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# ABSTRACTS

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# Carbon trade-offs assessment in coastal fisher households of Alappuzha, Kerala

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The adaptation and mitigation of impacts of climate change are complex, difficult and multi-dimensional undertaking, but are perquisites for lessening the realised impacts of climate change. Projections on carbon emissions at the household level in the climate change context need to be developed as the first step for future analytical and empirical models and for planning better management adaptations. In this regard, the carbon budgeting assessment was done in the selected coastal fisher households in the Alappuzha district of Kerala. The objective was to assess the major sources of carbon emission and sequestration in the household and village level. The study also analyse the perception of the fishers towards the carbon budgeting. The study assessed the various carbon emission sources and the average amount of net carbon traded across households. The study focuses on the need for providing strategies and guidelines to the policy makers in developing a framework for carbon emission reductions and develop carbon sequestration measures like mangrove afforestation, solar panels, wind energy, wave energy and organic farming for promoting low carbon emissions technology at the national levels. The paper also highlights the need for developing green fishing incentives like fishermen household assistance measures to support energy efficiency improvements in households to reduce energy costs with incentive for innovation in low emissions and renewable technologies which would deliver additional environmental benefits.

**Keywords:** Carbon trade-offs, carbon sequestration, fisher households, Alappuzha