



Technical and Financial Project Proposal Template

Name of the Organization: The Saint Lucia National Trust	Type of Organization: Non-Governmental Conservation Organization
Brief Description of the Organization: The Saint Lucia National Trust (SLNT) is a non-profit, non-governmental membership organization established by an Act of Parliament (Chapter 6.02 of the revised Laws of Saint Lucia). The role of the SLNT is to “conserve the natural and cultural heritage of Saint Lucia”. In fulfilling its mandate, the SLNT provides opportunities and resources that can help to raise awareness and understanding of the issues affecting the country’s patrimony. The SLNT has management responsibility for the Point Sable Environment Protection Area (PSEPA) which it manages through the Trust’s southern office which is located in Vieux Fort with currently two dedicated staff members.	
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Project title: Building sustainability of the coastal communities of Vieux Fort, Saint Lucia and the Pointe Sable Environmental Protection Area	
Project Objective and Expected Outcomes: The project has multiple objectives for improving the sustainability of Vieux Fort’s coastal communities, coastal resources (including Pointe Sable Environmental Protection Area, PSEPA), local livelihoods, human health and nationally-significant economic infrastructure in the south of Saint Lucia. Specifically, the project seeks to promote energy efficiency by establishing a demonstration site and hosting a program of visits; it seeks to build resilience to natural disasters in the face of coastal erosion and climate change by building local community understanding of coastal processes and implementing dune stabilization and beach protection measures; it seeks to improve the sustainability of solid waste management by starting a composting pilot project and by encouraging public-private partnerships for recycling; it seeks to improve water resource management by establishing a rain water harvesting demonstration site and hosting a program of visits, and by improving stormwater drain management; and it will improve the sustainability of local transit in the main recreational zone of Vieux Fort by resolving user conflicts. The project will be the first effort in the south of Saint Lucia to take an integrated approach towards local sustainability and stakeholder participation in integrated sustainable development. Expected outcomes include new public-private partnerships between various levels and sections of government with private actors and non-profit organizations. The implementation of pilot activities will build significant local capacity for sustainable development in the south of Saint Lucia which otherwise will remain lacking under the status quo. The project experience will be shared and can be replicated in other areas of Saint Lucia as well as in other small island developing states.	
Target Population: The local community of Vieux Fort population 5875 (2010 Population and Housing Census	



Results) including residents, private and public businesses, livelihood groups and households which are economically and geographically linked to the PSEPA and its coastal resources. Within the Pointe Sable Environmental Protection Area (PSEPA) 350 hectares is terrestrial space containing resources used by the adjacent communities. There are approximately ninety four (94) electoral divisions in the Vieux Fort District, but only thirteen (13) divisions contain populations larger than one hundred (100) households. Of those, the largest communities adjacent to the PSEPA are Bellevue, Bruceville, LaRessource, Vieux Fort Town and Pierrot, which are focal areas for this project.

Amount Requested in USD: \$39,983

Project Duration in Months: 12 months

2. Project Summary:

Sustainable development is a national priority for Saint Lucia, and this project will bring sustainability efforts to address natural hazards for coastal communities in the south of the island for the first time. Through SLNT who is a key partner organization nationally and in the south of the island, the project will assess the nature of threats to Vieux Fort’s coastal communities, coastal resources (including PSEPA), local livelihoods, human health and nationally-significant economic infrastructure from coastal hazards in the face of climate change and under scenarios of sea level rise and extreme weather events. Building on strong stakeholder participation to date in the management of PSEPA, the project will involve experts, local residents, private businesses and stakeholder representatives together with technical expertise to demonstrate innovative approaches to local natural disaster management, solid waste, water, energy and transit. The project is timely given a high level of community interest in natural hazards and concern about impacts of pollution and dumping of solid waste. SLNT is well placed to implement the project given its involvement in sustainable development nationally and drawing on solid foundations with the public and private sector in the south and especially in the regional center of Vieux Fort.

El desarrollo sostenible es una prioridad nacional para Santa Lucía, y este proyecto permite traer por primera vez esfuerzos de sostenibilidad hacia las comunidades costeras en el sur de la isla. A través del SLNT que es una organización clave en el desarrollo sostenible a nivel nacional tanto en el sur de la isla, el proyecto busca estudiar la vulnerabilidad de las comunidades costeras de Vieux Fort, los recursos costeros (incluyendo PSEPA), la salud humana y la infraestructura económica de importancia nacional en relación al cambio climático y el aumento del nivel del mar y los fenómenos meteorológicos extremos. SLNT y la PSEPA están contruidos a una base comunitaria y participativa. El proyecto involucrará a las autoridades, residentes, negocios, representantes de las comunidades y los expertos técnicos para mostrar alternativas innovadoras para enfrentar los desastres naturales, la problemática de los desechos sólidos, y el manejo local de los recursos de agua y energía, y tránsito. El proyecto aprovecha del alto nivel de interés de la comunidad en los desastres naturales y su preocupación con los impactos de la contaminación y de los desechos sólidos. SLNT es la organización más adecuada para la ejecución del proyecto debido a su participación a nivel nacional en la promoción del desarrollo sostenible y debido a su red de contactos en el sector público y privado en el sur de la isla y en la ciudad regional Vieux Fort.

