

# Environment and Climate Change Outlook of Pakistan



*“The earth is what we all have in common”*



## *Message from the CEO*

I feel incredibly honored to be writing this message in my capacity as the Chief Executive Officer of the Human Resource Development Network (HRDN) after having spent a significant portion of my professional tenure managing nonprofit organizations. According to my perspective, development is a step towards positive change on both a quantitative and qualitative level that initiates a society in ways that enrich its capacity to mobilize and manage resources sustainably. Growth is therefore the foundation of the Human Resource Development Network (HRDN).

There is no one-size-fits-all approach to enhancing the physical and emotional well-being of Earth's inhabitants, enhancing the outlook for ecosystems and species, enhancing our connection with nature, or creating truly sustainable companies. In its place, there are innumerable puzzle pieces. Even though it's complex, it all comes together to create a much more promising future for us all. The willingness to take action is the first step in the answer. From us as citizens, from businesses that have made billions from using the planet's resources irresponsibly, and from our elected officials to have the vision, confer broadly, make tough and occasionally unpopular choices, and look beyond partisan politics to meaningful long-term governance. For all of us to realize that Earth is our only home, our life support system, and the most crucial respirator we have.

As for our team, HRDN works every day to safeguard the environment, preserve animals, and foster a connection between people and wildlife. They labor daily to make our dream of a "wilder, healthier, more colorful world" a reality. The use of the term "healthier" is not accidental. We need a thriving earth for our very survival. We must approach the climate issue with a diverse set of views, experiences, skills, and knowledge because we are all in this together.

I have faith in us. I speak for everyone. I support moving forward to greater rather than returning to the status quo. I'm sure.

## ***Letter from the Editor – Doing What We Can***

All life on Earth is fundamentally dependent on the ecosystem. However, excessive environmental exploitation in recent years has led to deteriorating environmental circumstances that are getting worse by the day. Environmental degradation occurs over time due to a variety of factors, including mining, industrialization, contemporary urbanisation, deforestation, the discharge of toxic effluents, landfills, and pollution of the air, water, and land. As more regional and international actors join the battle against climate change in the coming years, the significance of environmental security will undoubtedly grow. However, it is crucial to examine and comprehend the problem from strategic, economic, and legal viewpoints.

### **Wishful thinking does not bring about change, We Must Act**

The simplest and quickest method to save the environment is to work together towards a collective goal. Ban Ki-moon affirms that the fights to save the environment, alleviate poverty, and promote economic development are all interrelated. Climate change, energy limitations, water scarcity, world health, food security, and women's rights must all be addressed together. There must be universal answers to all problems. Finding the connections, connecting them, and offering answers are the things we must do and anticipate. I suggest that every business, regardless of its size, industry, or location, start by finding its tangible effects on the environment, the economy, and society. The process should then continue with measurement, management, and change.



