitations.

## Chapter 8. Conclusion

During a time of increasing climate difficulties, using environmental diplomacy becomes essential for promoting collaboration and strength in South Asia. Despite their intricate geopolitical ties, India, China, and Pakistan, neighboring nations facing similar environmental challenges, can participate in important climate diplomacy efforts.

This study has analyzed the regional climate diplomacy scene, pointing out the distinct climate issues facing South Asia, such as water scarcity, pollution, and climate-related disasters. By examining examples of water-sharing, disaster response, and air quality management, the study has shown the challenges and possibilities of collaboration among India, China, and Pakistan.

The comparison shows that each country's climate diplomacy aligns with its own national interests: India prioritizes balancing development with environmental goals, China emphasizes technology investment and global environmental leadership, and Pakistan focuses on adaptation strategies driven by vulnerability. Although these different methods present difficulties, they also showcase corresponding abilities that could strengthen regional resilience if utilized effectively.

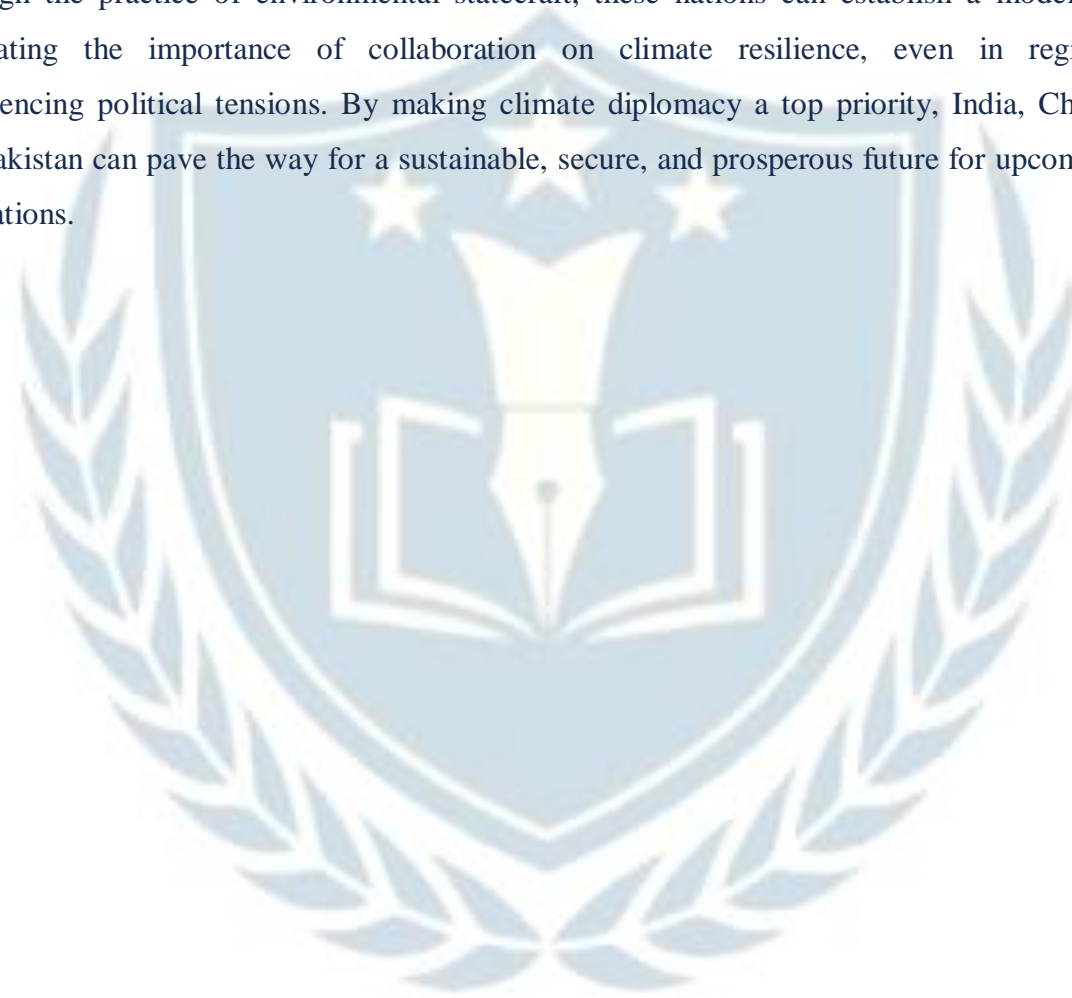
The policy suggestions outlined here focus on concrete actions to promote regional climate resilience. These involve setting up a specialized climate diplomacy platform, encouraging

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collaboration on renewable energy, revising water-sharing agreements, and forming integrated air quality management systems. India, China, and Pakistan can collaborate on achieving a sustainable future for South Asia by focusing on common objectives instead of political disagreements. This method of environmental diplomacy can aid in solving environmental problems and fostering regional peace and economic growth.

Due to climate change, South Asia is at a crucial point in time as global geopolitics shift. Through the practice of environmental statecraft, these nations can establish a model by illustrating the importance of collaboration on climate resilience, even in regions experiencing political tensions. By making climate diplomacy a top priority, India, China, and Pakistan can pave the way for a sustainable, secure, and prosperous future for upcoming generations.



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