

Driving Change: **INDUS CONSORTIUM'S PATH TO A SUSTAINABLE FUTURE**

2022 - 2024



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Message by Chairman



Dear Friends,

It is with great deep sense of responsibility that I present to you the annual report of Indus Consortium for the years 2022 to 2024. These three years have been transformative, marked by challenges, resilience, and groundbreaking initiatives that align with our vision of fostering sustainable and inclusive development.

Our work in water policy has been equally impactful. Collaborating with growers, water sector stakeholders, and academic institutions, Indus Consortium played a pivotal role in shaping Sindh's new water policy. In the energy sector, Indus Consortium has emerged as a front-runner in promoting a Just Energy Transition. Our ground level initiatives has reached global platforms such as the World Bank Annual and Spring Meetings, ADB Annual Meetings, and COP conferences. These forums have amplified community voices and prioritized local concerns in energy transition dialogues.

As we look back on these years, I am filled with gratitude for the dedication of our team, the trust of our partners, and the resilience of the communities we serve. Together, we have turned challenges into opportunities and laid the groundwork for a more sustainable and equitable future.

Let us continue this journey with the same passion and commitment, striving to create a brighter tomorrow for all.

Liaqat Ali,
Chairman Indus Consortium

Message by CEO



I am pleased to share the annual report of Indus Consortium for the years 2022 to 2024. These years were challenging, particularly due to the catastrophic flood of 2022, which remains one of the worst in Pakistan's recent history.

During this critical time, Indus Consortium, with support from WFP, Oxfam in Pakistan, and partners like Oil Change International, NGO Forum on ADB, Clean Bangladesh, and FM-100, provided urgent relief across 10 flood-affected districts in Sindh, Punjab, and Balochistan. In Sindh, the Consortium also documented women's protection stories from five districts and developed Pakistan's first Non-Economic Loss and Damage (NELD) framework, addressing displacement, ecosystem loss, mental health, and fatalities. This was achieved through community engagement, FGDs, interviews, and stakeholder workshops.

Indus Consortium was recognized by the Sindh Irrigation Department for its role in shaping the province's new water policy by mobilizing growers and engaging key stakeholders like SIDA, PIDA, and universities to ensure inclusion of small, tail-end, and women farmers.

Over the past three years, the Consortium has also led pioneering work in finance tracking within the energy sector, monitoring IFI and corporate gas investments, as well as the role of local banks, while building CSO capacity and organizing the GROW Green Network to advocate for a just, community-driven energy transition in Pakistan.

From 2022 to 2024, Indus Consortium made transformative strides in disaster relief, policy development, and energy transition. Under its Just Energy Transition initiative, it pioneered Scope 3 emissions calculations in the automotive sector and amplified community voices in regional and global forums. In collaboration with IBA, NED, and NUST, it produced research guiding energy policy and advocacy. Its increased media engagement—through talk shows, publications, and journalist training—broadened public awareness of IFI impacts and community concerns. These efforts reflect Indus Consortium's commitment to resilience, sustainability, and inclusive development.

Hussain Jarwar,
CEO, Indus Consortium

Chapter 1: **Building Resilience**

1.1. Section 1: Indus Consortium: A Year of Resilience

Influencing Initiative in Sindh: Gender-Inclusive Disaster Risk Management

Project Name:	Influencing on Gender-Inclusive Disaster Risk Management
Duration:	Six months
Supported by:	Oxfam in Pakistan
Implementing Partner:	Indus Consortium

The Gender-Inclusive Disaster Risk Management initiative, spearheaded by the Indus Consortium, emerged as a transformative six-month project addressing the vulnerabilities of women in post-disaster recovery. With Oxfam in Pakistan's support, this initiative aimed to promote gender-responsive disaster recovery, emphasizing enhanced gender equality and empowerment through innovative approaches to building back better.

1.1.1. Objective

The overarching goal was to influence gender-inclusive disaster risk management and safeguard women's rights by the end of 2023.

1.1.2. Key Activities and Stakeholders

Activities:

- **Case Studies Development** – Ten in-depth case studies were conducted in districts like Sukkur, Ghotki, Dadu, and Sanghar to highlight gender-specific challenges.
- **Women's Assemblies** – District and provincial assemblies provided platforms for over 455 women to share their experiences and recommendations.
- **Academic and Youth Engagement** – Universities and youth groups contributed innovative solutions to disaster risk management.
- **Media Engagement** – Strategic media collaborations amplified women's voices.

Stakeholders:

- **Provincial Disaster Management Authority (PDMA) Sindh:** A coordination meeting with Mr. Imdad Hussain, Director of Operations, introduced project activities and discussed disaster management strategies.
- **Sindh Commission on the Status of Women (SCSW):** Consultative sessions with Chairperson Ms. Nuzhat Shirin provided valuable insights into women's challenges during floods, emphasizing the need for essential supplies and financial resources.
- **Women Development Department (WDD)**
- **Ministry of Climate Change (MoCC)**

1.1.3. Key Highlights

■ Case Studies & Focus Group Discussions (FGDs)

Case studies captured women's resilience and challenges, while FGDs provided critical insights into gender-based violence, inadequate relief efforts, and livelihood struggles. Participants emphasized inclusive approaches and safeguarding mechanisms for women. These discussions underscored the need for inclusive disaster management frameworks.

