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COP29

PAKISTAN PAVILION EVENTS

NOVEMBER 11-22, 2024

Ministry of Climate Change & Environmental Coordination
GOVERNMENT OF PAKISTAN



Executive Summary

Pakistan's Pavilion at COP29 was a vibrant and dynamic hub, offering a comprehensive platform for global stakeholders to engage with Pakistan's innovative climate solutions and sustainability efforts. Over the course of the event, Pakistan demonstrated its commitment to addressing the climate crisis through resilience-building, innovative partnerships, and a multisectoral approach. The Pavilion hosted over 50 events across various sectors, underscoring Pakistan's active participation in international climate negotiations and its leadership in fostering global collaboration on climate action.

The events at the Pavilion reflected Pakistan's multi-sectoral approach to climate action, encompassing themes such as climate finance, gender equality, agricultural resilience, industrial decarbonization, and ecosystem restoration, a summary of the key events is provided below:

1. **National Climate Finance Strategy (Nov 14):** Unveiled by Finance Minister Muhammad Aurangzeb, it mapped a \$348 billion pathway for climate adaptation by 2030.
2. **Two judiciary events** were conducted at the Pakistan Pavilion, attended by Honorable Justice Mr. Mansoor Ali Shah, Supreme Court of Pakistan, Justice Ayesha A. Malik, Supreme Court of Pakistan, Justice Antonio Herman Benjamin, Superior Tribunal de Justica, National High Court of Brazil, Justice Luc Lavrysen, President of the Constitutional Court of Belgium, Justice Sapana Malla from the Supreme Court of Nepal, Honorable Mr. Justice Jawad Hassan, Lahore High Court, Lahore. They emphasized the critical role of the judiciary in addressing the climate crisis and ensuring climate justice.
3. **Acumen Climate Action Fund (Nov 14):** A \$90 million investment targeting smallholder farmers to enhance food security and climate resilience.
4. **Carbon Markets Policy Launch (Nov 16):** Introduced by Mohamed Nasheed, former President Maldives and representing CVF-V20, this policy accelerates clean technology investments, aligning with Pakistan's NDCs under the Paris Agreement.
5. **GGGI Country Programme Framework (2024-2028):** Signed with GGGI, this agreement prioritizes climate financing and sustainable development, strengthening Pakistan's green economy.
6. **CM Sindh Delta Blue Carbon Project:** Led by Syed Murad Ali Shah, this initiative highlighted mangrove restoration's role in carbon sequestration and community engagement along with a session on Sindh People's Housing for Flood Affectees (SPHF) program
7. **IAEA International Event** at the Pakistan Pavilion launched its events with a high-level session on "Decarbonizing the Cotton-to-Clothing Value Chain," led IAEA in collaboration with Government of Pakistan, FAO, and UNIDO. Director General from IAEA, FAO and UNIDO Participated along with ministerial level participation from Azerbaijan and Burkina Faso.

8. **Green Technology Hub** (Nov 20): Presented by Ahya Tech's Salal Hasan, in collaboration with Ignite, three startups were awarded cash prizes for their innovative technologies, namely EcoEdge AI and SAWiE Ecosys to drive climate-smart innovation.
9. **Global Shield request for support:** The Official Handover of Pakistan's CDRFI Request for Support to Global Shield event was held on 19th November 2024 at the Pakistan Pavilion, organized by the Ministry of Climate Change & Environmental Coordination (MoCC&EC), UNDP, and Global Shield. The event, attended by key international experts and policymakers, highlighted Pakistan's commitment to enhancing financial protection against climate-induced disasters.
10. **Provincial Event** In addition to this Provincial governments from Khyber Pakhtunkhwa, Balochistan and Gilgit Baltistan conducted several events at the Pavilion. They highlighted their specific initiatives and showcased achievements in the space of afforestation, natural habitat recon
11. **UNICEF and Government of Pakistan** signed a crucial declaration with to prioritize child-centric climate adaptation. The focus was on incorporating children's needs into Pakistan's climate strategies, especially considering the country's vulnerability to climate disasters.
12. **Regional Roundtable on Smog;** A Roundtable on smog mitigation was also held having representation from India, Bangladesh and Nepal. Moderated by Mr. Sanjay Vashisht (CANSAs), with panelists including Romina Khurshid Alam and Dr. Abid Suleri (SDPI).
13. **Cambridge University Scholarships:** Letter of support for 150 online scholarships with University of Cambridge
14. **A gender equity seal was signed with Pathfinder International:** The discussion emphasized the launch of the Gender and Climate Equity Seal, a joint initiative promoting gender-responsive and climate-friendly policies.
15. **CVF-V20** Regional investment conference: The Climate Vulnerable Forum (CVF), in partnership with Pakistan, hosted a session aimed at mobilizing investments for clean energy and climate resilience projects in CVF-V20 nations. The event featured presentations from Sri Lanka and Ghana on their Climate Prosperity Plans (CPPs), which showcased transformative climate projects from Pakistan, Sri Lanka and Ghana designed to attract private sector investment
16. **The National Disaster Management Authority (NDMA),"** led by Lt. Gen. Inam Haider Malik contributed to critical discussions on disaster resilience, gender-based vulnerabilities, and climate diplomacy. NDMA's participation highlighted Pakistan's commitment to integrating disaster risk management.
17. **Private Sector engagement:** The Overseas Investors Chamber of Commerce and Industry (OICCI) hosted a panel discussion. The session highlighted the essential role of the private sector in driving climate solutions, with a particular focus on mobilizing climate finance and investment for sustainable projects in Pakistan.
18. **Industrial Decarbonization & Climate Finance:** This session focused on the challenges and opportunities associated with decarbonizing Pakistan's industrial sector and the role of climate finance in supporting this transition. Speakers included Dr. Abid Qaiyum Suleri, Bilal Anwar, Ahmed Hayat Lak, Nadia Rehman, and Andrew Bailey.

19. **Catalysing Pakistan's Energy Transition:** Organized by the Sustainable Development Policy Institute (SDPI) and the National Energy Efficiency and Conservation Authority (NEECA), this event aimed to explore Pakistan's energy transition challenges and opportunities, particularly the potential for the early retirement of coal power plants. Mr. Shah Jahan Mirza of the Private Power and Infrastructure Board concluded the session.
20. **Sustainable Nitrogen Management:** Collaborative Solutions for Climate Change, Environment, and Food Security" at the Pakistan Pavilion, in collaboration with INMS, INI, SANH, CIWF, UNEP, and UAF. The session emphasized the pivotal role of nitrogen in addressing global environmental challenges, climate change, and food security.

The Pakistan Pavilion successfully amplified the country's voice on the global climate stage, offering a platform for meaningful collaboration and knowledge exchange. By addressing critical themes like disaster risk financing, gender-responsive policies, and youth inclusion, the Pavilion demonstrated Pakistan's ability to lead by example in tackling pressing climate challenges.

