



6th CAREC Working Group on Health Pre-meeting

# Addressing Climate Change and Health to Enhance Regional Health Security



8 April 2025 | Bishkek



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- Pakistan's climate agenda
- Challenges faced by the health system
- Toward a healthcare Decarbonization Strategy: approach taken in Pakistan.
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# Pakistan is significantly impacted by climate change



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Increased temperature  
and heatwaves



Glacial melting and  
water insecurity



Frequent and  
severe flooding



Droughts and  
water scarcity



Sea-level rise and  
coastal erosion



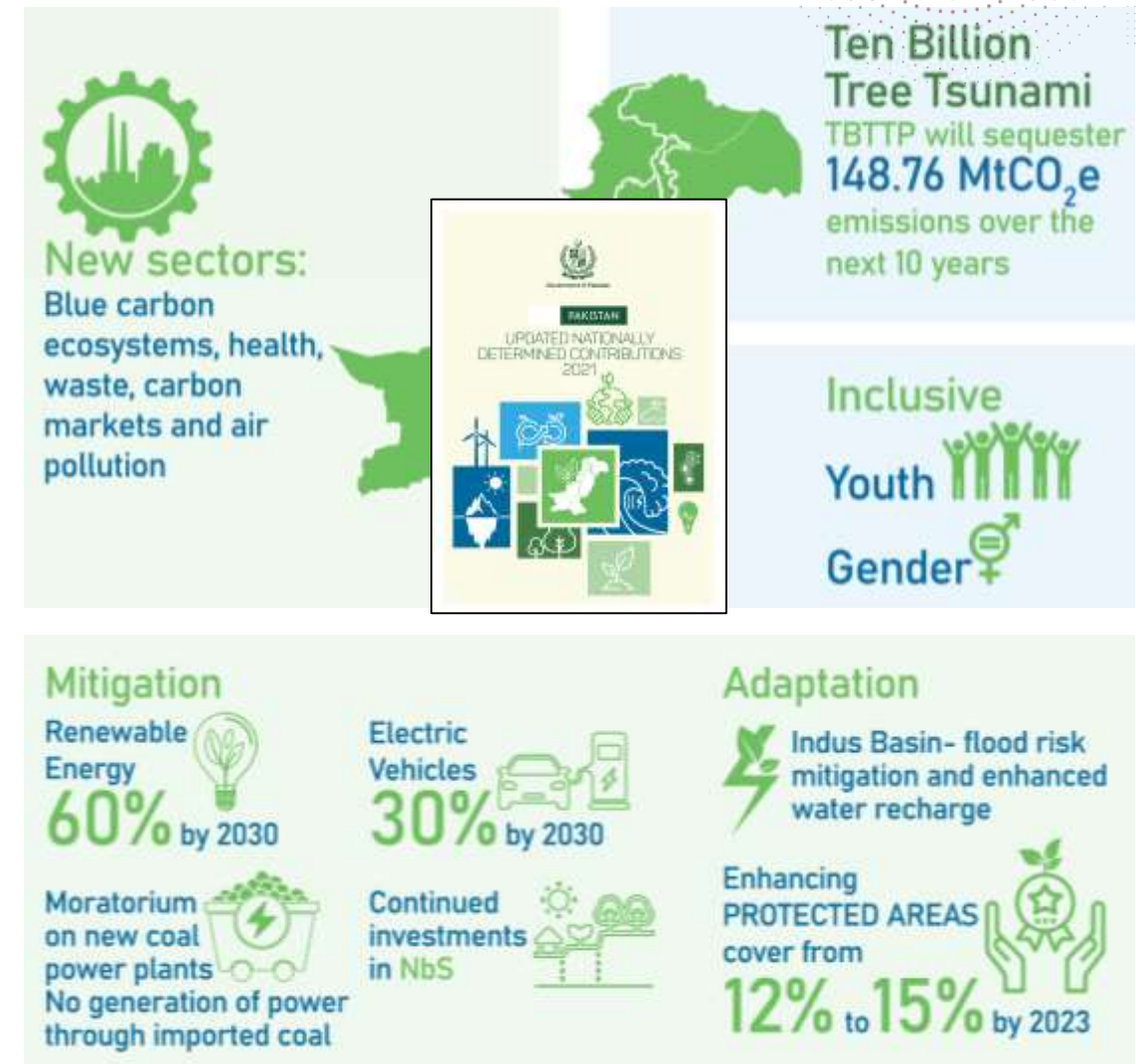
Soil erosion and  
landslides

World Bank. 2024. Climate and Health Vulnerability Assessment: Pakistan. [Link](#).



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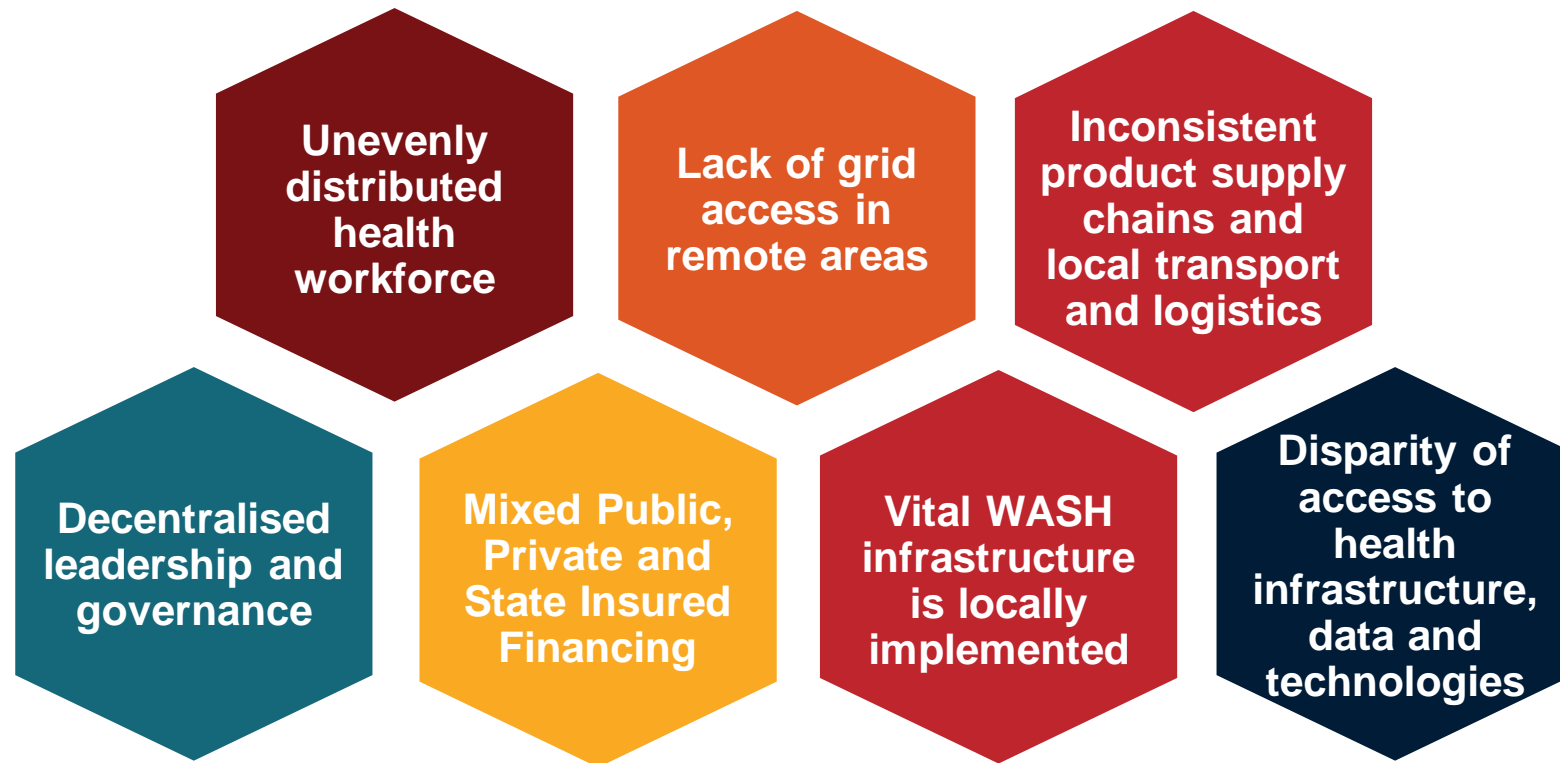
To tackle these,  
Pakistan has  
**ambitious climate  
goals** and  
commitments to meet  
by **2030** and **2050**.