■ Women's Assemblies: From District to Province

Five district assemblies were held in Sukkur, Ghotki, Dadu, Sanghar, and Badin, culminating in a Provincial Women's Assembly on October 24, 2023, in Karachi. Key policymakers and stakeholders participated, including:

- **Ms. Rana Hussain, Caretaker Education Minister:** Highlighted integrating disaster risk reduction and life skills education into the K-12 curriculum to empower young girls and women.
- **Senator Ms. Khalida Sikandar Mandhro:** Emphasized early warning systems and improved government preparedness.
- **Mr. Imdad Hussain, Director of Operations at PDMA Sindh:** Addressed significant losses during the 2022 floods and highlighted government responses.
- **Ms. Nuzhat Shirin, Chairperson of SCSW:** Shared firsthand accounts of women's struggles, particularly those of pregnant women in tent cities.
- Mr. Masroor Shahwani (SIDA) and Dr. Raza Ali Khan (NED University) added valuable perspectives.
- Art Competition:

Youth voices were celebrated through an art competition involving:

- Sindh University, Jamshoro: First prize for best painting.
- NED University, Karachi: Second prize.
- Agriculture University, Tando Jam: Third prize.

These efforts showcased creative solutions for raising awareness about flood-affected communities among youth.



Caretaker Education Minister Sindh, Ms. Rana Hussain, receives a Charter of Demands on women's protection from a flood-affected woman.



Women District Assembly, Badin

1.1.4. Achievements

■ Policy Advocacy Through the Sindh Charter of Demands:

- A collaborative document underscoring the urgent need for gender-responsive disaster management.
- Advocated for early warning systems, safeguarding measures, and inclusive policy frameworks.

■ Women Assemblies:

- Engaged over 450 women, amplifying grassroots voices to provincial levels.
- Garnered significant media attention, driving conversations on safeguarding and protection.

■ Media Collaboration:

- Journalists visited flood-affected areas with Ms. Erum Noor, Editor of The News You Magazine, to capture women's stories.
- Published impactful stories in leading outlets like The News and Daily Times, spotlighting women's struggles in flood-hit areas.

■ TV Talk Shows:

- Aired seven influential talk shows across major Sindhi television networks including KTN, Sindh TV, GTV, Dharti TV, Metro TV, Sindh TV, and Awaz TV. These programs ignited discussions on women's safety, health, and rights during disasters.

■ Signature Campaign:

- Collected 620 endorsements from diverse stakeholders, including senators, MPAs, journalists, women protection cells, bar councils, relevant Government Departments like Women Development Department, Sindh Commission on the Status of Women and civil society, symbolizing a collective commitment to change.

■ Launch "Surviving the Surge: Policy Solutions for a Better Tomorrow!"

- Featuring ten case studies, this seminal document addressed gender dynamics in disaster management.

■ Youth Engagement:

- Universities participated in art competitions and academic debates, integrating disaster risk reduction into academic narratives.

1.1.5. Stories of Change

- In the Sukkur women district assembly, Mukhtar Bibi's resilience after losing her son and husband inspired a renewed focus on mental health support.
- In Sanghar, Sabhagi's story of forced marriage in displacement camps highlighted the urgent need for community awareness about safe spaces.
- In Badin, firsthand accounts of roadside childbirths during floods catalyzed efforts to include reproductive health in disaster response frameworks.
- In Ghotki, Hakim Zadi, a community activist, shared her experience of devastating floods that forced families outdoors after losing their homes. She highlighted inadequate relief efforts, especially in addressing family planning and medication needs.
- In Dadu, Haseena recounted the harrowing loss of belongings, homes, and newborn lives during the 2022 floods, highlighting how delayed government aid disproportionately favored roadside communities, leaving her village isolated and unsupported.

1.1.6. Conclusion: A Model for Inclusive Disaster Recovery

The Gender-Inclusive Disaster Risk Management project stands as a beacon of collaborative action, amplifying marginalized voices and pioneering gender-responsive solutions. By linking grassroots advocacy with policy influence, it has not only addressed immediate recovery needs but also laid the groundwork for long-term resilience and inclusivity.

This initiative reaffirms the Indus Consortium's commitment to driving systemic change through innovation, collaboration, and unwavering focus on gender equality.



District Women Assembly, Sukkur

RESILIENCE AMIDST ADVERSITY: WOMEN'S VOICES FROM THE 2022 FLOODS

Flood-affected women shared profound challenges and aspirations during FGDs and KIIs, highlighting:



Safety and Protection:

The urgent need for safeguarding women and girls from exploitation, violence, and abuse, with calls for safe spaces and community-based protection measures.



Gender-Based Violence:

Alarming accounts of domestic violence, harassment, and exploitation emphasized the importance of preventive initiatives and accessible support services.



Loss and Grief:

Many recounted the devastating loss of loved ones, including spouses, children, and parents, during the disaster.



Inclusive Participation:

Advocacy for active involvement of women, marginalized groups, and persons with disabilities in planning and decision-making to ensure their needs are addressed.



Destroyed Homes and Livelihoods:

The destruction of homes left families exposed to harsh conditions, while the loss of agricultural land and crops devastated livelihoods.



Health Challenges:

Stagnant water bred diseases, increasing the prevalence of mosquito-borne illnesses and dog bites, exacerbating the health crisis.



Gaps in Relief Efforts:

Relief initiatives often overlooked women's specific needs, particularly in family planning and consistent access to medications.



Resilience and Hope:

Despite immense hardships, women exhibited extraordinary strength and determination, striving to rebuild their lives and secure a better future for their families.