3. Organization’s Experience

SLNT is the longest serving environmental and heritage conservation organization on the island and is legally mandated to conserve both the natural and cultural heritage of Saint Lucia. A number of properties of significant natural, cultural, or historical significance have been either vested in (as for PSEPA), or bequeathed by individuals to the Trust for conservation purposes over the decades. SLNT is a key national actor in the promotion of sustainable development of Saint Lucia’s natural resources. Additionally, SLNT’s Executive Director and proposed project chair is currently



involved in the establishment of a long term National Sustainable Development Strategy for Saint Lucia.

SLNT has a southern programme and an office based in Vieux Fort where it has a pivotal position in local sustainable development and in bringing together multiple agencies and stakeholders for integrated planning and the management of natural resources. With its governance structures focused on principles of stakeholder participation and community inclusiveness, SLNT through PSEPA has direct links to key local project partners.

SLNT has a strong track record of bringing project funding and partner assistance to the Vieux Fort region. SLNT has proven skills in project management and the administration of cooperation projects, including the successful implementation of the OPAAL project including co-funding from OAS to assist PSEPA with management planning. Other project partners include The Nature Conservancy, UNEP-CEP and CaribSave. SLNT also has experience with Private Public Partnerships through various projects, activities and from its ongoing relationships and MOUs with groups such as the national development promotion agency Invest Saint Lucia. SLNT is thus well-placed to implement the proposed project and capable of managing it effectively and efficiently.

4. Project Narrative Description

4.1. Rationale:

The Government of Saint Lucia has been a Contracting Party to the Convention for the Protection and Development of the Marine Environment in the Wider Caribbean Region (Cartagena Convention) since 1984, and to its biodiversity-related Protocol Concerning Specially Protected Areas and Wildlife (SPAW) in the Wider Caribbean Region since 2000, which indicates the national importance that Saint Lucia places the sustainable management of its coastal and marine resources. Certain legislation, sector strategies and plans make some reference to sustainability, such as the Physical Planning and Development Act. Relevant national policies and plans include the Hazard Mitigation Policy, Saint Lucia National Climate Change Policy and Adaptation Plan and the Disaster Preparedness and Response Act.

Official sustainability initiatives, especially related to solid waste management and clean energy, have to date focused on Saint Lucia's northern region, hence this project represents a major step forward in filling the gap in sustainability initiatives in the southern region and Vieux Fort. This is important because Vieux Fort is home to nationally significant infrastructure, including the international airport (Hewanorra International Airport), an important sea port and the nation's largest fisheries complex. The local economy of Vieux Fort is highly dependent on the condition of the coastal zone and marine resources, with fisheries and tourism important parts of the local economy. There is potential for further development of tourism, as noted in the Quadrant Plan which seeks to implement the National Development Strategic Goals for Saint Lucia:

“The objective for the Southern quadrant would ultimately be to generate new sources of wealth and employment opportunities in Tourism, Information Communication Technology and Manufacturing. The development of Vieux Fort will seek to address the entire redevelopment of the town while addressing the current socio-economic issues in a comprehensive manner.”
(Government of Saint Lucia, 2007-page 27).

The Quadrant Plan identifies the PSEPA as a critical resource that will contribute to the development of the region. The Plan states that while the PSEPA “... can facilitate a range of activities that can provide direct social and economic livelihoods to the immediate and surrounding communities, it is important that the area be managed in a sustainable manner to ensure its conservation” (page 33).



This project will assist with implementation of national strategic goals by providing guidance on the management and physical and infrastructural development of the Vieux Fort area and in particular the PSEPA, ensuring that sustainable developmental considerations are not overlooked in the process of the development of this sensitive area. The proposed project is merited at this time as the Government of Saint Lucia and partner agencies seek to address climate change and the effect of unregulated development on its limited but valuable natural resources. The PSEPA is no exception because it holds tremendous economic, ecological and historical value. However, the resources within the PSEPA are vulnerable to both natural disasters and human activities, including unplanned developmental patterns, poor drainage infrastructure and unsustainable practices like sand-mining, clearing of beach vegetation and vehicular traffic on beach surfaces. Key partners share our interest in pursuing this proposal, including the Ministry of Physical Development, the Ministry of Infrastructure, the Vieux Fort Town Council and the Saint Lucia Air and Sea Ports Authority. Representatives of the Coastal Zone Management Unit and Protected Areas Unit of the Ministry of Sustainable Development, Energy, Science and Technology are key members of the PSEPA Management Team.

Amongst the local community there is awareness of impacts of pollution and of vulnerability to the impacts of coastal natural hazards. In consultation meetings for the recent updating of the PSEPA management plan (with support from the Gulf and Caribbean Fisheries Institute (GCFI) and NOAA's Coral Reef Conservation Program), national agency and community representatives alike indicated their concern about poor environmental management practices, likely impacts of these and especially the vulnerability of PSEPA and Vieux Fort to coastal erosion and flooding. These high priority issues have been included in the revised PSEPA management plan which is now going through the process of submission to cabinet for approval. We note that local awareness of these issues is heightened following the impacts of a severe weather trough on December 24th, 2013 which caused the Vieux Fort River to swell and break its banks, together with storm surge which caused flooding of communities, homes, businesses, the airport and local tourist resort. The proposed project thus responds to community concern about the potential for a repeat of this storm event, and at the same time leverages community interest to seek solutions for adaptation and hazard reduction.

