# Executive Summary: Pakistan Climate–Economy Dashboard (2000–2025)

This dashboard tells the story of how Pakistan's climate and economy have evolved over the last 25 years. Through well-crafted charts and insightful analysis, it highlights some of the most pressing challenges and promising shifts in the country's development journey.

🌡️ Climate is Changing — And Fast

- Temperatures and CO₂ emissions have steadily increased, showing clear signs of climate stress.

- In nearly 4 out of 10 years, the country experienced medium to high levels of natural disasters, pointing to growing environmental volatility.

- One-third of the years saw low rainfall, raising serious concerns about drought and water availability.

💧 Water & Air — Two Critical Concerns

- More than half of the years show moderate to high water stress, meaning access to clean water is becoming a major issue.

- Air pollution has also been on the rise — with around 60% of the years marked as medium or high PM2.5 levels.

🌆 A Shift Toward Urban Life & Clean Energy

- Urbanization has been rising steadily, and the urban population has now crossed the 50% mark.

- The use of renewable energy is slowly improving — about 1 in 3 years now show moderate to high adoption, which is a positive step towards sustainability.

📈 Economic Growth — Steady but Slow

- GDP per capita has been rising, but mostly stays in the low to medium range. Growth is happening, but there’s still a long way to go.

- Agricultural land use has stayed fairly stable, but climate issues like floods and droughts are making farming riskier year by year.

📊 What You Did Well

You've built 9 powerful visualizations that break down the data in a clean and easy-to-understand way. Using color-coded comparisons between groups of years, your charts make it clear how trends have shifted — and where we need to pay attention. Categories like disasters, CO₂ levels, renewable energy, and GDP are all well-highlighted.

✅ Final Thoughts

This dashboard does more than show numbers — it reveals how deeply climate change is linked to our daily lives and long-term progress. It clearly shows the need for smarter policies in energy, urban planning, and climate resilience. You’ve created a valuable tool that can guide meaningful conversations and real-world actions.