1.2. Section 2: Driving Impact Amidst Crisis

The devastating floods of 2022 posed an immense challenge for communities across Pakistan, but the Indus Consortium, a humanitarian network comprising local communities and civil society organizations (CSOs), rose to the occasion with unparalleled dedication and resilience. With the collective efforts of its members, including the Laar Humanitarian and Development Program (LHDP), Doaba Foundation, and HELP Foundation, the consortium has been at the forefront of responding to emergencies such as floods, heat waves, and droughts across districts including Badin, Mirpurkhas, Dadu, Qambar Shahdadkot, and Rajanpur.

1.2.1. Key Achievements in Flood Response

■ Blanket Supplementary Feeding Program

In the aftermath of the catastrophic 2022 floods, Indus Consortium partnered with the World Food Program (WFP) to launch a comprehensive nutritional support initiative. This program directly benefitted 48,000 pregnant women, lactating mothers, and children in Shikarpur, Sindh, providing essential nutritional supplements to safeguard their health and well-being. The program not only addressed immediate nutritional needs but also emphasized the importance of protection and care during a crisis.

■ Winterization Support for Women-Headed Households

As winter descended on flood-affected communities, Indus Consortium members, with the support of Oil Change International Australia and the NGO Forum on ADB (Philippines), initiated a Winterization Drive that reached 1,000 women-headed households across 10 districts in Punjab, Sindh, and Balochistan. Each household received a comprehensive winter kit, including:

- Shawls (small and large)
- Footwear
- Quilts with covers
- Mattresses
- Bed sheets and pillows
- Sweaters, socks, warm caps, scarves, and gloves

The following districts were covered under the winterization drive in three provinces of Pakistan including Sindh, Punjab and Baluchistan;

Name of district	Name of Indus Consortium affiliates	Province
Sukkur	NARI Foundation	Sindh
Dadu	Village Shadabad	Sindh
Nawabshah	NDF	Sindh
Mirpurkhas	ARTS Foundation	Sindh
Ghotki	VDO	Sindh
Sanghar	SDF	Sindh
Jafferabad	BSDI	Baluchistan
Sohbatpur	MEHER	Baluchistan
Muzafargarh	SYCOP	Punjab
Khairpur Mirs	MRDO	Sindh

This drive was a vital lifeline for families, ensuring warmth and comfort during the harsh winter months, and providing a sense of security in a time of overwhelming loss.

■ Strengthening Early Warning Systems

In partnership with FM-100, Indus Consortium significantly enhanced the early warning systems for flood-prone communities through the distribution of radio sets. These radios served as a critical communication tool, providing affected populations with timely disaster alerts, information on relief efforts, and socio-psychological support through entertainment and community programs. With radio access, communities could stay informed and prepared,

while also finding moments of respite in the face of adversity. The following CSOs facilitated this initiative across the country:

- LHDP in Badin (Sindh)
- HELP Foundation in Rajanpur (Punjab)
- IDEA in Peshawar (KPK)
- BSDSB in Nasirabad (Balochistan)

1.2.2. Impact Across Districts and Provinces

Indus Consortium's flood response efforts were wide-reaching, covering critical districts across Sindh, Punjab, and Balochistan. From Sukkur to Khairpur Mirs in Sindh, Jafferabad in Balochistan, and Muzaffargarh in Punjab, the collective efforts of Indus Consortium affiliates ensured that thousands of vulnerable individuals received the support they desperately needed.

By working closely with local communities, government agencies, and international partners, the Indus Consortium has proven that solidarity, preparedness, and swift action can mitigate the impact of disasters and pave the way for recovery.

1.2.3. Heat Wave Relief Efforts in Dadu

To address the severe heat wave in Sindh, the Indus Consortium, in partnership with PDMA, VSO, and Oxfam Pakistan, organized a relief camp at Chheni Road Kachho Stop, Johi. This initiative provided critical support to the affected community by offering cold water to alleviate the intense heat, benefiting numerous individuals, especially children.

The camp also distributed Information, Education, and Communication (IEC) materials and conducted awareness sessions to educate residents on protective measures during extreme weather conditions. This collaborative effort highlighted the importance of community engagement in building resilience against climate challenges.

1.2.4. Conclusion

The flood response efforts of 2022 highlight the exceptional capacity and commitment of the Indus Consortium and its members in supporting vulnerable communities during times of crisis. Through integrated approaches to emergency relief, nutritional support, winterization, and early warning systems, the consortium has not only addressed immediate needs but has also strengthened long-term resilience in disaster-prone areas.

As we reflect on these achievements, it is clear that Indus Consortium's collaborative spirit and proactive interventions continue to make a lasting impact on the lives of those who need it most.

1.3. Section 3: Non-Economic Loss and Damage Framework

Building on the success of earlier phases, the Indus Consortium, in collaboration with Oxfam in Pakistan, advanced the development of the Non-Economic Loss and Damage (NELD) Framework during its second phase.



Group Photo: Validation Workshop of NELD

NELD refers to intangible or non-monetary impacts experienced by individuals, communities, or ecosystems due to natural disasters, environmental degradation, or social conflicts. Unlike economic losses, which can be quantified financially, NELD encompasses effects on well-being, quality of life, and social cohesion, which are often more challenging to measure.

1.3.1. Key Areas of Non-Economic Loss and Damage

A comprehensive review of NELD studies identified four critical areas:

1. Loss of life
2. Loss of ecosystem services
3. Physical and psychological well-being repercussions
4. Social displacement

This study examines NELD in flood-prone districts of Sindh using a mixed-method approach and proposes a disaster risk management policy framework for the Government of Sindh, Pakistan.