The proposed project is timely both in relation to heightened community interest and given potentially significant support for the implementation of follow-up activities. SLNT has the opportunity to apply to the Caribbean Development Bank for significant grant funding of up to US\$600,000 that is available to NGOs to undertake interventions. Therefore while major adaptation strategies may not be implemented under this project mandate, the proposed project will build community understanding as a precursor to applying for CDB funding, which will bring further assistance to the issue of Vieux Fort's sustainable development, and which will ensure sustainability of the current project. We also anticipate working in close public-private partnerships (PPP) to support the implementation of project activities and to promote the exchange of best practices in the areas of energy, natural hazards, waste, water and transit.

Among other current projects associated with SLNT and PSEPA is the project 'Climate Resilient Eastern Caribbean Marine Managed Areas Network (ECMMAN)' led by The Nature Conservancy and funded by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU). The ECMMAN project does not duplicate or overlap with the proposed project activities, nor does it directly address any local issues associated with natural hazards, solid waste, water, energy or transit and their links with the sustainability of coastal communities. It does however bring important complementary assistance to PSEPA for capacity building related to marine protected area management. This includes activities to strengthen communications, law enforcement, monitoring and sustainable livelihoods, all of which will assist with SLNT's effectiveness in implementing the proposed project and in achieving meaningful progress based on its findings. We thus include the ECMMAN funding as match for the proposed project which in total exceeds the amount requested in this proposal.



4.2. Baseline:

The Vieux Fort area is a microcosm of many types of coastal ecosystems, including: beaches with high recreational value (Anse du Sable and Bois Chadon beaches) as well as significance for endangered biodiversity (eg. leatherback turtle nesting on Bois Chadon); two areas of wetlands and mangroves which are Ramsar sites (Mankoté Mangrove Marine Reserve and Savannes Bay Marine Reserve); coral reefs and areas of seagrass. Fishery resources consist most notably of the West Indian Sea Egg (currently under moratorium) with potfishing and spearfishing outside no-take zones associated with the marine reserves, and regular passage of longline fishing boats through the PSEPA. Sea moss farming takes place on the northern portion of Bois Chadon beach and in Savannes Bay, and there is traditional use of mangroves for charcoal production. Important terrestrial features are the Maria Islands (Maria Major and Maria Minor) which are home to seven species of reptiles, five of which are endemic, with restricted access by permit from Saint Lucia National Trust. Moule à Chique headland/lookout is within PSEPA and has cultural heritage in the form of a lighthouse, plus recreational and tourist value. Tourist value is also associated with watersports and horse riding/hiking within PSEPA.

Infrastructure and management capacity for urban environmental management in Vieux Fort is limited, as in many Caribbean islands. Stakeholder participation in local sustainability issues has been limited, but with some experience by stakeholders in planning for PSEPA. Stormwater management consists of large drains running from the airport and the local manufacturing sector, draining directly into PSEPA. The historical areas of Vieux Fort lack modern drainage and flood easily. The poorest coastal communities have relatively new road developments and some drains that carry runoff and waste directly into PSEPA. The arterial roadway runs along the coast and crosses over natural waterways. The lack of proper drainage is implicated in flooding, erosion and loss of the road when rivers overran their banks in 2013. Similarly, recreational areas adjacent to the coast and within PSEPA lack adequate stormwater management.

The Vieux Fort landfill is managed by the Saint Lucia Solid Waste Management Authority (SLSWMA) and is located across the road from the Mankoté Mangroves which are part of the protected area of PSEPA and are a Ramsar site. In stakeholder meetings about threats to PSEPA and the environment of coastal communities, dumping in Mankoté Mangroves was identified as a priority issue by local stakeholders. The landfill is actively managed by SLSWMA, and waste disposal is free of charge. Yet there is a lack of awareness of this in the community and dumping persists. We see an opportunity to work with SLSWMA to build community awareness in Vieux Fort about responsible waste management, and since there is currently no recycling service at the Vieux Fort landfill, there is potential to help SLSWMA to take meaningful steps towards integrated solid waste management for the south of Saint Lucia. There is currently no separation of waste, no management of electronic waste and pilot experiences related to composting have focused only on the north of Saint Lucia.

Saint Lucia, like other islands of the Eastern Caribbean, has marked wet and dry seasons. Yet there is little implementation of rain water harvesting locally. Like other local offices, businesses and homes, the SLNT southern office is connected to mains water, which we see as a missed opportunity to lead the path in enhanced local sustainability. The situation in relation to energy is similar, with a general lack of implementation of clean energy initiatives in Vieux Fort. To date, the north of Saint Lucia has been the focus of government efforts to promote clean energy. The Head Office of SLNT at Pigeon Island in the north of Saint Lucia is currently leading the way in piloting clean energy in the country. The Head Office is equipped with photo voltaic panels that generate solar energy for the office, but this is yet to be expanded to SLNT's southern office in Vieux Fort.

These issues of natural disasters, stormwater, solid waste, water and energy are set within the context of low-lying coastal communities which are highly vulnerable to impacts of climate change.