With its focus on actionable strategies and inclusivity, the Pavilion positioned Pakistan as a key contributor to international climate solutions. The high engagement, influential discussions, and strategic outcomes achieved at COP29 underscore the Pavilion's success in fostering innovation, partnerships, and a shared commitment to a sustainable future.

A key highlight of the Pakistan Pavilion was its ability to attract diverse audiences, with approximately 450-500 visitors attending daily. These visitors included representatives from governments, international organizations, non-governmental organizations, academia, and the private sector. The Pavilion provided a unique platform for participants to engage with Pakistan's climate initiatives, learn from its experiences, and explore opportunities for partnerships. This significant footfall underscored the global community's keen interest in Pakistan's strategies, reflecting the Pavilion's success in fostering a dynamic exchange of ideas and solutions.



Details of Events at Pakistan Pavilion

1. 12th NOVEMBER 2024

The opening of events at the Pakistan Pavilion began with a high-level session on “Decarbonizing and Adapting the Cotton-to-Clothing Value Chain through Multisectoral Partnerships”. This event focused on the development of climate-resilient cotton varieties using nuclear techniques. It was organized in collaboration with the International Atomic Energy Agency (IAEA), Food and Agriculture Organization (FAO), United Nations Industrial Development Organization (UNIDO), and the World Trade Organization (WTO). The event attracted attention from key stakeholders, including representatives from Azerbaijan and other international bodies. The discussions centered around enhancing cotton production resilience through innovative technologies and fostering global partnerships to drive sustainable agricultural practices in the cotton industry.



2. 13th NOVEMBER 2024:

The second day featured a series of diverse events, addressing topics ranging from climate diplomacy and gender equality to youth involvement in climate action and technology-driven climate finance solutions. These sessions attracted representatives from governments, international organizations, non-governmental organizations, and academia.

2.1. Global Advocacy on Climate Diplomacy for effective Negotiations for Innovative Climate Solutions

A key event, “Climate Diplomacy to Build Bridges for a Sustainable Future”, was organized by the Ministry of Climate Change & Environmental Coordination and the Center of Climate Diplomacy. This session underscored the critical intersection between climate diplomacy and disaster resilience. The event was attended by Climate Diplomacy Ambassadors, international organizations, and representatives from various sectors. The Chairman of Pakistan’s National Disaster Management Authority (NDMA) delivered a keynote on "Strengthening Resilience through Climate Diplomacy in Disaster Management." He highlighted Pakistan’s commitment to international cooperation, disaster risk management, and climate financing. Participants discussed building stronger regional alliances and developing innovative solutions, such as renewable resources and green technologies, to address climate risks.



2.2. Panel Discussion on Gender-Based Violence and Sexual Health at COP29- NDMA

The National Disaster Management Authority (NDMA) hosted a pivotal session on "Exacerbation of Gender-Based Violence (GBV) and Sexual and Reproductive Health (SRH) Issues in Women & Adolescent Girls Due to the Climate Crisis." This session brought together experts and practitioners to explore the heightened vulnerabilities of women and girls in the face of climate-induced disasters. The Chairman of NDMA emphasized the importance of policy frameworks and locally-led solutions to address these issues during climate emergencies. The panelists discussed the integration of SRH and GBV response mechanisms into disaster management plans, reinforcing Pakistan's dedication to gender-sensitive approaches in climate disaster response.



2.3. Global Youth Leadership in Climate Action- COMSATS

A special event, “Global Youth Leadership in Climate Action,” organized by the Commission on Science and Technology for Sustainable Development in the South (COMSATS) and the Ministry of Climate Change & Environmental Coordination, showcased the role of youth in driving climate solutions. The panel included youth climate activists from countries like Benin, Chile, India, Jordan, Liberia, Pakistan, and the United Kingdom, along with representatives from youth campaigns such as “HEY Campaign”, “Plant for the Planet”, and “Youth for Climate”. Ms. Romina Khurshid Alam, Coordinator to the Prime Minister on Climate Change, emphasized the power of youth to lead climate action and the importance of connecting young leaders with policymakers. This session highlighted the need for youth-inclusive strategies to accelerate the achievement of sustainable development goals.



2.4. Pakistan’s NDC Technology Roadmap for the Waste and Water Sector to leverage Climate Finance – Global Green Growth Institute

In collaboration with the Global Green Growth Institute (GGGI), Pakistan hosted a session on “Pakistan’s NDC Technology Roadmap for the Waste and Water Sector to Leverage Climate Finance.” This event outlined Pakistan's strategic roadmap to meet its climate goals under the Paris Agreement. The session focused on the integration of technology needs assessment, regulatory frameworks, and funding mechanisms to drive the climate agenda for the waste and water sectors. Ms. Romina Khurshid Alam highlighted the importance of this roadmap in linking Nationally Determined Contributions (NDCs) with large-scale investment opportunities to transform Pakistan’s climate targets into actionable outcomes.

2.5. Signing of Pakistan’s Country Programme Framework Agreement with Global Green Growth Initiative (GGGI)

Another major highlight of the day was the signing of a four-year Country Programme Framework (CPF) Agreement between Pakistan and the Global Green Growth Initiative (GGGI). The agreement, running from 2024 to 2028, aims to advance Pakistan’s Sustainable Development Goals (SDGs) through targeted climate actions and green growth initiatives. The formal ceremony, held at the Pakistan Pavilion, was attended by Ms. Romina Khurshid Alam, who expressed appreciation for GGGI’s support in mobilizing green finance, fostering policy frameworks for climate action, and promoting investments in key sectors like



agriculture and energy. This agreement is aligned with both Pakistan’s national priorities and the GGI Strategy, 2030, and will facilitate Pakistan’s transition to a green economy.

2.6. Climate Prosperity Plan (CPP) – Investor Meeting by CVF-V20

The Climate Vulnerable Forum (CVF), in partnership with Pakistan, hosted a session aimed at mobilizing investments for clean energy and climate resilience projects in CVF-V20 nations. The event featured presentations from Sri Lanka and Ghana on their Climate Prosperity Plans (CPPs), which showcase transformative climate projects designed to attract private sector investment. Ms. Romina Khurshid Alam represented Pakistan, emphasizing the country’s commitment to renewable energy expansion, agricultural resilience, and leveraging green finance to bridge climate financing gaps. The session highlighted the importance of global cooperation and investments in low-carbon projects to achieve SDGs and enhance climate adaptation efforts.



3. 14th NOVEMBER 2024

On 14th November 2024, Pakistan’s Pavilion at COP29 continued to serve as a critical platform for climate action and global cooperation, hosting a series of influential events aimed at addressing urgent climate challenges. With a strong focus on climate finance, gender equality, public-private partnerships, and the role of women in the energy sector, the events highlighted Pakistan’s multifaceted approach to combating climate change. The events were attended by representatives from governments, international organizations, the private sector, and civil society, furthering dialogue on critical issues such as climate resilience, sustainable development, and social equity.