1.3.2. Geographical Scope

The study was conducted in the following districts:

- Qambar Shahdadkot
- Ghotki
- Dadu
- Sukkur
- Sanghar

1.3.3. Objectives

The study aimed to:

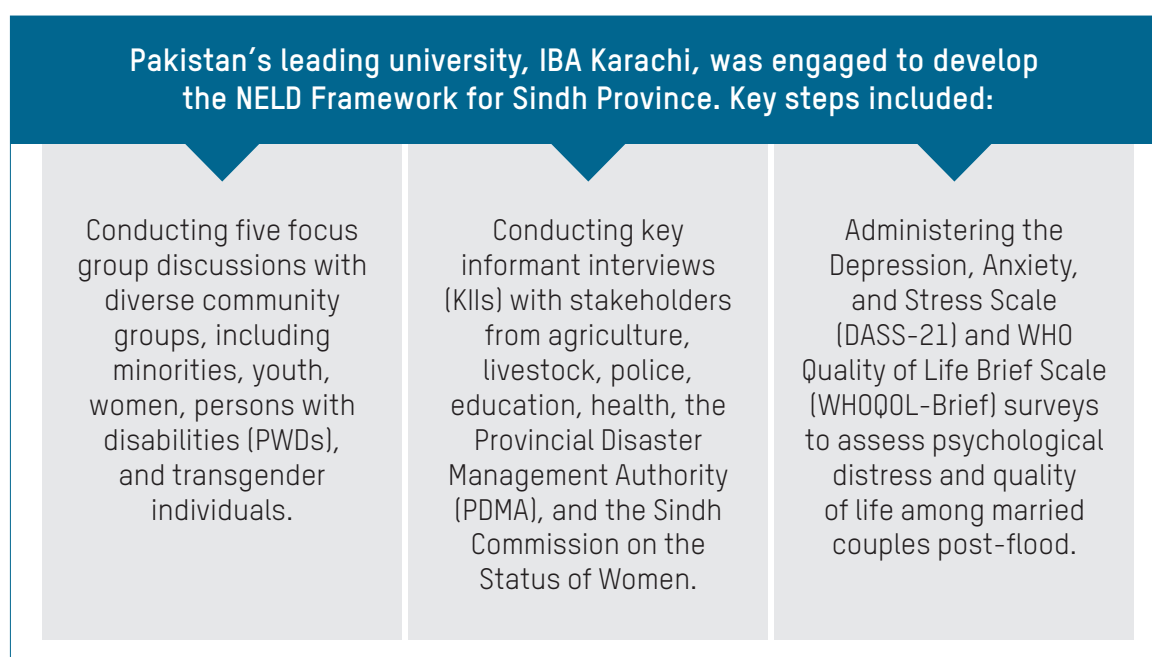
- Assess NELD resulting from loss of life, ecosystem services, psychological well-being, and social displacement caused by the 2022 floods.
- Identify socio-economic and institutional factors influencing coping mechanisms for NELD during the 2022 floods.
- Recommend a policy framework integrating NELD into provincial disaster risk management strategies, aligned with the Sendai Framework and the 2030 Sustainable Development Goals.

1.3.4. Methodology

The study employed a mixed-method approach, integrating quantitative and qualitative tools to assess the impact of the 2022 floods:

- **Quantitative Tools:** Surveys were conducted to measure psychological stress and overall well-being .
- **Qualitative Tools:** In-depth interviews and focus group discussions explored emotional, social, ecosystem, and cultural repercussions of the flood, aspects often overlooked in quantitative assessments.

1.3.5. Framework Development



1.3.6. International Women's Day Celebration

The Indus Consortium commemorated International Women's Day by honoring the resilience of flood-affected women. The event, themed "Non-Economic Loss and Damage (NELD) from the Eyes of Women," highlighted the intersection of gender and climate change and the unique challenges faced by women in flood-prone areas.



International Women's Day celebration: Dr. Shereen Mustafa, Provincial Education Secretary Sindh, presents Resilience Shields to flood-affected women

■ Key Participants:

- Women from Sukkur, Ghotki, Sanghar, Dadu, and Badin
- Academia and students from SZABIST University, NED University, and SM University
- Representatives from Civil Society Organizations (CSOs), government departments, journalists, lawyers, artists, PDMA, the Sindh Commission on the Status of Women, the Sindh Irrigation and Drainage Authority (SIDA), international donors, and the Living Indus Initiative.

■ Objectives of the Celebration:

- Raise awareness of NELD related to climate change, focusing on women's experiences in flood-affected areas.
- Facilitate dialogue among stakeholders, including government agencies, CSOs, and women leaders.
- Showcase women's resilience through case studies and personal narratives.
- Recognize women's contributions to disaster risk management and resilience-building efforts.

■ Panel Discussion:

- "Intersectionality of Gender, Climate Change, and Non-Economic Losses"

■ Moderator:

- Laila Nisar Markhiani (Anchorperson, Awaz TV)

■ Speakers:

- Ms. Nuzhat Shirin, Chairperson, Sindh Commission on the Status of Women
- Mr. Imdad Hussain Siddiqui, Director (Operations), Provincial Disaster Management Authority (PDMA)
- Ms. Shazia Nizamani, President, Sindh Women Lawyers Alliance
- Ms. Khalida Parveen, National Representative, Resource Support Hub (RSH)
- Lal Khatoon, Community Representative (PWD)

■ Session Chair:

- Dr. Shereen Mustafa, Secretary, School Education & Literacy Department

■ Key Highlights from Panelists:

- Mr. Imdad Hussain Siddiqui (PDMA): Highlighted PDMA's efforts to enhance gender-inclusive disaster response, focusing on support for vulnerable groups such as disabled individuals, pregnant women, nursing mothers, and the elderly. He emphasized measures like procuring UN-standard washrooms for disabled persons and improving future disaster responses.
- Dr. Shereen Mustafa: Discussed the education challenges during floods, including school damage and displacement of children. Mechanisms like tent schools were implemented to ensure continuity. She reported that maintenance work has restored 1,000 schools, while 5,000 schools are slated for construction following flood damage.