National reports on climate change indicate the likelihood of future impacts on the coast, PSEPA and Vieux Fort's coastal communities. The Vulnerability and Adaptation Study for Saint Lucia's Second National Communication (Government of Saint Lucia, 2010) highlights that the most vulnerable areas include coastal roadways in Vieux Fort, the airport runway, beachfront hotels in Vieux Fort, low lying coastal villages and Port Vieux Fort which located at approximately 1.5 m AMSL. Among anticipated impacts, the study reports that sea level rise leads to inundation of coastal regions and other lowlands, increased shoreline erosion, impacts on coastal infrastructure. Impacts of climate change on marine biodiversity include inundation of wetlands, erosion of beaches and intensified flooding. Maintaining the integrity of sandy beaches is noted to be of high vulnerability. Further:

“It has been concluded that the climate of Saint Lucia is changing. Critical infrastructure can be expected to be adversely impacted by sea level rise, stronger peak winds and worse flooding as a result of increased precipitation during cyclonic events of increased intensity.... Coastal low lying areas, the location of much of Saint Lucia's development and critical infrastructure, will be particularly vulnerable to combined effects of flooding as a result of precipitation and storm surge during hurricane events combined with sea level rise, which can be expected to have a greater effect over time. There are adverse implications for all sectors.” (Government of Saint Lucia, 2010, page 3)

Despite calls in the past for a technical assessment of natural hazards facing PSEPA and Vieux Fort, especially following the destruction and flooding associated with the Christmas Trough, no quantitative data exists about the threats to coastal communities from natural hazards or climate change. However, there have been other past events where the Vieux Fort River has flooded its banks and caused significant local flooding. For example, during Tropical Storm Debbie in 1994 when the Hewanorra Airport runway was covered with silt, tree trunks and other debris and required days of effort before it was reopened. This history of impacts also supports the need for the project.

Based on discussions during stakeholder consultations in 2014, both with key agencies at the national level and with local stakeholder representatives, key resources were identified as focal conservation targets in the PSEPA, two of which are of particular interest here - Anse du Sable (Sandy Beach) coastal zone and Bois Chadon coastal zone. Among the highest priority concerns, stakeholders perceived critical threats to the coastal zone to be:

- User conflict, multiple access roads and paths;
- Clearing and trampling of beach vegetation and sand mining causing dune destabilization;
- Heavy equipment usage on Bois Chadon beach;
- Clearing of beach vegetation and sand mining causing dune destabilization;
- Deterioration of coral reefs;
- Illegal cutting of mangroves;
- Coastal erosion and inundation;
- Dumping of solid waste in mangroves and coastal zone.

Visiting coastal zone management experts from GCFI during the management plan update agreed with community perception of real threats to dune stability and the well-founded concern about current coastal zone management practices in Vieux Fort and affecting PSEPA. As manager of PSEPA, it falls within SLNT's mandate to respond to local stakeholder concerns and ensure the sustainable development of PSEPA's natural resources by addressing recreational use zoning for Anse du Sable.

4.3. Project Goals and Purpose:

The purpose of the project is to pilot an integrated approach towards local sustainability and to build stakeholder participation (both public and private sector) and capacity related to local



sustainable development. The project goal is to demonstrate innovative approaches to the management of natural disasters, stormwater, solid waste, fresh water and energy. It will help the coastal communities along with the public and private sectors of Vieux Fort to pilot these approaches. The project goals are realistic and attainable within the period of performance given the impetus provided by the project and the injection of relevant technical assistance.

This project addresses:

- Priority 1 **Community-based Clean Energy and Energy Efficiency**. It will advance the use and adoption of energy efficient technologies, specifically those which could be adopted by lower income groups.
- Priority 2 **Resilience to Natural Hazards**. It will serve to strengthen Saint Lucia's capacity to successfully plan, manage and mitigate the risks associated to natural hazards at the community level, thereby contributing to their efforts to become more resilient.
- Priority 3 **Waste Management, Recycling (including Electronic Waste) and Improved Water Resource Management**. It will promote separation of waste and household and business-level composting. It will promote public-private partnerships for recycling of waste from PSEPA and adjoining businesses. It will conserve fresh water resources by demonstrating and promoting rain water harvesting.
- Priority 4 **Sustainable Transport Solutions**. It will address recreational use zoning for the main recreational zone of Vieux Fort, Anse du Sable, which is in the coastal zone of PSEPA. Through this, it will seek to reduce conflicts between users (pedestrians, bikes, cars, horseriders, beach users, watersports and local businesses) and to ensure the long term sustainability of use of the Anse du Sable coastal zone.

4.4. Project Outputs and Indicators:

Community-based Clean Energy and Energy Efficiency

The main output from this component of the project is the establishment of SLNT Southern Office as an energy efficient demonstration site, and the coordination of a series of visits by public and private sector representatives from the Vieux Fort area. Indicators will be the number of visits hosted by SLNT and the number of visitors to the site. SLNT southern office will also host presentations about clean energy and energy efficiency for Vieux Fort stakeholders. The indicators will be the number of expert agencies involved in making these presentations and number of stakeholders attending them.

Resilience to Natural Hazards

The main output of this component of the project is community understanding of coastal processes, the links between human actions and coastal erosion, and possible impacts of climate change on the Vieux Fort coastal zone, which will be leveraged to build support for dune stabilization measures such as re-vegetation and beach protection measures. The indicators will be the number of expert agencies involved in making relevant presentations, number of stakeholders attending them, and the area of beach/dunes that are re-vegetated and/or protected.

Waste Management, Recycling

The first output of this component of the project is a pilot composting project, which will be the first in the southern region of Saint Lucia. Indicators will be the number of businesses/homes collaborating in the pilot project, and the completion of a report on the implementation of the project to share about the experience.



The second output of this component of the project is the installation of waste collection bins and signage on Moule à Chique headland and on Anse du Sable coastal zone, with promotion of collaboration for waste collection.

Another output of this component is the establishment of new public-private partnerships and newly forged relationships to explore and support recycling of solid waste, including electronic waste. Indicators will be the number of meetings held with PSEPA, SLSWMA, Ministry of Environment, and local businesses, council and community representatives, with private sector recycling companies.