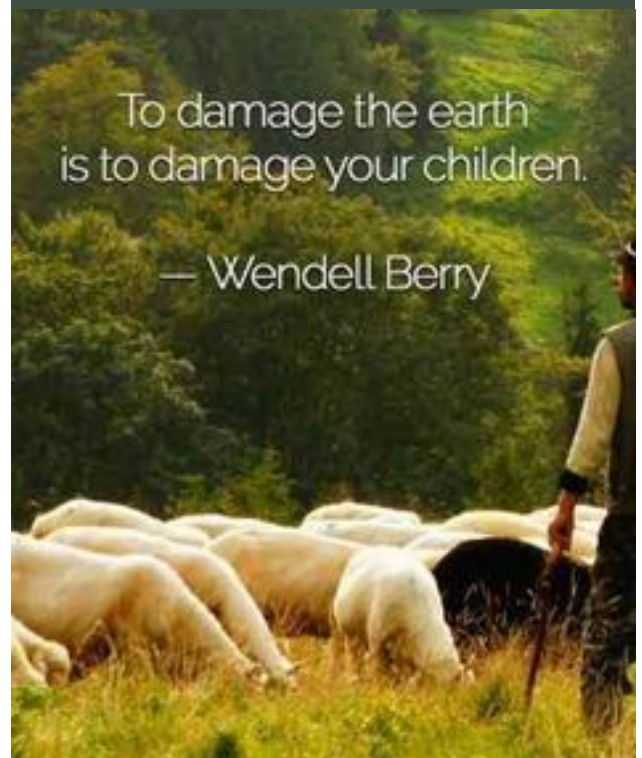


## Environment of Pakistan

With a population of 1.3 billion, Pakistan is the sixth most populous country in the world. It has a vast array of natural resources and ecological areas, ranging from the Karakoram Mountains in the north to the coastal region in the south. The flood lowlands of the Indus and its branches are in the east, while the Himalayan and Hindu Kush mountains are in the west. Resources that have benefited the nation's economic growth have been conferred upon each of these ecosystems. The rangelands, which make up the majority of the mountainous territory, have helped to sustain the country's thriving cattle sector. With 800 different kinds of fish and a wide range of crustaceans, Sindh's highly fruitful littoral zones have made it possible to support a flourishing fishing industry. In addition to being an important source of forest products, the mountainous, riverine, and mangrove forests have safeguarded rivers, kept soil quality, and offered essential biological services. Last but not least, the River Indus floodplains and the irrigated regions have made the nation's farms the breadbasket.

## Our Environment

The word "environment" literally refers to the area or circumstance in which an individual exists. All living creatures on Earth are primarily supported by their surroundings. It consists of both organic and man-made elements. Living things, such as oxygen, water, and soil, are considered natural components. Human-made elements include things like houses, businesses, and roads. Earth is the only world in the solar system where life and sustainability are feasible due to its environment. Since the beginning of time, the Earth has given all of its people everything they require to survive. In contrast, humans have destroyed the world by using all of its resources for their own self-serving purposes, leaving it to resemble a desolate wasteland.







## Our Challenge as a Nation

The main issue is how to encourage economic development in the nation while protecting natural resources, fostering eco-efficiency, increasing public involvement, and equipping local communities to take care of the environment. It also points out that despite Pakistan's small contribution to global greenhouse gas emissions, the nation faces the greatest environmental threat in the form of climate change, and that dealing with it is no longer an option given the phenomenon's worsening symptoms, which include catastrophic floods and droughts. The identified possible effects of climate change are extensive and likely to have an influence on all facets of development, spanning numerous industries and ecosystems.

## Humans and Climate Change

Our consumption of fossil fuels and their associated CO<sub>2</sub> emissions is one of the most significant ways that people have impacted the ecosystem. Recent research shows that CO<sub>2</sub> emissions are linked to the loss of the carbon-sink effect of forest lands (due to deforestation) and the presence of particulate matter in the air. This is especially true when emissions are combined with emissions and the existing particulate matter in the air and the deterioration of the earth's ozone layer. The scientific community has come to the conclusion that although there is disagreement regarding the scope and effects of such climate change, human behavior does affect the world's temperature to some extent.

*The environment is  
where we all meet;  
where we all have a  
mutual interest; it is  
the one thing all of  
us share*

LADY BIRD JOHNSON

# Environment and Health Scorecard of Pakistan - 2022



**Air Pollution**

- 51% of people lack access to clean energy and cooking equipment.
- Air pollution is responsible for 35% of fatalities from stroke and ischemic heart disease.



**Water and Sanitation**

- 64% of people lack access to clean water to drink.
- 58% of diarrheal fatalities are a result of contaminated drinking water, poor sanitation, and poor personal cleanliness.



**Occupational Health & Safety**

- 28 persons of working age per 100,000 die from diseases. 82% annually owing to work risks
- 4 people of working age per 100,000 suffer fatal injuries from workplace dangers each year.



**Climate Change**

- A high emissions situation predicts 4 times more heat-related fatalities in 2050 than between 1961 and 1990.



# "Plant for Pakistan" Plantation Drive by HRDN

Nearly every person on the planet is already affected by climate change. Natural disasters, environmental degradation, and biodiversity loss can devastate agriculture, cutting people from nutritious foods and safe water. They can lead to dangerous environments and disease outbreaks, destroying the safe shelter, quality health care, and education systems we need to thrive and survive. Human Resource Development Network (HRDN) in collaboration with Capital Development Authority (CDA) conducted a plantation campaign as part of the Green Initiative. During August and September, 300 Fruit trees (Guava and Louqat) were planted at Shalimar Cricket Field Margala Road Islamabad as part of the government of Pakistan's commitment to creating a clean and green Pakistan. 1000 trees were planted at several Beacon House School System locations in Islamabad and Rawalpindi (Sukh Chaine, Syupm, and Kachnar).



Plantation drive in collaboration with CDA



Plantation drive at Beacon house School System



## **Plantation Campaign-2022 “Plant for Pakistan” Arbour Day-Family Festival**

On July 26th, 2022 with the involvement of local Activists and the community Family Festival was celebrated at Old Lalazar

Rawalpindi. Children actively participated in Magic Show, Poster Painting, speech competition and plantation

More than 500 saplings of forest and fruit trees were contributed as a goodwill gesture by Punjab Forest Department and GBTI for Green Pakistan.