The Pavilion hosted the following key events:

3.1. Local Climate Action in Frontier Markets and launch of Acumen Fund-Pakistan

On the morning of 14th November, Acumen Fund, a global leader in impact investing, announced a transformative \$90 million commitment to climate finance in Pakistan. The Acumen Climate Action Fund (ACAF) aims to support 13 million smallholder farmers in Pakistan, promoting climate-resilient agricultural practices and food security through innovative financing mechanisms.

The event was addressed by Muhammad Aurangzeb, Finance Minister of Pakistan, who highlighted the significance of this initiative as a key milestone in Pakistan’s climate resilience strategy. Minister Aurangzeb emphasized that the fund would target



agribusinesses that enhance climate resilience, including solutions for smart farming, post-harvest technologies, and financial platforms for farmers. He noted that the ACAF represents the largest private-sector climate commitment for Pakistan, with potential to attract Foreign Direct Investment (FDI) and catalyze long-term growth in Pakistan’s agribusiness sector.

Romina Khurshid Alam, Coordinator to the Prime Minister on Climate Change, also spoke at the event, underscoring the critical role of smallholder farmers in Pakistan’s agricultural landscape. She pointed out that with climate change expected to reduce agricultural productivity by 8-10% by 2040, this initiative would be instrumental in enhancing agricultural resilience and ensuring food security for millions of Pakistanis.

3.2. Climate Finance Strategy—Ministry of Climate Change

In a significant step toward addressing Pakistan’s climate finance needs, the Ministry of Climate Change & Environmental Coordination (MoCC&EC) unveiled Pakistan’s National Climate Finance Strategy (NCFS). The strategy aims to bridge Pakistan’s climate finance gap, which is estimated at \$348 billion by 2030, by mobilizing both international and domestic resources to support climate resilience initiatives.

At the launch, Aisha Humera Moriani, Secretary of MoCC&EC, highlighted Pakistan’s ongoing efforts to combat climate challenges and enhance resilience in the face of extreme weather events. She emphasized the importance of institutional coordination and transparent mechanisms to access diverse funding sources, including multilateral climate financing.



Finance Minister Muhammad Aurangzeb further underscored the urgency of mobilizing international climate finance to support Pakistan’s adaptation and mitigation efforts, particularly in the aftermath of the catastrophic 2022 floods, which caused an estimated \$30 billion in damages. Romina Khurshid Alam added that the NCFS would integrate a whole-of-economy approach to climate-proof investments and allocate resources effectively, ensuring that sectors most vulnerable to climate change, such as agriculture, energy, and water management, are prioritized.



International experts, including WWF-Pakistan President Adil Najam and CVF-V20 Secretary-General Mohamed Nasheed, reiterated the need for developed nations to fulfill their climate finance pledges, noting that the NCFS could play a pivotal role in securing Pakistan’s climate resilience.

3.3. Private Sector Engagement: A key to Effective Climate Action

The Overseas Investors Chamber of Commerce and Industry (OICCI) hosted a panel discussion titled “Unlocking Pakistan’s Climate Future with Public-Private Partnerships” at the Pakistan Pavilion. The session highlighted the essential role of the private sector in driving climate solutions, with a particular focus on mobilizing climate finance and investment for sustainable projects in Pakistan.

OICCI President Abdul Aleem opened the discussion by emphasizing that climate change is Pakistan’s “biggest threat,” with the country’s economy and communities bearing the brunt of extreme weather events. He outlined the OICCI’s commitment to raising \$50 million for renewable energy and climate-smart projects, advocating for policy reforms that can incentivize green investments.

Panelists, including Andrew Bailey (BASF Pakistan), Rob Cameron (Nestlé), and Fiona Duggan (Unilever), shared insights into their respective companies’ efforts to achieve net-zero goals and integrate sustainability into supply chains. They discussed corporate-led initiatives that promote regenerative agriculture, enhance climate resilience, and ensure that businesses align with broader environmental and social goals.

The session also explored innovative financial tools such as sustainability-linked bonds, designed to de-risk investments in vulnerable regions and unlock private capital for climate projects. Experts including Thomas Beloe of UNDP and Dr. Abid Qaiyum Suleri of the Sustainable Development Policy Institute (SDPI) stressed the importance of collaboration across sectors to bridge Pakistan’s \$152 billion climate adaptation gap.

3.4. Women in Power – A Just Transition in the Global South

The Pakistan Environment Trust (PET) hosted a thought-provoking session on “Women in Power: A Just Transition in the Global South” during COP29. The event brought together prominent international speakers, including Rachel McEwen (SSE Chief Sustainability Officer), Kanika Chawla (Chief of Staff, SEforALL), and Philipp Trotter (Oxford University). The panel discussed the importance of a gender-inclusive transition to clean energy, focusing on how women can be empowered to play a central role in driving the global clean energy transition.



The discussion highlighted success stories from the Women in Energy Initiative, which has shown how targeted support and training can overcome barriers and foster women’s leadership in the energy sector. The speakers emphasized that ongoing investments in the skills and personal development of women are essential for achieving a just energy transition in the Global South.

4. 15th NOVEMBER 2024

On 15th November 2024, the Pakistan Pavilion at COP29 hosted a series of high-level discussions, bringing together a diverse array of international experts, policymakers, and stakeholders to explore critical pathways for Pakistan's climate resilience and energy transition. With a strong focus on energy transition, climate justice, industrial decarbonization, and gender equality, the sessions reflected Pakistan's commitment to addressing climate change through both domestic actions and international collaboration.

The key events hosted at the Pavilion on this day included:

4.1. Catalysing Pakistan's Energy Transition: Pathways to a Sustainable Future

Organized by the Sustainable Development Policy Institute (SDPI) and the National Energy Efficiency and Conservation Authority (NEECA), this event aimed to explore Pakistan's energy transition challenges and opportunities, particularly the potential for the early retirement of coal power plants. The session was moderated by Dr. Khalid Waleed of SDPI.

Liz Branden, Managing Director of ITrust, discussed Pakistan's renewable energy potential, emphasizing the country's ambition to reduce emissions by 30% and achieve 60% renewable energy in its energy mix by 2030. She highlighted the importance of international partnerships and innovative financing mechanisms to accelerate Pakistan's energy transition.



Dr. Sardar Moazzam from NEECA emphasized the role of energy efficiency in Pakistan's climate strategy, aiming for substantial CO2 reductions and cost savings. Other speakers, including Ms. Janet Molongo from Energy CANSA and Mr. Sanjay Vishist from Climate Action Network South Asia, highlighted the need for South Asia to phase out coal and embrace cleaner, renewable energy alternatives.

Shah Jahan Mirza of the Private Power and Infrastructure Board stressed the importance of community participation in the energy transition, ensuring inclusivity and broad-based support for the shift to renewable energy. Dr. Abid Qaiyum Suleri of SDPI further called for regional financing to support renewable energy goals and ensure a just transition.

The session concluded with a comparative analysis of countries like Argentina, which has successfully invested in renewable energy despite having significant fossil fuel reserves. The discussion suggested that Pakistan could follow a similar path, utilizing international partnerships to drive its renewable energy transition.