Improved Water Resource Management

The main output from this component of the project is the establishment of rain water harvesting demonstration site at SLNT southern office, and the coordination of a series of visits by public and private sector representatives from the Vieux Fort area, including local residents and school groups. Indicators will be the number of visits hosted by SLNT and the number of visitors to the site.

Sustainable Transport Solutions

The main output from this component of the project is the design of a recreational use zoning plan for the Anse du Sable coastal zone. Indicators will be the number of consultation meetings hosted by SLNT for preparation of the plan, the number of stakeholders attending them and the presentation of a zoning plan with associated map layers in the final report.

4.5. Project Activities and Methodology:

Community-based Clean Energy and Energy Efficiency

The north of Saint Lucia has been the focus of government efforts to date related to clean energy, renewable energy and energy efficiency, and there is an opportunity for SLNT to assist in sharing this experience with the south of the country and the communities of Vieux Fort. The Head Office of SLNT is currently equipped with photovoltaic panels and under this project we propose also installing an exterior solar lighting system and an energy efficient internal lighting system at the southern office of SLNT in Vieux Fort as a demonstration site for energy efficient technologies in use. We will then collaborate with the Energy Unit of the of the Ministry of Sustainable Development, Energy Science and Technology to promote clean and renewable energy in Vieux Fort, for example by facilitating presentations by the Energy Unit at SLNT southern office and hosting visits to the new demonstration site for stakeholders from the south, including those involved in local government, ports and airports, tourism and projects for renovation of Moule à Chique historical buildings.

Resilience to Natural Hazards

We will organize this component of the project around two duplicate community meetings with field visits for local stakeholder representatives to learn about coastal processes, impacts of human activity in the coastal zone, forecast impacts of climate change under different scenarios, and dune stabilization and coastal protection measures that can be taken in the immediate term and relevant government agencies. A local independent technical expert in coastal zone management will co-facilitate these meetings with SLNT, and there will be participation by representatives of relevant government agencies such as Ministry of Infrastructure, Ministry of Sustainable Development, and Town Council. Site visit(s) in the field will be incorporated into these meetings.

Prior to the stakeholder meetings, SLNT will hold a briefing meeting(s) with the coastal zone management expert and with the relevant local and national agencies. At this stage, GCFI will provide guidance on sensitivities of MPA management and advice on climate change scenarios planning.



After the meetings, SLNT will follow-up with relevant partners to initiate dune stabilization and coastal protection work in PSEPA, for example, to plant or transplant dune vegetation including native coastal species and to put in place protective measures that will restrict vehicle access to vulnerable areas. This will involve support from partner agencies and SLNT will seek to galvanize community support for volunteer planting efforts. The project includes communications materials and publicity to help raise awareness and understanding of these coastal protection measures.

Waste Management, Recycling

The landfill that serves Vieux Fort is located across the road from the Mankoté Mangroves which are part of the protected area of PSEPA and are a Ramsar site. In stakeholder meetings about threats to PSEPA and the environment of coastal communities, dumping in Mankoté Mangroves was identified as a priority issue by local stakeholders. The landfill is actively managed by SLSWMA, and waste disposal is free of charge. Yet there is a lack of awareness of this in the community and dumping persists. We see an opportunity to work with SLSWMA to build community awareness in Vieux Fort about responsible waste management, and since there is currently no recycling service at the Vieux Fort landfill, there is potential to help SLSWMA to take meaningful steps towards integrated solid waste management for the south of Saint Lucia. We will initiate discussions with SLSWMA and with private sector recycling enterprises, including for electronic waste where these exist). We will especially work with SLSWMA to pilot composting of vegetable/green waste by private businesses located in/adjacent to PSEPA and with local communities in coastal communities of Vieux Fort. SLSWMA already has experience in composting from a pilot project which was implemented in the north of the country, and SLNT will help them to bring this expertise for the first time to the south of the country, promoting composting at all levels and to various communities within the vicinity of the PSEPA. We will establish a pilot composting site at SLNT southern office.

Improved Water Resource Management

The SLNT southern office will be equipped with guttering and tanks to permit rain water harvesting from the building roof, and with piping for a dual system so that there is rainwater supply as well as the existing connection to Water and Sewerage Company (WASCO) for the office and grounds. This will make the SLNT southern office a demonstration site for rainwater harvesting and PSEPA will host visiting groups to learn about this approach and its potential for application for residential and commercial premises. In these activities on waste and water resource management, SLNT's southern office will provide a meeting point and venue for presentations and demonstrations. The office has an interpretive centre and meeting space, which provides an ideal setting for such activities. We will work with relevant experts and national agencies in this effort.

Sustainable Transport Solutions

SLNT will host a series of consultation meetings with stakeholder representatives and relevant agencies to help resolve user conflict in the coastal zone of Anse du Sable, to improve local transit and to shape the design of a recreational use zoning plan. The Town Council will play an important role in these meetings, building on efforts to date and continuing to work with stakeholder representatives who have participated well in consultation about PSEPA. Other key agency involvement will include the Ministry of Infrastructure and Royal Saint Lucia Police Force who will also be involved in implementation and achieving compliance with the zoning plan. Independent technical expertise will be provided by the coastal zone management expert, and an urban design professional will assist with the process of preparing plans and GIS map layers. The project includes communications materials (e.g. beach sign posting) to help support the implementation of the zoning plan. Complementary efforts under other projects to strengthen PSEPA enforcement and build compliance are an important element associated with this component of the project.