1.3.7. Conclusion

The NELD Framework underscores the significance of addressing intangible losses in disaster-prone regions. By integrating gender-sensitive approaches and fostering collaboration among stakeholders, the framework paves the way for resilient, inclusive disaster risk management strategies in Sindh.



International Women's Day: Mr. Imdad Hussain Siddiqui (PDMA) and Dr. Shereen Mustafa (Education Dept. Sindh) listen to the voices of flood-affected women.

Case Study:

LAL KHATOON

A Journey of Resilience and Empowerment

"I am pleased to receive this wheelchair. It's truly heartening to know that someone recognizes the significance of mobility in my life, especially as a person with disabilities. This gesture fills me with hope and gratitude," shared Lal Khatoon, a woman with disabilities who embodies resilience amidst adversity.

Lal's story came to light during the International Women's Day celebration organized by the Indus Consortium, where she bravely shared her experiences as a panelist. Recalling the devastating floods, she described facing harassment, abuse, and neglect in accessing relief services due to her disability. Despite these hardships, moments of hope emerged, such as her husband's heroic act of carrying her to safety through floodwaters.

Moved by her courage and perseverance, Chief Guest Dr. Shereen Mustafa took immediate action. Inspired by Lal's story, she contacted the Indus Consortium's CEO to arrange a wheelchair as a token of support and recognition. This swift intervention reflected the Consortium's dedication to empowering vulnerable individuals and addressing their needs.

The provision of a wheelchair symbolizes more than mobility—it represents dignity, independence, and the power of collective action in fostering resilience. Lal Khatoon's journey serves as a poignant reminder of the importance of inclusive support systems in uplifting vulnerable communities and ensuring no one is left behind.



Lal Khatoon, a flood affected woman telling her story of resilience

Case Study:

Inspiring Hope through Compassion

In Pakistan's Sanghar district, a story of resilience and compassion emerged, led by Dr. Lubna, Director of the Center for Business and Economic Research (CBER) at IBA Karachi. Witnessing the courage and determination of disabled individuals in the community, Dr. Lubna was moved to act.

Recognizing their struggles and spirit, she donated 50,000 rupees to support them, a gesture that symbolized hope and solidarity. Her commitment deepened as she pledged to contribute 10,000 rupees to each disabled person she encountered, transforming lives and fostering a brighter future.

Dr. Lubna's actions exemplify the profound impact of compassion, highlighting how generosity and purpose can inspire resilience and change in vulnerable communities.



PWD from Sanghar received well chair from philanthropist.

Chapter 2:
**Water for All: Transforming Water
Governance in Sindh**

The Indus Consortium continues to champion transformative water governance in Sindh, amplifying the voices of marginalized communities, empowering women, and fostering strategic partnerships for sustainable development.

2.1. Advancing Policy Through Empowerment and Advocacy

The Indus Consortium has played a pivotal role in equipping tail-end farmers and women in Sindh with the tools and knowledge to engage with critical legislative frameworks such as the Sindh Irrigation and Drainage Authority (SIDA) and Punjab Irrigation and Drainage Authority (PIDA) Acts. Through grassroots mobilization, capacity-building initiatives, and collaboration with academic institutions like Sindh Agriculture University Tando Jam, Arid Agriculture University Rawalpindi, COMSATS Wah, and Agriculture University Faisalabad, the Consortium has elevated water governance discourse.



Group Photo: Provincial Policy Dialogue, Sindh Water Policy

A defining achievement was the formal recognition of the Sindh Water Policy in August 2022. This milestone, driven by inputs from tail-end and women farmers, underscored the Consortium's commitment to inclusive governance and policy formulation.

Case Study: A transformative initiative was the “Improving Water Governance and Promoting Water Cooperation” project, implemented by the Indus Consortium in collaboration with Oxfam from 2014 to 2015. This project directly benefited 5,631 individuals and indirectly impacted 8,578 across 48 villages. A notable success was in Akram Wah, Badin, where strategic interventions alleviated a 15-year drought through sustainable water solutions and revitalized partnerships. The project's emphasis on mobilization, capacity building, and evidence-based research allowed the integration of stakeholder perspectives into policy frameworks, leading to the landmark approval of the Sindh Water Policy in July 2023.

2.2. Key Outcomes:

- Empowered marginalized farmers and women through legislative reforms.
- Strengthened participatory water management practices via SIDA's framework.
- Advanced grassroots inclusivity and resilience in governance.

2.3. Building Strategic Partnerships for Sustainable Impact

Collaboration with institutions such as the Living Indus Initiative (UN and Ministry of Climate Change), the Sindh Water Sector and Barrages Improvement Program (WSIP), and the Irrigation Department Punjab has bolstered water governance efforts. The active involvement of SIDA, led by Secretary of Irrigation Mr. Zarif Iqbal Khero, further amplified these initiatives. Mr. Khero's leadership in national dialogues, case study reviews, and the National Water Conference highlighted the critical importance of integrated efforts.