4.2. Judicial Pathway Towards Climate Justice

This event was organized by the Law & Justice Commission of Pakistan, focused on the crucial role of the judiciary in addressing the climate crisis and ensuring climate justice for vulnerable nations, especially in the Global South. The event was chaired by Justice Mansoor Ali Shah of the Supreme Court of Pakistan, and featured distinguished international judicial leaders including Justice Antonio Herman Benjamin (Brazil), Justice Luc Lavrysen (Belgium), Justice Sapana Malla (Nepal), and Senator Sherry Rehman (Pakistan).



The discussion underscored that climate finance has now become a fundamental human right, vital for both mitigation and adaptation efforts. Romina Khurshid Alam, Coordinator to the Prime Minister for Climate Change, called for stronger judicial systems to ensure accountability and climate justice for nations most affected by climate change, particularly the Global South.

The panelists discussed the need for a global legal framework to hold governments and corporations accountable for their climate actions. They also advocated for the creation of an international climate court to ensure that climate commitments are honored and that there is equitable access to climate finance. Furthermore, the session explored the intersection of climate justice with gender, highlighting the need for a gender-responsive approach in addressing climate impacts.

4.3. Integrating Science into Judicial Decision-Making

This session, organized by the Ministry of Climate Change & Environmental Coordination and the Law & Justice Commission, sought to explore how climate science can be better integrated into judicial decision-making. The session featured key speakers such as Honorable Justice Ayesha A. Malik, Dr. Adil Najam, Dr. Fahad Saeed, and Dr. Abid Qaiyum Suleri.



The panel discussed the importance of enhancing judicial understanding of climate science and the role of scientific experts in court cases, ensuring that climate science is treated as a credible source of evidence in legal proceedings. The session also emphasized the role of climate attribution science in determining responsibility for climate-related damages, such as loss and damage from extreme weather events.

Dr. Suleri stressed the importance of investing in scientific research to improve the quality of legal arguments related to climate change. The session concluded with the call for the creation of a regional forum to promote collaboration between judicial systems across South Asia to tackle emerging climate challenges.

4.4. Industrial Decarbonization and Climate Finance

This session focused on the challenges and opportunities associated with decarbonizing Pakistan's industrial sector and the role of climate finance in supporting this transition. Speakers included Dr. Abid Qaiyum Suleri, Bilal Anwar, Ahmed Hayat Lak, Nadia Rehman, and Andrew Bailey.

The discussion centered on the urgent need for decarbonization in industries, particularly small and medium-sized enterprises (SMEs), and the importance of supportive mechanisms such as green financing and innovative technologies. Dr. Suleri raised concerns about international trade pressures, particularly the EU's Carbon Border Adjustment Mechanism (CBAM), which could impact Pakistan's industrial exports.

Andrew Bailey from BASF Pakistan highlighted the critical role of the private sector in driving technological innovation and cleaner production processes. The speakers emphasized the potential of green hydrogen investments and other low-carbon technologies in creating new economic opportunities and green jobs for Pakistan's industrial sector.

The session concluded by stressing the need for collaboration between public and private sectors, and international partnerships, to accelerate industrial decarbonization and unlock new avenues for climate finance.

4.5. Promoting Gender Equality and Climate Resilience in Global Value Chains

On 15th November 2024, the Ministry of Climate Change & Environmental Coordination (MoCC&EC), in collaboration with Pathfinder International, hosted a panel at the Pakistan Pavilion to highlight the role of women in driving climate resilience. Panelists included Ms. Romina Khurshid Alam (MoCC&EC), Yosra Albakkar (Pathfinder International), Takako Ohyanu (Takeda Pharmaceuticals, Japan), and May Mahmoud (National Council for Women, Egypt).

The discussion emphasized the launch of the Gender and Climate Equity Seal, a joint initiative promoting gender-responsive and climate-friendly policies. Panelists underscored that women in leadership significantly boost climate action and reduce emissions. They stressed integrating gender into climate strategies, empowering women to tackle disasters, and enhancing



private sector contributions to gender equality within environmental, social, and governance standards. The event called for prioritizing investments in women to address their disproportionate vulnerability to climate change.

5. 16th NOVEMBER 2024

On 16th November 2024, Pakistan hosted a series of impactful events at its pavilion, in collaboration with various national and international organizations, to discuss key climate issues. These events highlighted the nation's commitment to addressing climate change and its efforts in advancing climate resilience, renewable energy, and disaster risk financing. The events covered diverse topics ranging from renewable

energy potential, child protection, carbon markets, and disaster risk financing to the importance of nature-based solutions and community resilience in the face of climate change.

5.1. Unlocking Pakistan's Renewable Energy Potential

The Ministry of Climate Change & Environmental Coordination (MoCC&EC) and the Pakistan Environment Trust (PET) organized an event on leveraging Renewable Energy Certificates (RECs) to promote renewable energy growth in Pakistan. Discussions focused on collaboration between Pakistan and Turkey to overcome barriers in the REC market and the broader challenges and opportunities for advancing renewable energy in the country. Parliamentary Secretary of MoCC&EC, Ahmed Atteeq Anwar, reaffirmed government support for green energy initiatives.



5.2. Declaration with UNICEF on Protecting Children from Climate Impacts

Pakistan signed a crucial declaration with UNICEF to prioritize child-centric climate adaptation. The focus was on incorporating children's needs into Pakistan's climate strategies, especially considering the country's vulnerability to climate disasters. Romina Khurshid Alam, Coordinator to the Prime Minister on Climate Change, and Chief Minister Murad Ali Shah emphasized the importance of climate-aware education, health, and resilient infrastructure to safeguard the future of Pakistan's children. UNICEF's Deputy Executive Director also stressed the need for increased investments in climate adaptation for children.



5.3. Strengthening Climate & Disaster Risk Financing; From Policy to Practice and the Way Forward for Pakistan

An event hosted by MoCC&EC and the National Disaster Management Authority (NDMA) addressed the intersection of climate change and disaster risk financing. The session aimed to align international climate finance mechanisms with Pakistan's needs for climate adaptation and disaster risk management. Keynote speeches and panel discussions featured experts like Lt. Gen Inam Haider Malik (Chairman, NDMA) and Daniel Clarke (Director, Centre for Disaster Protection, UK). Discussions focused on accelerating access to finance and fostering collaborations between national and international partners for enhanced climate resilience.

5.4. Launch of Pakistan Carbon Markets Guidelines

MoCC&EC, in collaboration with the Climate Vulnerable Forum (CVF-V20) and the Voluntary Carbon Markets Initiative (VCMI), launched the Pakistan Carbon Markets Policy at COP29. The policy is designed to accelerate clean technology deployment and attract investments in carbon-reduction sectors. The launch event highlighted the importance of carbon markets in meeting Pakistan's Nationally Determined Contributions (NDCs) and aligning with the Paris Agreement. Panelists, including Romina Khurshid Alam and former President Mohamed Nasheed of Maldives, emphasized how carbon markets could drive sustainable development and climate resilience.