4.6. Logical Framework:

Narrative Summary	Performance Indicators	Means of Verification	Assumptions/Risks
<p>Goal <i>Overall long term development objective that the project will contribute to</i></p>	<p><i>Indicators to measure the general impact that the Project will have (long term).</i></p>	<p><i>Sources of information to verify if the Goal has been met.</i></p>	
<p>To contribute to the sustainability of coastal communities of Vieux Fort and of PSEPA by increasing resilience to natural hazards, and enhancing management of stormwater, solid waste, fresh water, energy and transit</p>	<p>Number of households/offices adopting energy efficient technologies, clean and renewable energy in Vieux Fort in 5 years; Area of coastal zone re-vegetated and/or protected; Number of pilot composting programs that are operating/expanded after 5 years; Reduction in number of warnings/infractions for dumping of rubbish in Mankoté Mangrove within 5 years; Number of households/offices with rain water harvesting tanks in Vieux Fort in 5 years; Zoning plan largely complied with in 5 years.</p>	<p>Records kept by Town Council and SLNT</p>	<p>Local capacity for collection of data, storage and reporting</p>
<p>Purpose <i>Statement of the project's outcome, it's immediate impact</i></p>	<p><i>Indicators to measure if the purpose was achieved</i></p>	<p><i>Sources of information to verify if the purpose has been achieved</i></p>	<p><i>Non-project factors required to ensure contribution to goal</i></p>
<p>To pilot an integrated approach towards local sustainability and to build stakeholder participation (both public and private sector) and</p>	<p>Number of sustainable pilot projects established in Vieux Fort; Number of public-private partnerships established in Vieux Fort for clean energy,</p>	<p>Final project report</p>	<p>Good weather to permit travel for meetings and for field visits; Staff retention; Willingness of relevant experts and agencies to participate in project</p>



capacity related to local sustainable development, and to demonstrate innovative approaches	recycling and water management; Number of participants involved in project activities.		activities; Willingness of stakeholders to participate in visits and attend presentations
Outputs <i>Specific results (deliverables) expected from the project to achieve the purpose</i>	<i>Indicators of project outputs in terms of quantity, quality, place and time</i>	<i>Sources of information to verify the level of achievement of project outputs</i>	<i>Condition for success required to achieve the purpose and within control of the project management.</i>
Energy efficiency site established at SLNT southern office	Energy efficient lighting system installed and operational at SLNT southern office within timeline of project	Photos, video, invoices	Timely placement of order for equipment; Contracting of expertise for installation; Training in operation and maintenance
Presentations about clean energy and energy efficiency for Vieux Fort stakeholders	Number of expert agencies involved in making presentations; Number of stakeholders attending presentations	Records kept by SLNT	Willingness of relevant experts and agencies to participate in project activities; Willingness of stakeholders to participate in visits and attend presentations
Community meetings about coastal zone processes, human impacts on the coastal, impacts of climate change and short-term mitigation measures	Number of expert agencies involved in making presentations; Number of stakeholders attending presentations	Records kept by SLNT	Coordination of effective briefing meeting with relevant experts; Contracting of suitable technical expertise; Willingness of relevant agencies to participate in project activities; Willingness of stakeholders to participate in visits and attend presentations
Dune re-vegetation undertaken and beach protection measures installed	Area of coastal zone re-vegetated and/or protected	Photos, video, maps	Willingness of relevant agencies to participate in project activities; Willingness of stakeholders to contribute as volunteers
Pilot composting project	Number of businesses/homes collaborating	Records kept by	Willingness of relevant local



	in the pilot project; Completion of a pilot project report.	SLSWMA	restaurants/householders to participate in pilot project
Waste collection bins installed on Anse du Sable	Number of bins installed and in use	Records kept by SLNT	Collaboration with NCA and/or private partners to ensure collection and appropriate disposal of waste
Establishment of new public-private partnerships for recycling	Number of meetings held with PSEPA, SLSWMA, Ministry of Environment, and local businesses, council and community representatives, with private sector recycling companies	Records kept by SLNT	Willingness of local private sector to participate in meetings
Presentations/communications about best practices in solid waste management for Vieux Fort stakeholders	Number of presentations/communications efforts	Records kept by SLNT	Willingness of relevant experts and agencies to participate in project activities; Willingness of stakeholders to participate in visits and attend presentations
Establishment of a rain water harvesting demonstration site at SLNT southern office	Rain water harvesting system installed and operational at SLNT southern office within timeline of project	Photos, video, invoices	Timely placement of order for equipment; Contracting of expertise for installation; Training in operation and maintenance
Presentations about water resource management for Vieux Fort stakeholders	Number of expert agencies involved in making presentations; Number of stakeholders attending presentations	Records kept by SLNT	Willingness of relevant experts and agencies to participate in project activities; Willingness of stakeholders to participate in visits and attend presentations
Stormwater drains cleared	Number and/or length of drains cleared	Photos, video, measurements by SLNT	Collaboration with relevant agencies
Consultation meetings about recreational use and zoning plan	Number of meetings held; Number of stakeholders attending meetings	Records kept by SLNT	Willingness of relevant agencies to participate in meetings; Willingness of stakeholders to