### **Plantation at Jamia Ghousi**

On August 4th the tree plantation drive, Plant for Pakistan was launched at Jamia Ghousia Zia-Ul-Uloom Rawalpindi. The students and management of Jamia Ghousia and HRDN planted the saplings of (Guava, Sukhcahin, Cypiam, and Kachnar) on the occasion. 350 saplings were planted



## Highlights of the year 2022



Figure: People Displaced by Climate Intensified Floods

The extreme heat and catastrophic floods of this year serve as a stark warning that natural catastrophes brought on by climate change have the potential to seriously hamper Pakistan's development goals and efforts to fight poverty. More than 8 million people have been left homeless and over 1,700 people have died as a result of these catastrophes. There have been significant losses and damages totaling more than \$30 billion to infrastructure, investments, crops, and animals. The Country Climate and Development Report (CCDR) for Pakistan, published today by the World Bank Group, reaches the conclusion that the nation needs to make fundamental changes to its development trajectory and policies. These changes will call for sizable investments in people-centric climate adaptation and resilience, which will need international support

## Flood Relief/Response Activities by HRDN



- PKR 178,000 funds have been raised through philanthropists
- 100 Mosquito Nets purchased (84,000) and distributed at two locations
- Medicines purchased (52,000)+ packs of medicines received as a donation at two locations
- 100 Women Hygiene kits purchased (40,000) and distributed at three locations





## Medical Camps by HRDN

### Free Medical Camp in collaboration with MRDO at Khairpur

Free Medical Camp was setup on September 02,2022 in collaboration with MRDO



HRDN arranged a Medical camp for Transgender Community at Latifabad Hyderabad in collaboration with IRM.



HRDN in collaboration with IRM with the support of Dr Essa Laboratory & Diagnostic Center and Rotary Club arranged Medical Camps for flood effectees vulnerable areas, free medicine, and spot medical test services were provided to communities.



## **Temporary Learning Center(TLC)-in collaboration with MDF at Hyderabad District**

- TLC was set up in collaboration with Management Development Foundation(MDF) for flood affected Children in Tent City in District Hyderabad from September 06, 2022
- 220 children (5 years to 14 years of age) from District Hyderabad, Dadu, Qamber Shadadkot are coached by two teachers
- Stationery is being provided
- Sports and physical activities are being focused
- 50 households are being supported with Women's Hygiene Kits



## **Distribution of food in collaboration with SAMI FOUNDATION-Umerkot**

- Distribution of cooked food to 200 Households at Tent City Cattle farm Umerkot
- 3 TLC s at Tent city 270 children (5-10 years)157 boys and 113 girls
- Teachers(2 at each center) are provided by Education Department Sind
- EC Kits and Sports Kit provided at each Center





## **Audit Committee (AC) Meeting**

An in person first audit committee meeting was held on September 26, 2022. The meeting was scheduled to finalize the audit report and discuss the external audit report



## **Consultation Meeting at EAD for NGO Policy**

The consultation meeting was held at EAD , presided by Mr. Ayaz Sadiq Minister of Planning & Development to discuss and finalize NGO Policy before submitting it to cabinet for approval

A coordination meeting to discuss and finalize events and activities for the BC awareness campaign with First Lady was held on August 12, 2022





## Summer Internship 2022

Internships can assist with developing soft skills like confidence, decorum, self-efficacy, and interpersonal abilities.

HRDN provided a dynamic Summer Internship Programme that serves as an excellent platform for training and learning for fresh university graduates from every part of Pakistan. As part of this program, interns spent six weeks working in a professional setting where they gained practical experience in the subject of development.




## **MOU Signing with Gilgit Baltistan Rural Support Programme (GBRSP)**



After a series of consultation meetings with GBRSP management, the MoU was signed on September 16, 2022, for one year. The parties have agreed to organize capacity-building events jointly. HRDN will provide technical support. The HRDN will ensure the implementation of the agreed schedule and timeframe and agreed to milestones

## **Future Activities**

- 
- 5th All General Members Meeting
  - Audit and Finance Committee Meeting
  - Media Matters Training
  - Plantation Drive

**“Change or be changed, right? And what we mean by that is that climate change, if we don't change course, if we don't change our political and economic system, is going to change everything about our physical world.”**

**Naomi Klein**



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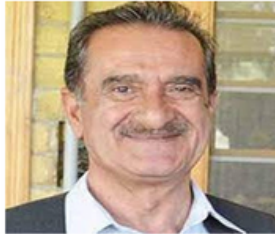
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