5.5. Sindh People's Housing for Flood Affectees (SPHF) Program: A Blueprint for Global Resilience

The Sindh People's Housing for Flood Affectees (SPHF) program, led by the Government of Sindh, was showcased as a global model for climate-resilient housing. Chief Minister Syed Murad Ali Shah presented the success of the initiative, which has already constructed 2.1 million homes for flood-affected communities, creating economic opportunities and empowering marginalized populations, especially women. The program has been instrumental in ensuring accountability and transparency through its Management Information System (MIS), enabling the effective distribution of aid. The panel highlighted the potential for scaling such initiatives globally.



5.6. The Nature's Carbon Solution: The Delta Blue Carbon Story – Tech Zero: Navigating the Digital Frontier in Coastal Climate Solutions

The Sindh Forest Department hosted a session on the Delta Blue Carbon Phase-1 (DBC-1) project, which focuses on mangrove restoration in the Indus Delta. Chief Minister Syed Murad Ali Shah highlighted the project's role in mitigating climate change and promoting ecosystem restoration. The initiative, in collaboration with Indus Delta Capital Limited, has restored vital mangrove ecosystems and engaged local communities in conservation efforts. Mandy Rambharos, CEO of VERRA, praised DBC-1 as a pioneering blue carbon model. The event emphasized the importance of nature-based solutions for climate adaptation, particularly in coastal areas.

6. 18th NOVEMBER 2024

On 18th November 2024, the focus at the Pakistan Pavilion shifted to discussions on sustainable consumption, air quality, and youth engagement in climate action. The events highlighted Pakistan's approach to integrating youth in climate solutions and enhancing sustainable practices, especially in sectors like air quality and the circular economy.



6.1. Circular Economy Principles for Sustainable Consumption and Production in NDC 3.0 of Pakistan

This event, organized by MoCC&EC with SDPI, SACEP, and ILO, focused on integrating circular economy (CE) principles into Pakistan's Nationally Determined Contributions (NDC 3.0). The discussions emphasized the importance of sustainable consumption and production in addressing global environmental crises. Experts like Dr. Rene Van Berkel from SWITCH-Asia and Mustafa Ahmad from Artistic Milliners stressed the urgent need for bold policy actions to phase out unsustainable practices and promote circular economy initiatives. Zulfiqar Younas, Additional Secretary of MoCC&EC, reaffirmed Pakistan's commitment to climate action through its NDC 3.0.

6.2. Transforming Air Quality in Punjab

The Punjab Environmental Protection Agency (EPA), in collaboration with the Ravi Urban Development Authority, hosted a session on addressing air pollution in Punjab, particularly smog. Dr. Imran Hamid Sheikh, DG of EPA Punjab, discussed key initiatives such as the Smog Action Plan, the Green Punjab App, and the Smog Helpline. The event also highlighted the Climate Resilient Punjab Vision and Action Plan 2024, which prioritizes renewable energy, energy efficiency, and sustainable development in the region. Abid Suleri from SDPI stressed the need for inter-provincial collaboration on climate issues



6.3. Weaving Voices, Weaving Change: The Role of the Youth in Rewriting Climate Change

An event organized by MoCC&EC and the Climate Vulnerable Forum – Vulnerable 20 (CVF-V20) focused on empowering youth to engage in climate action. The CVF Youth Fellowship Programme was highlighted as a tool for enabling youth leaders to influence international climate policy. Speakers like Romina Khurshid Alam emphasized the crucial role of youth in shaping climate solutions, particularly through leadership in innovative, technology-driven climate action.

6.4. Elevating Meaningful Youth Engagement for Climate Action– Complementing the Efforts for Building Resilient Societies

In partnership with UN Women Pakistan, NUST, and NDRMF, MoCC&EC hosted an event that stressed the importance of youth leadership in climate action. Panel discussions included topics on climate equity, loss and damage, and the energy transition. Faisal Amin Gandapur, Advisor to the Chief Minister of Khyber Pakhtunkhwa, emphasized the need for government support to enable youth to actively contribute to climate solutions.

6.5. Putting Young People at the Core of Climate Investment; Green Skills; What do young people need?

This event, co-hosted by MoCC&EC and UNICEF, focused on providing young people with the necessary green skills to adapt to climate change. Discussions centered around the need for innovative education and green entrepreneurship to equip youth for jobs in the green economy. Speakers highlighted the disconnect between market demands for green skills and the current education system, urging investments in skills development to enable youth to seize climate-resilient opportunities.

6.6. Showcasing Young Climate Leaders and their Achievements

An event organized by MoCC&EC and the British Council spotlighted the achievements of young climate leaders. Panelists such as Sadia Rahman and Aisha Akram discussed the significant role youth can play in climate action. They emphasized the importance of equipping young people with the tools to lead and advocate for climate justice, sustainability, and policy innovation.

These events underscore Pakistan's leadership in climate action, focusing on inclusivity, youth engagement, and innovative solutions for sustainable development and resilience. The emphasis on carbon markets, disaster risk financing, and nature-based solutions positions the country as a key player in the global fight against climate change

7. 19th NOVEMBER 2024

Pakistan hosted a series of impactful events at the COP29 Pavilion on the 19th November as well, focusing on climate adaptation, sustainable agriculture, water management, and green shipping, with prominent discussions around community-driven approaches and technological innovation.

7.1. One Year on Adaptation and Restoration in Action

Pakistan's Living Indus Program, aimed at ecosystem restoration and climate resilience, was showcased. The event emphasized sustainable agriculture, water management, and community-driven adaptation. Key speakers included representatives from UNEP, FAO, and UNICEF, discussing the importance of global partnerships and the scalability of the Living Indus model.



7.2. Recharge Pakistan as Life to Indus

Recharge Pakistan as Life to Indus^[1]^[SEP] In collaboration with WWF, Pakistan highlighted its ecosystem-based flood resilience project, "Recharge Pakistan," a \$77 million initiative funded by the Green Climate Fund. This project integrates flood risk management with water storage and green infrastructure, benefiting millions in the Indus River Basin. Hammad Naqi Khan presented the Recharge Pakistan Project, aiming to build flood resilience through water storage and green infrastructure. Manuel Pulgar-Vidal noted that this project reflects the global shift toward climate resilience, with local community involvement being key to its success. Kristen Sarri of USAID stressed the need for innovative water management solutions to address Pakistan's vulnerability to floods, with efforts focused on restoring ecosystems and enhancing resilience through the Recharge Pakistan initiative.



7.3. Towards More Resilient Food Systems: Sustainable Food Systems, Supply Chains, and Nutritious Food

The event "Towards More Resilient Food Systems: Sustainable Food Systems, Supply Chains, and Nutritious Food" was hosted at the Pakistan Pavilion on November 19, 2024, by the Ministry of Climate Change & Environmental Coordination in collaboration with NDRMF and SDPI. The panel discussion focused on Pakistan's challenges and solutions for building climate-resilient food systems.