			participate in meetings
Recreational use zoning plan established	Zoning plan and GIS map layers developed	Copy in final project report	Contracting of expertise for development
<i>Activities Activities required to generate outputs</i>	<i>Budget for each output to be generated under the project</i>	<i>Sources of information to verify the level of achievement of project activities and the use of project funds.</i>	<i>Assumptions to achieve the outputs</i>
Energy efficient demonstration site established at SLNT southern office	\$7,250	Photos, video, invoices	Availability of equipment on time and in budget; Local expertise for installation; Local expertise in operation and maintenance
Presentations about clean energy and energy efficiency for Vieux Fort stakeholders	\$558	Records kept by SLNT	Willingness of relevant experts and agencies to participate in project activities; Willingness of stakeholders to participate in visits and attend presentations
Community meetings about coastal zone processes, human impacts on the coastal, impacts of climate change and short-term mitigation measures	\$5,488	Records kept by SLNT	Willingness of relevant agencies to participate in project activities; Willingness of stakeholders to participate in visits and attend presentations
Dune re-vegetation undertaken and beach protection measures installed	\$5860	Photos, video, maps	Willingness of relevant agencies to participate in project activities; Willingness of stakeholders to contribute as volunteers
Pilot composting project	\$670	Records kept by SLSWMA	Willingness of relevant local restaurants/householders to participate



			in pilot project
Installation of waste collection bins on Anse du Sable	\$2,083	Records kept by SLNT	Willingness of relevant agencies and private partners to collaborate
Establishment of new public-private partnerships for recycling	\$0	Records kept by SLNT	Willingness of local private sector to participate in meetings
Presentations/communications about best practices in solid waste management for Vieux Fort stakeholders	\$930	Records kept by SLNT	Participants motivated to attend meetings and contribute; Data inputs are adequate for modeling and simulation
Establishment of a rain water harvesting demonstration site at SLNT southern office	\$2,046	Photos, video, invoices	Availability of equipment on time and in budget; Local expertise for installation; Local expertise in operation and maintenance
Presentations about water resource management for Vieux Fort stakeholders	\$558	Records kept by SLNT	Willingness of relevant experts and agencies to participate in project activities; Willingness of stakeholders to participate in visits and attend presentations
Stormwater drains cleared	\$4,687	Photos, video, measurements by SLNT	Collaboration with relevant agencies
Consultation meetings about user conflict, local transit and recreational use and zoning plan	\$558	Records kept by SLNT	Willingness of relevant agencies to participate in meetings; Willingness of stakeholders to participate in meetings
Recreational use zoning plan established	\$1,600	Copy in final project report	Contracting of expertise for development
Project coordination by SLNT assistant	\$6,696	Staffing contract and pay confirmation from SLNT human	Existence of local candidates with suitable capacity



		resources	
Communications	\$1,000	Copies of materials and PR	Press interest in featuring project activities

4.7. Time frame / work plan: Develop a work plan using the template below. Indicate when activities, milestones and outputs will be accomplished, as well as responsible person and indicator. The proposed work plan should be consistent with the technical approach and methodology, showing understanding of the Terms of Reference and ability to translate them into a feasible working plan. A list of the final documents, including reports, presentations, outreach material to be delivered as final output, should be included here in the column “Output”.

Work Plan																			
Activity	Output	Months 2014-2015												Responsible	Indicator	Budget			
		1	2	3	4	5	6	7	8	9	10	11	12			OAS Funds	Co-Financing	Total (US\$)	
1. Clean Energy/Energy Efficiency																			
1.1 Energy efficient demonstration site established at SLNT southern office	Photos, video, invoices														S. Simmons	Number of visits, visitors	7250	356	7606
1.2 Presentations about clean energy and energy efficiency for Vieux Fort stakeholders	Attendance records														S. Simmons	Number of visits, visitors	558	1591	2149
2. Resilience to Natural Hazards																			
2.1 Community meetings about coastal zone processes, human impacts on the coastal, impacts of climate change and short-term mitigation measures	Meeting minutes														C. Henry	Meeting on time and in budget	5488	3537	9025
2.2 Dune re-vegetation undertaken and beach protection measures installed	Map layers showing areas re-vegetated and/or protected														Consultant	Summary report on threats	5860	9705	15565
3. Solid Waste, Recycling																			
3.1 Pilot composting project	Photos, video														C.Henry	Number of meetings	670	3008	3677
3.2 Installation of waste collection bins on Anse du Sable	Photos, video, invoices, PPP														C.Henry	Number of businesses/ homes collaborating in pilot	2083	532	2615
3.3 Establishment of new public-private partnerships for recycling	PPP														C.Henry	Number of businesses/ homes collaborating in pilot		402	402
3.4 Presentations/communications about best practices in solid waste management for Vieux Fort	Attendance records														C.Henry	Number of businesses/	930	1512	2442



stakeholders												homes collaborating in pilot					
4. Water																	
4.1 Establishment of a rain water harvesting demonstration site at SLNT southern office	Photos, video, invoices												C.Henry	Number of visits hosted by SLNT and the number of visitors to the site	2,046	56	2102
4.2 Presentations about water resource management for Vieux Fort stakeholders	Attendance records												S. Simmons	Number of visits, visitors	558	1512	2070
4.3 Stormwater drains cleared (timed just before start of wet season)	Photos, video												S. Simmons	Number and/or length of drains cleared	4687	8987	13675
5. Transport/Transit																	
5.1 Consultation meetings about user conflict, local transit and recreational use and zoning plan	Attendance records												C.Henry	Number of visits hosted by SLNT and the number of visitors to the site	558	6818	7376
5.2 Recreational use zoning plan established	Map layers showing permitted uses and access ways												C.Henry	Number of visits hosted by SLNT and the number of visitors to the site	1600		1600
6. Project Coordination																	
6.1 Recruitment of project assistant	Selected candidate												B. Tulsie	Staffing contract		361	361
6.2 Employment of project assistant	Project assistant in active employment												B. Tulsie	Pay confirmation from SLNT	6696		6696
6.3 Communications	Press notes, interviews announcements, materials (posters, sign posts, fact sheets, website, blog, videos etc)												C. Henry	Copies in final report	1000		1000
														Total:	39,983	38,378	78,361



4.8. Monitoring and Evaluation:

Progress will be monitored by maintaining close oversight by project team, with regular progress reviews towards milestones. Participant evaluations will be requested for consultation and review meetings.