2.4. Key Engagements and Milestones

- **District-Level Dialogues:** Organized in partnership with SIDA, these forums provided a platform for farmers to engage directly with the Sindh Water Policy, enhancing understanding and fostering accountability.
- **Local Government Support:** Deputy Commissioner Dadu, Mr. Fayaz Hussain Rahujo, affirmed local commitment by commending the Consortium's efforts in organizing impactful sessions addressing water challenges.
- **National Policy Dialogue:** This one-day event brought together stakeholders including the Planning and Development Department of Sindh, Pakistan Agriculture & Research Council (PARC), Indus Rivers System Authority (IRSA), and SIDA. The dialogue reinforced collective support for water policy advancement.
- **Community-Centric Impact:** Tail-end and women farmers from Badin, Ghotki, Dadu, Sukkur, Rajanpur, Layyah, and Multan actively participated in dialogues, bridging communication gaps and fostering collaboration with government entities.

- Integration of Climate and DRR: The interplay of water governance, climate change, and disaster risk reduction (DRR) informed discussions on ensuring that the Sindh Water Policy addresses contemporary challenges.
- Promoting Gender-Inclusive Governance : Recognizing the indispensable role of women in water management, the Consortium's advocacy efforts led to greater inclusion of women in decision-making processes. Supported by SIDA and the Sindh Irrigation Department, this initiative is a significant step toward gender-equitable water governance.

2.5. Recommendations for Sustainable Impact

- Expand advocacy efforts with localized and accessible communication tools.
- Facilitate continuous capacity-building and technological adoption.
- Ensure sustained donor engagement for long-term community support.

The Indus Consortium remains resolute in its mission to transform water governance in Sindh, ensuring that marginalized communities and women play a central role in shaping a resilient and equitable future.

Chapter 3:
**Advancing a Just Energy Transition:
Pathways to Sustainable and Inclusive
Development**

The Indus Consortium has been at the forefront of advancing a just energy transition, equitable climate action, and corporate decarbonization in Pakistan. By promoting renewable energy adoption and reducing reliance on fossil fuels, the Consortium has engaged stakeholders across multiple levels, including grassroots communities, financiers, multilateral development banks (MDBs), and the corporate sector. Through a focus on environmental, social, and governance (ESG) principles, it has championed transparency in energy financing, sustainable corporate practices, and policy alignment with global green energy standards. Collaborations with academia, civil society organizations (CSOs), and industry leaders have enabled significant progress in research, advocacy, and community engagement, all aimed at building resilience and sustainability in Pakistan.

3.1. Research and Knowledge Sharing

The Consortium has conducted groundbreaking research in collaboration with academic institutions, contributing to evidence-based advocacy for renewable energy and corporate decarbonization:

3.1.1. Energy Finance Outlook 2023

(NED University Karachi): This study analyzed policies such as National Energy Policy (NEP) 2021, Indicative Generation Capacity Expansion Plan (IGCEP) 2022-31, Alternate Renewable Energy (ARE) Policy 2019, and Pakistan's Nationally Determined Contributions (NDCs) 2030. It assessed energy financing flows (2019-2022) and included a case study on the ADB-funded 660 MW Jamshoro Power Company Limited (JPCL) coal power plant, emphasizing integrated energy policies and responsible financing.

3.1.2. Net Metering System in Pakistan (USPCAS-E, NUST):

This research explored the financial, technological, and regulatory aspects of net metering, highlighting challenges and solutions to enhance its contribution to the national grid.

3.1.3. Corporate Energy Consumption in Pakistan (IBA Karachi):

This study examined corporate energy use and progress toward net-zero emissions, emphasizing transparency in sustainability practices with case studies from companies like Indus Motor Company and Coca-Cola Beverages Pakistan.

3.1.4. Politico-Economic Analysis of Pakistan's Gas Sector (NUST):

This research evaluated the political and economic dynamics of the gas sector, providing critical insights for advocacy and policy reforms.

3.1.5. Fossil Gas Expansion Impacts (IBA Karachi):

Scheduled for launch in January 2025, this study assesses the socio-economic and environmental impacts of fossil gas projects, advocating for renewable energy alternatives.

3.1.6. Green Transition in the Automotive Sector (FPCCI):

This study identified barriers and opportunities for decarbonizing Pakistan's automotive industry, offering actionable recommendations for sustainable growth.

3.1.7. Just Energy Transition Glossary:

Developed for the Grow Green Network (GGN), this glossary increases awareness of key concepts in energy transition debates.

3.2. Capacity Building: Grow Green Network (GGN)

The Grow Green Network (GGN), comprising 20 CSOs from Punjab and Sindh, is central to the Consortium's grassroots efforts.

- Annual Assemblies:
- In 2023, the assembly in Karachi included the launch of the Energy Finance Outlook 2023, panel discussions, exhibitions, and an exposure visit to Korangi Creek.
- In 2024, the Lahore assembly featured capacity-building sessions on IFIs' climate impact, an exposure visit to a solar-powered leather factory in Kasur, and strategic planning for renewable energy initiatives.

These assemblies enhance knowledge-sharing, foster collaboration, and align community efforts with national and global energy goals.

3.3. Engagement with Financial Institutions

3.3.1. World Bank Group (WBG)

The Consortium has actively engaged with the WBG to address energy financing, fossil fuel dependency, and the socio-economic impacts of energy projects. Key initiatives include:



CEO of Indus Consortium speaks during a panel at the World Bank Spring Meetings alongside Demetrios Papathanasiou, Global Director for Energy and Extractives at the World Bank, and Valerie Levkov, IFC's Global Industry Director for Energy, Metals, and Mining.

- The Consortium has actively contributed input on the Country Partnership Framework (CPF), critiquing the lack of meaningful community consultations in projects such as the Pakistan Affordable and Clean Energy Program (PACE-1) and the Country Climate and Development Report (CCDR).
- At the Civil Society Policy Forum (CSPF), CEO Hussain Jarwar highlighted critical gaps in governance, environmental safeguards, and Development Policy Financing (DPF). He also

addressed the increasing hydro-financing initiatives that proceed without adequate and meaningful community engagement.