Key speakers included Mr. Naseem ur Rehman, Advisor to CM Balochistan on Environment & Climate Change Bilal Azhar Kayani (Member of the National Assembly), Mr. Nadeem ur Rehman, Secretary Environment and Climate Change Department, Balochistan, Dr. Saul Morris (GAIN), Dr. Abid Suleri (SDPI), Bilal Anwar (CEO, NDRMF), and others. Dr. Suleri emphasized the importance of resilient food systems in Pakistan's climate strategies, while Nadeem ur Rehman discussed Balochistan's agricultural potential and climate vulnerability. Bilal Anwar highlighted malnutrition and the need for integrated water and food management.

Dr. Morris stressed improving nutrition in vulnerable populations, and Dr. Minhaj Khokhar proposed sustainable farming practices. Dr. Khalid Mahmood emphasized regenerative agriculture, particularly for Balochistan, and PepsiCo's representative discussed their work with local farmers on sustainable practices. Mr. Naseem ur Rehman Maulakhail concluded by emphasizing Balochistan's vulnerability and its commitment to climate action, with COP29 playing a key role in raising awareness.

7.4. Development and Release of Cotton & Other Crops Mutant Varieties Resilient to Climatic Conditions Developed through Mutation Breeding

Development and Release of Cotton & Other Crops Mutant Varieties^[1]^[SEP] The Pakistan Atomic Energy Commission presented its achievements in developing drought-tolerant, disease-resistant crop varieties using mutation breeding, contributing to enhanced food security and sustainable agriculture.

The discussion focused on how nuclear and innovative technologies have been used to develop climate-resilient crop varieties, enhancing food security in Pakistan. Dr. Sajjad Haidar highlighted PAEC's success in mutation breeding, resulting in drought-tolerant, disease-resistant, and high-yielding varieties of cotton, pulses, rice, wheat, and oilseeds. He noted that 40% of Pakistan's cotton production now comes from these new varieties, which are more adaptable to changing weather patterns.

Dr. Khalid Mahmood emphasized the growth of organic cotton in Balochistan, where PAEC's mutant varieties cover 80% of the organic cotton area. Dr. Sarah Safdar discussed the impact of climate change on Pakistan's agriculture and the role of cotton in the economy, contributing significantly to GDP and exports. The panel concluded that nuclear and advanced agricultural technologies can help build resilient food systems, addressing hunger, malnutrition, and environmental challenges.

7.5. Clean Water Ahead: A Pakistani Success

The event "Clean Water Ahead: A Pakistani Success" was organized by the Ministry of Climate Change & Environmental Coordination (MoCC&EC) and KOICA on November 19, 2024, at the Pakistan Pavilion. Key attendees included Mr. Chang Won Sam, President of KOICA, and Ms. Romina Khurshid Alam, Coordinator to the Prime Minister on Climate Change.

The event highlighted the KOICA project's success in improving water quality infrastructure, training, and monitoring mechanisms in Pakistan, benefiting thousands of people. Mr. Taejin Jeon, Deputy Director of the KOICA Pakistan Office, presented the initiative, emphasizing its alignment with COP29 and its potential for global replication.

Ms. Alam addressed the global water quality challenges exacerbated by climate change, stressing the need for international cooperation to address issues like contamination and declining water availability, especially in the global south. She noted that Pakistan, as one of the most water-stressed countries, faces significant challenges due to climate change, inefficient water management, and agricultural water use. The initiative aims to provide sustainable solutions to revitalize water systems and improve resilience.



7.6. Pakistan's Transition to Green Shipping—Opportunities and Challenges

The event was hosted on 19 November 2024 by the National Institute of Maritime Affairs (NIMA) in collaboration with the Karachi Port Trust (KPT) at Pakistan Pavilion. A panel discussion was held during the event and the panelists included Mr. Camille Bourgeon; technical officer climate action and clean air at IMO, Mr. Marek Harsdorff; technical officer at social justice team ILO, Vice Admiral (Retd) Ahmed Saeed, President NIMA, Cdre (Retd) Raheel Masood, Project Director NIMA and Mr Muhammad Nadeem, Marine Pollution Control Department KPT, Pakistan.

The event highlighted the significance of transitioning to Green Shipping practices in the pursuit of Paris agreement goals. The speakers focused on Pakistan's commitments to compliance with UN and IMO regulations as a responsible nation. The challenges and opportunities of green transition in Pakistan (including green ship recycling) were highlighted.

Mr. Camille Bourgeon from IMO stressed the need for ratification of MARPOL annex VI for Pakistan, in order to fully benefit from technical assistance programmes of IMO. ILO representative emphasized ILO's commitments to a just transition in the maritime sector. The event served to project the potential and challenges of Pakistan's shipping sector in transitioning towards green practices at the international arena.

7.7. Fostering Partnerships - Faith Leaders and the Power of Social & Behavioral Change

The event "Fostering Partnerships - Faith Leaders and the Power of Social & Behavioral Change" was organized by the Pak Mission Society on November 19, 2024, at the Pakistan Pavilion, focusing on the role of faith leaders in climate action and social change. Ms. Romina Khurshid Alam, Coordinator to the Prime Minister on Climate Change, emphasized the transformative role faith leaders can play in shaping attitudes and behaviors towards environmental sustainability.

The panel featured experts, including Mr. Ulrich Nitschke, Senator Samina Mumtaz Zehri, Mr. Qamar Iqbal, Prof. Dr. Sarah Safdar, and Mr. Akram Yasin. Discussions highlighted the moral influence of faith leaders in promoting climate-conscious behaviors, the need for inclusive policies recognizing faith-based organizations, and the role of the ACE framework in mobilizing communities. Case studies demonstrated successful partnerships between faith leaders and NGOs, focusing on community-driven actions like women's education and climate resilience.



The event concluded that faith leaders are key to fostering sustainable behaviors and should be included in policymaking to enhance climate adaptation and mitigation efforts.

8. 20th NOVEMBER 2024

On 20th November 2024, Pakistan hosted several significant events at its Pavilion, attended by representatives from various countries and international organizations. These events included the Global Shield Event, which focused on global climate resilience strategies, and the Launch of the Green Tech Hub, aimed at fostering innovation in sustainable technologies. Pakistan also showcased its role as an Innovator in Green Technologies, highlighting the country's advancements in environmental solutions. Additionally, the event Climate-Smart Nitrogen: Advancing Sustainable Solutions for Green Growth discussed sustainable agricultural practices, while Locally Led Adaptation: Climate Finance for Humanitarian Assistance emphasized the importance of community-driven climate adaptation. The day also featured discussions on Commitments on Climate Finance to Protect Children, focusing on building climate resilience in health, nutrition, and education.

8.1. Official Handover of Pakistan's CDRFI Request for Support to Global Shield

The Official Handover of Pakistan's CDRFI Request for Support to Global Shield event was held on 19th November 2024 at the Pakistan Pavilion, organized by the Ministry of Climate Change & Environmental Coordination (MoCC&EC), UNDP, and Global Shield. The event, attended by key international experts and policymakers, highlighted Pakistan's commitment to enhancing financial protection against climate-induced disasters. Pakistan, ranked as the fifth most vulnerable country to climate change, has completed an extensive in-country process to identify gaps in disaster risk finance and insurance, with proposals from national, provincial governments, and the private sector contributing to the formal request for Global Shield support.



