



# Climate Change Adaptation Strategies for Coastal Communities in Benin,

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## Abstract

The coastal communities in Benin are facing increasing threats from climate change, including sea-level rise and storm surges, which necessitate the development of effective adaptation strategies. A mixed-methods approach was employed, including surveys, focus group discussions, and policy analysis to assess the implementation and impact of adaptation strategies. Community participation rates varied significantly across different districts (45-70%), with a notable increase in protective structures like seawalls and sand dunes (30% growth). Despite challenges such as limited resources, inadequate funding, and cultural resistance, the adaptation programmes have shown some resilience improvements. Further investment is required to enhance community capacity building and infrastructure development. Policy makers should prioritise long-term sustainability in coastal management strategies. climate change, coastal adaptation, Benin, sea-level rise, protective structures The empirical specification follows  $Y = \beta_{0+\beta}^{-1} p X + \text{varepsilon}$ , and inference is reported with uncertainty-aware statistical criteria.

**Keywords:** *Geographic, West Africa, Adaptation Strategies, Coastal Zones, Vulnerability Studies, Risk Analysis, Community Engagement*

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