Pakistan NDC climate ambitions. Image source: Government of Pakistan 2022. [Link](#).

# The Pakistan health system

The Pakistan health system faces a number of structural challenges which make decarbonization and responding to climate risks harder...





# Developing a health decarbonization strategy for Pakistan

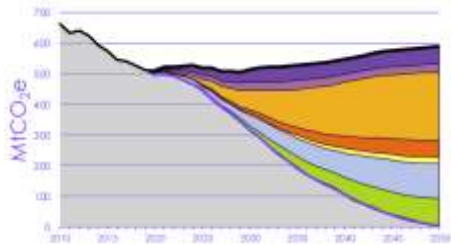


## *Approach:*

- Pakistan is developing health decarbonization strategy using the **standardized approach** with the support of the Asian Development Bank.
- This begins with developing an **Emissions Baseline**, before developing a **Decarbonization Roadmap**, and **Decarbonization Action Plan**.
- Healthcare delivery is **devolved to provinces**, so we are undertaking additional analysis to produce **provincial action plans**.
- Work being developed with input from **provinces** and **private sector** to ensure the program is supported by **key stakeholders** across Pakistan.
- This work will enable **strategic planning** and **financing** for decarbonization action across the healthcare as well as establishing approaches to **progress tracking**.

# Health decarbonization strategy for Pakistan

Outputs:

