

Climate Resilient Infrastructure Roadmap for Barbados

Name of legal entity	Country	Overall project value (US\$)	Proportion carried out by candidate (%)	No of staff provided	Name of client	Origin of funding	Dates (start/end)	Name of partners if any
Sustainable Seas Ltd	Barbados	\$140,000	25%	1	IMC World-wide	International finance corporation (IFC)	May 2021 to December 2021	Teknik Structure Consultants (TSC)

Detailed description of project	Type of services provided
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<p>The majority of small island developing states (SIDS) are extremely vulnerable to the long term effects of natural hazards such as hurricanes, earthquakes, volcanoes and tsunamis making them multi-hazard risk zones. Which erodes their adaptive capacity and socio-economic stability. The allocation of resources in the aftermath of a natural disaster detracts time and funding away from other long-term development schemes that would reduce vulnerability. While there have been several global financing mechanisms they have not been widely accessible to SIDS. Along with this SIDS are a greater risk of being marginalized from the global economy than other developing countries due to their small size and therefore economies of scale.</p> <p>The objective of this project/seed is to identify a pipeline of investment opportunities linked to climate-smart infrastructure in Barbados. The intention is that the scheme developed for Barbados (and previously undertaken for Dominica) may then be applied to other SIDS around the world.</p> <p>The key activities in this project was to build a robust roadmap for Barbados which included tasks as follows: 1. a risk informed vulnerability assessment which includes analysing any existing risk assessments and using data analytics and modelling tools to visualize the potential hazards Barbados is vulnerable to. 2. a pipeline review and project prioritization which involved working closely with key decision makers within government to define resilience targets and evaluation criteria along with reviewing and prioritising existing and new infrastructure ideas. 3. identification of potential entry points for private sector participation which included developing project teasers for a shortlist of prioritized projects along with proposing recommendations to government stakeholders.</p>	<p>Jonathan McCue on behalf of Sustainable Seas Ltd was Team Leader for IMC whose role was to lead on the following:</p> <ul style="list-style-type: none"> • Definition of a criteria against to which to assess the infrastructure investments in Barbados—which took into consideration the resilience targets • Production of a three-dimensional visualisation of climatic and other environmental vulnerabilities that factored into the resilient infrastructure development plan for Barbados. • An outline of potential critical infrastructure pathways that covered a wide range of factors such as water, waste, ports and airports. • Construction of a decision support tool to help prioritize critical infrastructure investments i.e gaps that may exist and gaps that should be filled. • A shortlist of prioritized investments based on the predefined resilience criteria and project readiness. • A reflection of high-level capital costs and likely revenue streams • A project teaser and a market testing report that summaries the findings of the market testing. • Recommendations to unlock private sector participation in prioritized investments in Barbados, that identification of gaps that must be closed in order to produce a robust resilience plan that would attract private investment.
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