8.2. Launch of Pakistan's Green Technology Hub

The Launch of Pakistan's Green Technology Hub (G-TH), held at COP29, marked a significant milestone in the nation's commitment to sustainability and innovation. Organized by Ignite – Ministry of IT & Telecom, MoCC&EC, and NUST, alongside founding partners such as Acumen, Ahya, PakLaunch, Sarmayacar, and Zayn VC, the event highlighted G-TH's role in fostering green entrepreneurship and climate-smart solutions. The hub aims to drive economic growth, create jobs, and promote environmental stewardship by positioning Pakistan as a global leader in green technology.



The event featured the announcement of the winners from an open call for GreenTech and CleanTech startups, which attracted 120 applications. After a rigorous evaluation, Concept Loop, EcoEdge AI, and SAWiE Ecosys emerged as the top three finalists, each showcasing transformative solutions in circular economy, energy efficiency, and sustainable agriculture. These startups were given the opportunity to present their solutions on an international stage at COP29 in Baku, further elevating Pakistan's role in global climate resilience. The event underscored the importance of continuing to support green innovation through expanded outreach, long-term funding mechanisms, and policy advocacy for sustainable growth.

8.3. Showcasing Pakistan as an Innovator in Green Technologies-- NUST

The session at COP29 highlighted the country's advancements in sustainable solutions addressing critical environmental challenges. The session, which focused on renewable energy, smart agriculture, eco-friendly construction, and waste-to-energy conversion, demonstrated Pakistan's commitment to sustainable development. Esteemed panelists shared dynamic presentations on topics such as energy transition, AI solutions for urban heat mapping, renewable energy systems, and IoT integration in agriculture. Dr. Rabia Liaquat emphasized the role of universities in energy transition, Dr. Salman Atif presented AI-driven urban heat mapping solutions, Dr. Majid Ali discussed innovations in renewable energy, and Dr. Rafia Mumtaz highlighted the potential of IoT in agriculture. Moderated by Mr. Zia ur Rehman, Head of Sustainability at NUST, the session called for operationalizing the Green Technology Hub (GTH) to foster innovation and support sustainable projects. The Additional Secretary of MoCC&EC, Mr. Zulfiqar Younas, commended the efforts of NUST and the panelists in positioning Pakistan as a leader in green technologies. The session underscored the importance of collaboration between academia, industry, and government to address environmental challenges, paving the way for future partnerships and projects that will contribute to Pakistan's sustainable development.

8.4. Climate-Smart Nitrogen: Advancing Sustainable Solutions for Green Growth

On November 20, 2024, the Ministry of Climate Change and Environmental Coordination, Government of Pakistan, hosted a high-level event titled "Sustainable Nitrogen Management: Collaborative Solutions for Climate Change, Environment, and Food Security" at the Pakistan Pavilion, in collaboration with INMS, INI, SANH, CIWF, UNEP, and UAF. The session emphasized the pivotal role of nitrogen in addressing global environmental challenges, climate change, and food security. Key panelists, including Ms. Romina

Khurshid Alam, Coordinator to the Prime Minister on Climate Change, and international experts from Japan, Romania, and UNEP, discussed the environmental consequences of inefficient nitrogen use, including greenhouse gas emissions and biodiversity loss. Ms. Alam highlighted the recent Global Nitrous



Oxide (N₂O) Assessment launched at COP29, which calls for coordinated global efforts to reduce nitrogen-

related emissions. The event also featured presentations on sustainable nitrogen management solutions. Prof. Mark Sutton and Dr. Tariq Aziz shared findings from the Global Nitrous Oxide Assessment and the upcoming International Nitrogen Assessment.

8.5. Empowering the Communities: The Case for Locally Led Adaptation in Climate Resilience

The session "Empowering the Communities: The Case for Locally Led Adaptation in Climate Resilience," which underscored the critical role of community-driven approaches in addressing climate change. The event, featuring key speakers from humanitarian organizations, explored how locally led adaptation strategies can mitigate climate impacts,



enhance sustainability, and foster resilience in vulnerable communities. A keynote by Sardar Shahid Ahmed Laghari, Chairman of the Pakistan Red Crescent Society, highlighted the role of local capacities in disaster response and recovery, particularly in the wake of the 2022 monsoon floods. The session included a panel discussion with distinguished experts from the Red Cross and other organizations, focusing on best practices in local adaptation strategies. Panelists shared insights on integrating local knowledge into climate resilience efforts and stressed the importance of community engagement.

8.6. Commitments on climate finance to protect children by creating climate resilience on health, nutrition and education

The event also shed light on the critical need for increased collaboration between various stakeholders, including government entities, humanitarian organizations, and international partners, to protect children from the growing impacts of climate change. Ms. Martina Bihari Duffner from Save the Children International Europe emphasized the organization's contributions towards Pakistan, particularly in mobilizing resources to protect children's health, education, and nutrition in the face of climate challenges. The discussion also



reinforced the call for greater investments in climate resilience initiatives that prioritize children, particularly those in vulnerable regions, to ensure their well-being and future. This session highlighted the vital role of children in shaping the future of climate resilience, ensuring that their voices are heard and their needs are integrated into long-term climate solutions.

9. 21st NOVEMBER 2024

On 21th November 2024, Pakistan hosted several significant events at its Pavilion, attended by representatives from various countries and international organizations. These events included a gender focused event by UN-Women focusing on NDCs, A roundtable on SMOG an expanding Regional disaster containing all regional actors, An event by International Water Management Institute on Transforming Pakistan's Future: Pathways to Water, Food, and Energy Security. Government of Gilgit Baltistan also held an event on the National Parks of GB. Whereas the Government of KPK also showcased their afforestation programme on the day. Oxford Policy Management Ltd. ended the events by showcasing KPK's Climate Health Adaptation Plan which they helped develop.

9.1. Importance of Gender Mainstreaming in Nationally Determined Contributions: Identifying Gaps, Innovative and Effective Measures, Sharing Success

An event by Govt. of KPK, UN-Women & IUCN, entitled "Importance of Gender Mainstreaming in Nationally Determined Contributions: Identifying Gaps, Innovative and Effective Measures, Sharing Success," was held on 21st November 2024. It emphasized the critical role of integrating gender dynamics into climate action to enhance equity and effectiveness, particularly in Pakistan's context. Panelists shared insights into gender-sensitive climate strategies, with Ms. Maricor Muzones from GGGI noting Pakistan's recognition of gender-sensitive programming in its NDC but identifying gaps in implementation. Ms. Fauzia Bilqis Mlaik of IUCN Pakistan stressed aligning interventions with Pakistan's Climate



Change Gender Action Plan (CCGAP) to promote inclusivity. Maryum Majidova from the COP29 organizing committee advocated for policies enhancing women's access to resources and decision-making to improve resilience. Zuhra Nigar of KP's Forest Department underscored how addressing gender dimensions has enriched initiatives like the Billion Tree Tsunami. Concluding the discussion, Secretary MoCC&EC Ms. Aisha Humaira Chaudhary lauded Pakistan's progress in mainstreaming gender, highlighting the CCGAP's role in fostering inclusive policy dialogues, capacity building, and women-focused pilot projects, ensuring gender equality as a core principle in climate resilience efforts.

