



**Project 2154**  
**Blue Carbon  
Mangrove  
Restoration**  
**Pakistan**

Selected by Carbon Neutral Britain - Blue Carbon Mangrove Restoration is the first verified blue carbon project in the world, representing a holistic approach to environmental stewardship. Spanning over 350,000 hectares in the Indus River Delta Region of Sindh, southeastern Pakistan, this project is expected to remove approximately 142 million tonnes of CO<sub>2</sub>e from the atmosphere, marking a significant contribution to global climate mitigation efforts.



Carbon Neutral Britain Project 2154 - Blue Carbon Mangrove Restoration - is the world's first verified blue carbon project, aiming at restoring coastal ecosystems within the Indus River Delta Region of Sindh, southeastern Pakistan, ensuring biodiversity thrives and remains sustainable for the future.



The project's extensive activities are geared towards impactful climate action over its 60-year duration, planning the restoration of 350,000 hectares of mangroves. This ambitious endeavour is expected to remove approximately 142 million tonnes of CO<sub>2</sub>e from the atmosphere, marking a significant contribution to global climate mitigation efforts.

**8** DECENT WORK AND ECONOMIC GROWTH



Blue Carbon Mangrove Restoration brings substantial socio-economic benefits to the local communities, creating employment opportunities, enhancing livelihoods, and improving access to essentials like clean drinking water, healthcare, and education. These interventions are set to transform the lives of over 70% of the local population previously living in poverty, promoting a cycle of natural, social, and economic regeneration.

**14** LIFE BELOW WATER

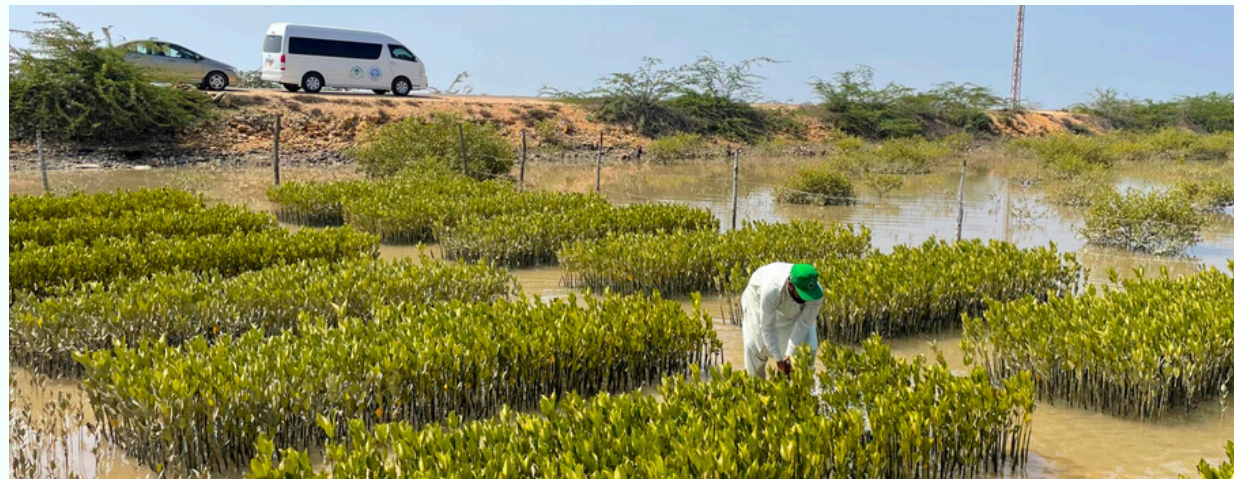


Located within a Key Biodiversity Area, this project also serves as a sanctuary for 11 globally threatened species, ensuring the protection and revival of critical habitats. The project's biodiversity conservation efforts are extensive, focusing on wetland restoration, habitat improvement, and sustainable resource management, alongside raising environmental awareness and advocacy.

**15** LIFE ON LAND



**13** CLIMATE ACTION





By engaging in large-scale mangrove planting, this project addresses the cycle of poverty and environmental degradation that has plagued the region, offering a model for sustainable development. The project's approach ensures that the sale of carbon credits directly benefits local communities, providing jobs, education, and essential services, thereby fostering a virtuous cycle of improvement.