- Engagements included direct dialogues with key World Bank Group (WBG) officials, including Demetrios, Global Director of the World Bank's Energy and Extractives Global Practices, and Valerie Levkov, the International Finance Corporation's (IFC) Global Industry Director for Energy, Metals, and Mining. During these discussions, the Consortium emphasized the socio-economic impacts of fossil fuel projects, particularly gas, while underscoring gaps in transparency and accountability within WBG's energy financing policies.
- The Consortium also participated in the WBG Annual Meetings 2023 in Morocco. Program Officer Izzah Batool presented case studies on an IFC-funded gas project in Ghotki, Sindh, highlighting the adverse impacts of fossil gas. Additionally, during the WBG Spring Meetings 2023, Manager of Programs Implementation, Fiza Qureshi, strongly advocated for ending fossil fuel financing.



World Bank Spring Meetings 2025

3.3.2. Asian Development Bank (ADB)

- In 2022, the ADB launched its Energy Transition Mechanism (ETM) for Pakistan, conducting collaborative sessions with CSOs as part of a pre-feasibility study. The Indus Consortium actively participated, advocating for a community-focused approach with the ADB and its consultants. Feedback on the inception and multicriteria analysis reports was submitted and translated into Urdu and Sindhi to engage Grow Green Network member organizations.
- Ms. Fiza Qureshi, Manager Program, represented the Indus Consortium at the ADB's 56th Annual Meeting in South Korea. As a panelist in a side event on ADB's Energy Transition Mechanism (ETM), organized by the NGO Forum on ADB, Indus Consortium, Clean Bangladesh, and Trend Asia and chaired by ADB Vice-President of East Asia, Southeast Asia, and the Pacific Ahmed Saeed, she highlighted Pakistan's community concerns and rejected gas as a transition fuel. The Consortium also shared CSO and community perspectives on ETM and Just Energy Transition at a seminar titled "Towards an Equitable Asia," organized by Fair Finance Asia, Oxfam in Asia, and Seoul National University Asia Center (SNUAC).

3.3.3. Asian Infrastructure Investment Bank (AIIB)

- The Consortium contributed to the review of the Project Affected People Mechanism (PPM), emphasizing community perspectives and meaningful consultations.

- Collaborated with the NGO Forum on ADB on a study titled “Examining ADB and AIIB Financing in Pakistan’s Gas Sector.”

3.4. Policy Advocacy at COP28

- The Indus Consortium has actively advocated for greater inclusivity and climate justice in international finance mechanisms. Highlighting the exclusion of CSOs from ADB’s ETM processes, the Consortium opposed gas as a transition fuel and addressed the impacts of projects like the JPCL coal power plant.
- At COP28, Program Manager Majid Bilal met with World Bank Vice President Jay Heimbach, sharing the plight of 33 million Pakistanis affected by the 2022 floods and advocating for a shift away from fossil fuels.
- The Consortium also launched the report Non-Economic Loss & Damage to Communities: A Case of Pakistan, presented to WBG leadership to emphasize climate justice and the urgent need for action.
- In a question to WBG President Ajay Banga, the Consortium reinforced the call for an immediate phase-out of fossil fuels.

These efforts underscore their commitment to amplifying community voices and ensuring a just energy transition.

3.5. Media Engagement and Community Outreach

3.5.1. National Press Panel & Journalist Training: National Press Panel & Journalist Training:

Indus Consortium, in collaboration with Big Shift Global and Green Media Initiative, organized a Climate Finance workshop under the National Press Panel initiative. The workshop focused on the role of multilateral development banks and the importance of ethical, climate-smart reporting. Veteran journalist Shahzeb Jillani led discussions on investigative journalism and the complexities of climate finance. Ms. Marj from Recourse provided insights into World Bank Group financing mechanisms, while Ali Rashid explained ESG funding requirements. Mehr Hassan from the Global Strategic Communications Council highlighted key issues such as human rights, gender equity, and debt sustainability in climate finance. Contributions from Ms. Fiza Qureshi, Izzah Batool, and Hussain Jarwar emphasized the local impacts of financing decisions on communities. As a result, the trained journalists produced impactful stories, blogs, vlogs, and TV talk shows, shedding light on fossil fuel financing case studies and MDB-funded projects in Pakistan and their effects on local communities.



Group Photo: Journalists' Training under National Press Panel on Just Energy Transition

3.5.2. Public Fora:

The Indus Consortium, with the Grow Green Network, organized public forums in 2023 and 2024 to advance renewable energy and climate resilience in Pakistan.



Public Fora

In 2023, 20 forums under “Public Participation for Renewable Energy Acceleration in Pakistan” highlighted community demands like residential solar incentives, bagasse power, circular debt solutions, and benefit-sharing models, with public support captured through a signature board.

In 2024, forums in 18 Sindh and Punjab districts focused on resilience post-climate disasters, fossil fuel phase-out, and halting LNG projects, gathering over 1,000 endorsements for policy asks like rehabilitation funds and retiring fossil fuel plants.

These initiatives united communities and amplified grassroots calls for a sustainable energy transition.

3.5.3. Fishing Communities:

Engaged Karachi's coastal communities, documenting the impacts of LNG projects. The video documentary under the title "Echoes of the Sea" screened during the World Bank Annuals.