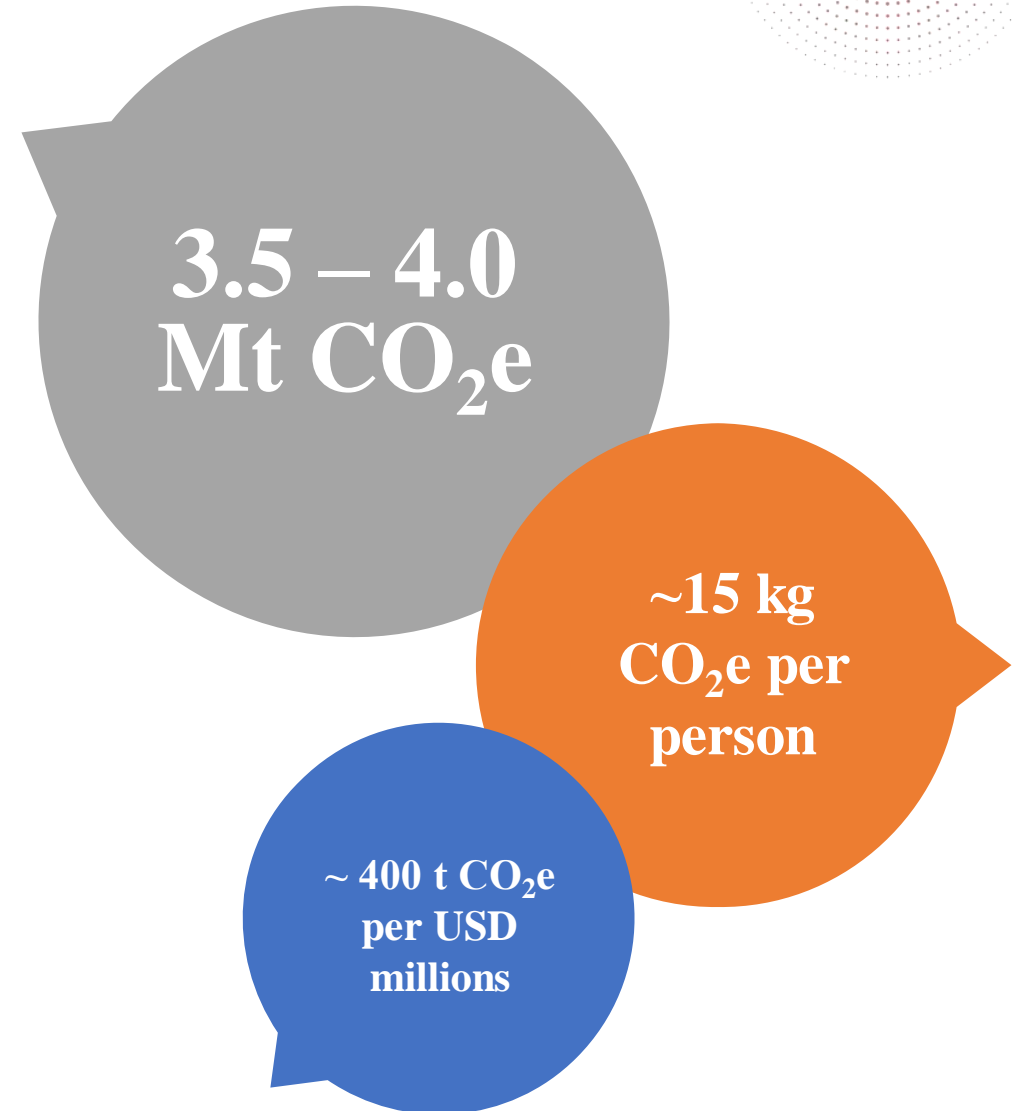


Deliverable:	1 – Baseline Emissions Footprint	2 – Decarbonization Roadmap	3 – Decarbonization Action Plan
Description:	<ul style="list-style-type: none"><li>Report providing <b>detailed analysis of current sector emissions</b> and hotspots.</li><li>Includes <b>provincial data</b> and detail on regional differences in emissions.</li><li>Aim to <b>include detailed facility data</b> where available as case studies.</li></ul>	<ul style="list-style-type: none"><li>National decarbonization roadmap report. <b>Public facing document</b> providing analysis of current emissions, future trends, and decarbonization opportunities for the sector.</li><li><b>Provincial-annexes issued</b> with report to provide standalone content focussed on 3 provinces</li></ul>	<ul style="list-style-type: none"><li><b>Three provincial action plans</b> developed with input from provincial health systems and country experts</li><li>Analysis of decarbonization <b>actions and policies</b>, timeframes, key stakeholders, and KPIs.</li><li>Focus on <b>enabling project mobilisation</b> to deliver emissions reduction</li></ul>

# Emissions Baseline for healthcare in Pakistan

*Progress to date:*

- Preliminary modelling indicates sector emissions in the range **3.5-4.0 Mt CO<sub>2</sub>e** (megatons of carbon dioxide equivalent) in 2022.
- This equates to roughly **15 kilograms per person** and **400 metric tons per million USD** spent on healthcare
- Early outputs suggest that **electricity** and the **pharmaceutical supply chain** are significant emissions hotspots.
- **Hospitals** and **Pharmacies** are the two highest emitting facility types.
- **Rural health centers** and **primary care facilities** have lower emissions, despite outnumbering other facility types.





# Next steps: implementing change

This work can provide a foundation for wider decarbonization initiatives across provincial health systems in Pakistan.

Next steps could include:

- **Target setting** for emissions reduction
- Development of budgeted **investment plans**.
- Integrating KPIs such as sector emissions into wider **performance tracking** and **financing agreements**.
- **Capacity building** across health networks nationally and regionally.





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