9.2. Roundtable on Climate Diplomacy: SMOG an expanding Regional disaster

The discussion, moderated by Mr. Sanjay Vashisht from Climate Action Network South Asia (CANSA), highlighted the alarming air pollution crisis in Delhi, where the Air Quality Index (AQI) has reached hazardous levels of 500. The city is engulfed in smog, with a pungent smell and poor visibility, prompting many residents to purchase air purifiers or temporarily relocate. In response, the government has implemented measures such as school closures, online classes, and fines for non-compliance with pollution control standards under the Graded Response Action Plan (GRAP). The Supreme Court has taken notice, and farmers are being penalized for crop burning, a significant contributor to the problem. Experts compared the situation to a public health emergency akin to COVID-19, emphasizing the need for regional cooperation and sustainable solutions. Ms. Romina Khurshid Alam (Coordinator to Prime Minister on

Climate Change) underscored air pollution as a human rights issue and called for collective efforts, while Dr. Abid Suleri (Executive Director SDPI and Member International Advisory Committee of COP29) advocated for a South Asian "Baku Plan of Action" to address transboundary pollution and protect food security.

Participants from various countries shared insights into localized challenges and solutions. Mr. Shamsuddoha from Bangladesh, In Dhaka, air pollution stems from transportation, brick kilns, and biomass cooking, while Nepal faces year-round issues due to forest fires and urban challenges. Pravin emphasized urban resilience and community-led campaigns like



"MaskMandu," which successfully pressured the government to install air quality monitors. Harjeet Singh from Fossil Fuel Treaty stressed the urgency of systematic, proactive measures, including transitioning industries to cleaner fuels and promoting public transport. Ms. Maryam Shabbir a Ph.D. Scholar from USA added the need for granular level data availability for better policy estimates. Meanwhile, Sadia Satti highlighted the gendered impacts of air pollution, urging the inclusion of women in climate policies. The session concluded with a call for a coordinated regional approach, data sharing, and strengthened climate diplomacy to tackle the shared challenge of smog and its multifaceted impacts.

9.3. Uniting Conservation, Community, and Tourism for the Future of Gilgit-Baltistan's National Parks

On the 21st the Government of Gilgit Baltistan, in collaboration with the Climate Hub coordinated an event entitled "Uniting Conservation, Community, and Tourism for the Future of Gilgit-Baltistan's National Parks," at the Pakistan Pavilion. This event brought together national and international experts to emphasize the critical intersection of conservation, sustainable tourism, and community engagement in Gilgit-Baltistan (GB). The session highlighted the region's immense ecological significance, ongoing conservation efforts, and sustainable development potential. The session underscored the Forum's strategic role in driving forward sustainable development agendas, not only in GB but also at a national level, aligning with Pakistan's broader climate and biodiversity goals.

9.4. Upscaling of Green Pakistan Programme

The largest land restoration and conservation initiative of the Government of Pakistan, "Upscaling of Green Pakistan Programme," was presented as a "Global Success Story" in a discussion featuring Mr. Sandeep Chamling Rai, Global Expert on Adaptation-Nepal; Pragyam Raj Pokhrel, Senior Programme Officer, IUCN-Washington; Shahid Zaman, Secretary, Forest, Wildlife and Climate Change, KP; Mahmood Cheema, Country Representative, IUCN-Pakistan; and Arif Goheer, Executive Director, GCISC, with Faiz Ali Khan, National Director, Upscaling Green Pakistan Programme, serving as moderator. The event focused on Pakistan's efforts to combat the loss of biodiversity and address the dependency of local populations

on forestry resources by enhancing natural capital through the revival of forestry and wildlife resources. The panelists discussed the country's vulnerability to climate change despite its minimal contribution to global warming and highlighted the government's commitment to increasing green cover through the plantation of 10 billion trees, facilitating carbon financing mechanisms, creating 1.42 million green jobs (man-months), and establishing 109 protected areas. The progress of planting 2.321 billion trees and the program's role in fostering biodiversity conservation and green job creation were commended, with calls for greater collaboration among governments, NGOs, conservation agencies, and regional partnerships to further scale this flagship initiative.



9.5. Khyber Pakhtunkhwa's Green Pathways

Government of Khyber Pakhtunkhwa (KP), Pakistan, showcased its innovative climate resilience strategies and ambitious carbon market plans during a high-profile side event at COP29, held at the Pakistan Pavilion in Baku, Azerbaijan. Additional Chief Secretary Ikramullah Khan opened the event with a presentation detailing KP's acute climate vulnerabilities, including frequent floods, landslides, and deforestation, while emphasizing its potential to lead in carbon sequestration through innovative projects and a robust climate finance pipeline. Junaid Dyar, Project Director for, highlighted the project's achievements in ecosystem restoration, biodiversity enhancement, and carbon credit generation, positioning KP as a regional leader in climate adaptation. A panel discussion, moderated by Hasaan Khawar, Team Leader for the FCDO-funded SEED Programme, included key figures such as Shahid Zaman, Secretary Forest and Climate Change, who discussed leveraging KP's forest base for carbon markets; Nick Haslam, who outlined strategies to secure global climate financing; and Kashmali Khan, who underscored the importance of international collaborations. Finance Advisor Muzammil Aslam emphasized the economic potential of climate initiatives, projecting the Ten Billion Tree Tsunami's creation of 10 million jobs across Pakistan and highlighting KP's success with public-private partnerships in renewable energy, eco-tourism, and afforestation. Concluding the event, Faisal Amin Khan from the Chief Minister's Office honored forest workers lost to forest fires and reaffirmed KP's commitment to climate resilience, announcing plans to present detailed results of the Ten Billion Tree Tsunami next year. The event spotlighted KP's leadership



in aligning local efforts with global climate goals, positioning the province as a model for subnational climate governance, and received widespread commendation for its forward-thinking initiatives.

9.6. Climate Health Adaptation Plan KP

The events at the Pakistan Pavilion ended with an unveiling of a Climate Health Vulnerability Assessment for Khyber Pakhtunkhwa study was presented at the. The presentation was delivered by Mike Wiggins, Advisor for the Climate Health Vulnerability Technical Assistance. Facilitated by Chief IDS P&D, Dr Ehtisham ul Haq, the session featured insightful exchanges, with Mike Wiggins highlighting key findings from the CHVA and a lively discussion about the implications for building climate-resilient health systems in the region. While speaking at the event, Dr. Ehtisham emphasized the importance of integrating all initiatives and themes related to climate health governance. He highlighted the need to end verticalization, establish a climate financing hub, and strengthen climate governance systems.