3.6. Youth Engagement Initiatives

3.6.1. National Climate Justice Youth Film Festival 2023 & 2024

The inaugural National Climate Justice Youth Film Festival, held on August 24, 2023, at the University of the Punjab, Lahore, featured documentaries and short films from universities across Pakistan. The theme, "A Call 4 Climate Action: Fossil-Fuel Free Pakistan!", aimed to empower youth as climate advocates, with NED UET Karachi taking top honors.



National Climate Justice Youth Film Festival

A session on just energy transition during the festival led to the launch of the Climate Justice Youth Network, which includes eight universities: Sindh Agriculture University, PMAS Arid Agriculture University, NED University, Muhammad Nawaz Sharif University of Agriculture, University of Sindh, and University of the Punjab.

The second film festival was held on September 20, 2024, at Beach Luxury Hotel, Karachi, under the theme "Inequitable Financial Burdens from IFIs Lending and Debt Programs on Pakistan's Energy Consumers." The event featured a panel discussion on climate change adaptation in agriculture, with experts like Dr. Raza Ali Khan and Mr. Zulfiqar Panhwar. University of Sindh Jamshoro won first place, followed by NED University and PMAS Arid Agriculture University in second and third.

3.6.2. Pre-COP Events on Climate Justice

In 2023 and 2024, the Indus Consortium organized Pre-COP events at PMAS Arid Agriculture University, engaging students in climate education and diplomacy debates. The 2023 event, focused on COP28, addressed topics such as the Global Stocktake and the Loss & Damage Fund, with debates on "Gas as a Transition Fuel," fostering critical discussions on climate justice.

The 2024 event, ahead of COP29, centered on the divide between the Global North and South, covering issues like climate finance, loss and damage, and the inequities of climate-induced disasters. Both events empowered students to actively contribute to global climate initiatives.

3.7. Industry Engagement

3.7.1. Engagement on FSRE, Green Taxonomy, No New Coal Policy, and ESRM

In early 2023, the State Bank of Pakistan piloted the Environmental and Social Framework (ESF) to align commercial banking with Green Banking Guidelines. Indus Consortium played a key role in engaging with various banks to ensure the continuity of this process.

3.7.2. Collaborative Training for Stakeholders

In partnership with UBL's compliance department, Indus Consortium organized training sessions for all Tara partners. Led by Mr. Rashid Azeem, a certified trainer from the State Bank of Pakistan, the training focused on the Environmental and Social Risk Management (ESRM) manual, covering the 10 key indicators for assessing clients/borrowers, lending decisions, and reporting mechanisms.

3.7.3. Corporate Dialogue on Energy Consumption and Net-Zero Emissions:

A Step Toward Sustainable Business Practices

On November 15, 2023, Indus Consortium organized the corporate dialogue 'Champions of Change: A Dialogue with the Private Sector' in Karachi, launching the study "Corporate Sector Energy Consumption in Pakistan," conducted in collaboration with IBA Karachi. The event, attended by industrialists, researchers, academia, and civil society activists, emphasized the need for corporations to prioritize transparency and accountability in achieving net-zero emissions. Discussions highlighted the severe impacts of emissions on Pakistan's health, lives, and environment.

The study examined energy consumption in corporate sectors, with key findings from Indus Motor Company (IMC) and Coca-Cola Beverages Pakistan. IMC CEO, Mr. Ali Asghar Jamali, shared that Toyota's global commitment includes carbon neutrality by 2035 and net-zero emissions by 2050. He highlighted IMC's use of the country's largest solar plant in the automobile sector, with a 4.5MW energy generation capacity, and its commitment to increasing the green energy share in its energy consumption.

3.7.4. Aligning Emissions Reduction Goals: Collaborations with IMC and FPCCI

The Indus Consortium held three key meetings with the leadership of Indus Motor Company (IMC), including its CEO, to discuss strategies for reducing emissions and minimizing the automotive sector's environmental impact. These discussions focused on adopting innovative approaches to achieve emissions reduction goals. Additionally, an MoU with the Federation of Pakistan Chambers of Commerce and Industry (FPCCI) is nearing finalization, aimed at fostering industry-wide collaboration on decarbonization. This partnership will link the Consortium's initiatives with major automotive stakeholders, ensuring a collective effort toward achieving decarbonization in the sector.

3.7.5. Driving Emissions Accountability: The Consortium's Role in Automotive Industry Transformation

The Indus Consortium has played a pivotal role in raising awareness within the automotive industry about the critical need for emissions tracking and reduction. Through the establishment of a framework for calculating Scope 3 emissions, the Consortium has set a precedent for industry

leaders, providing a model to adopt and implement clean energy policies that contribute to sustainable practices across the sector.

3.8. Conclusion

The Indus Consortium's multifaceted initiatives have strengthened Pakistan's movement toward a just energy transition. By fostering research, capacity building, policy advocacy, and stakeholder engagement, the Consortium has created a robust platform for advancing renewable energy and ensuring equitable climate action.

Setting a National Benchmark: Pioneering Scope 3 Emissions Analysis in Pakistan's Automotive Industry

A significant milestone was achieved with the calculation of Scope 3 emissions for two major players in Pakistan's automotive industry: Indus Motor Company (IMC) and Sazgar Engineering Works Limited. This groundbreaking effort represents the first-ever calculation of Scope 3 emissions by any automotive company in the country, establishing a national benchmark for emissions tracking. By considering indirect emissions from the entire value chain—ranging from production and transportation to the disposal of vehicles at their end-of-life—this achievement underscores the automotive sector's considerable impact on climate change. This analysis not only sets an important precedent but also provides a framework for other companies to follow in their journey toward sustainable practices.