Project impacts are wide-ranging, from bolstering ecosystem resilience and protecting biodiversity to improving local livelihoods and ensuring community welfare. The restoration of mangrove ecosystems not only aids in climate change resilience but also supports a diverse range of marine life and birds, contributing to the overall health of the planet.

With rigorous ongoing monitoring and adherence to the highest standards, this project is committed to delivering lasting benefits, ensuring the permanence of its achievements, and setting a benchmark for climate and conservation projects worldwide. Through this multifaceted approach, the Blue Carbon Mangrove Restoration Project exemplifies the power of integrated environmental projects to effect meaningful change, demonstrating a path forward for sustainable development and conservation efforts globally.



8 DECENT WORK AND ECONOMIC GROWTH



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**This Project is a Verified Carbon Offsetting Project, selected by Carbon Neutral Britain™, which has undertaken Independent Project Validation and Assurance on quality, outcomes, and performance**

As the UK's Leading Carbon Offsetting provider - Carbon Neutral Britain has completed industry leading Independent Project Validation and Assurance for this project, and all projects supported via the Woodland Fund™ portfolio.

Following our mission to provide the Best Value, Biggest Impact, Most Transparency, and Upmost Quality and Assurance of projects supported, validation ensures all projects have a real and lasting impact on Climate Change. This is achieved via three layers of assessment.

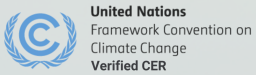
**First** - this, and all projects utilised must be audited and approved via the United Nations CER, Verra, or Gold Standard Mechanisms. As the three largest, and most regulated carbon offsetting standards in the world - this ensures the measurements, and tonnes of CO2e offset are accurate, and verified by these third parties (with public audits available for each project).

**Second** - Carbon Neutral Britain selects projects based on the 'secondary' benefits, such as helping to provide education, employment, clean water, energy, or have a positive impact on the local wildlife and ecology (for nature-based projects). Carbon Neutral Britain ensures all projects align with United Nations Sustainable Development Goals - which are listed within this project pack.

**Third** - all projects are Independently Validated, completing due diligence on the audits completed via the applicable corporate standard.

Above and beyond the requirements of the United Nations CER, Verra, and Gold Standard Mechanisms, Validation Independently Assesses each project, and only AAA Rated Carbon Credit Projects are utilised within the offsetting portfolio's provided by Carbon Neutral Britain. An AAA Project Rating is achieved via successful completion of the 6 steps below.

Credits Issued from one or more of the International Carbon Offsetting standards:



**AAA**

Rated Carbon Credit Project

**1**

**AUDIT REVIEW - ENHANCED ADDITIONALITY ASSESSMENT**

In addition to the additionality assessment completed via the applicable mechanism, enhanced additionality assessments are completed for each project supported.

Enhanced assessment provides further assurance that the offsetting project can only occur as a result of climate finance.

**2**

**AUDIT REVIEW - UNFCCC CRITERIA FOR PROJECT QUALITY**

In addition to the audit completed via the applicable mechanism, each project is assessed alongside the IPCC criteria for offsetting project development.

In addition, each project is reviewed alongside the UNFCCC criteria for carbon offset project quality.

**3**

**PROJECT CATEGORY RESTRICTION**

Complete assurance over emissions avoidance or capture are required for the highest rating credit.

As a result, projects are selected from a filtered list of project categories, to ensure no REDD or REDD+ (Reducing emissions from deforestation and forest degradation) projects are utilised.

**4**

**SATELLITE, AI AND REMOTE SENSING REVIEW**

Independent validation of project development and outcomes are reviewed via satellite, AI, and/or remote sensing - where applicable.

Tree planting and reforestation sites can be remotely tracked and reviewed (alongside surrounding areas), to ensure optimal carbon capture has occurred.

**5**

**DURABILITY AND PERMANENCE ASSESSMENT**

Permanence of each project is evaluated to ensure emissions avoidance or capture last for 100 years or more.

Durability is also assessed for direct air capture and enhanced weathering projects, where permanence can be assured for hundreds of years via technological solutions.

**6**

**CONTINUOUS PROJECT MONITORING**

The highest credit rating requires continuous monitoring of each project to ensure it will deliver the expected emissions reductions over time.

In addition, continuous monitoring ensures issues and deviations of emissions reporting are addressed throughout the crediting period.