4.9. Gender Sensitivity and Community Inclusiveness:

SLNT has been involved in the implementation of several projects within the PSEPA over the last two decades. Some of these projects have had natural resources conservation focus while others have focused on livelihood groups which operate within the PSEPA. During the implementation of these projects SLNT has had to engage various stakeholder groups using diverse strategies including public awareness activities, stakeholder consultations, workshops and training programs. The implementation of this project will necessarily involve community level stakeholder where there needs to be significant understanding and ‘buy in’ of the processes involved coastal assessment and management.

SLNT’s relationship with stakeholders in Vieux Fort has matured to the point whereby we have compiled a comprehensive database of stakeholders who can be invited to participate in meetings and contribute to management decision making. PSEPA’s recently updated and re-activated governance structure is based on a bottom up and participative approach to coastal management. The existence of these established management groups will enable us to achieve a high level of community inclusiveness. PSEPA’s Management Team and Local Stakeholder Committee will be invited to participate in this project, thus ensuring that the project is inclusive of all stakeholder groups.

SLNT is an equal employment provider and the project team will include men and women, as do PSEPA’s Management Team and Local Stakeholder Committee.

4.10. Team Composition and Task Assignment:

Name of staff	Organization	Area of expertise	Position assigned	Task/s assigned
Bishnu Tulsie	SLNT	Sustainable Development	Project Chair	Oversee project implementation with reference to contractual commitments; Project financial administration; Chair for consultation and review meetings
Craig Henry	SLNT	PSEPA/Vieux Fort	Project Coordinator	Coordinate project development; SLNT point person to maximize synergies with partners
Shirlene Simmons	SLNT	Protected area management	Project Advisor	Contribute protected areas and conservation perspective to project
Name to be determined	SLNT	Project management	Project Assistant	Logistics of meeting organization; Maintain stakeholder contact list; Day-to-day communication with Consultant; Assist with data collection from



				SLNT
Emma Doyle	GCFI	Coastal zone management	Technical Reviewer	Technical liaison with SLNT and Consultant throughout; Assist networking with relevant experts; MPA guidance for community meetings

4.11. CVs of Proposed Staff: Please see Annex 2.

5. Budget (2 pages):

	Requested Budget OAS (US\$)	Contribution from Other Sources (US\$)	Total (US\$)
1.1 Energy efficient demonstration site established at SLNT southern office			
Equipment and supplies	6500		
Installation	750		
Oversight of project by SLNT team (2 days C. Henry at XCD150 per day)		56	
Staff training in operation and maintenance (2 days, C.Henry at US\$150 per day)		300	
Sub-total	7250	356	7606
1.2 Presentations about clean energy and energy efficiency for Vieux Fort stakeholders			
Co-facilitation of 2 presentations by relevant agency Energy Department Officer (2 days meetings, 3 days preparation at XCD210 per day)		391	
Meeting venue, use of projector		1200	
Meeting hosting 2*XCD500	372		
Materials 2*XCD250	186		
Sub-total	558	1591	2149
2.1 Community meetings about coastal zone processes, human impacts on the coastal, impacts of climate change and short-term mitigation measures			



Internal briefing for expert (1 day at US\$500 per day) with SLNT and GCFI (1 day at US\$500 per day, travel at US\$750 airfare and US\$250 hotel), field visit (XCD500), Sustainable Development Department Officer and Town Council Officer (both 1 day at XCD210 per day)	2186	156	
Stakeholder representative meeting with expert (1 day at US\$500 per day), SLNT, GCFI (1 day at US\$500 per day) and partner agencies, field visit (XCD500), Sustainable Development Department Officer (1 day meeting, 1 day follow-up at XCD210 per day), Town Council and Ministry of Infrastructure (both 1 day at XCD 210), plus urban design consultant (1 day at US\$500 per day, via ECMMAN)	1186	712	
Expert co-facilitation of public community meeting (1 day at US\$500 per day), participation of GCFI (1 day at US\$500), field visit (XCD500), Sustainable Development Department Officer (1 day meeting, 1 day follow-up at XCD210 per day), Town Council and Ministry of Infrastructure (both 1 day, 1 day follow-up at XCD 210), plus urban design consultant (1 day at US\$400 per day, via ECMMAN)	1186	869	
Field visit for community meetings (2*XCD500)	372		
Meeting venue, use of projector		1800	
Meeting hosting 2*XCD500	372		
Materials 2*XCD250	186		
Sub-total	5488	3537	9025
2.2 Dune re-vegetation undertaken and beach protection measures installed			
Materials (plants, boulder, logs, soil)		1800	
Transport of materials		600	
Equipment for volunteer planting		298	
Establishment of nursery bed at SLNT southern office XCD 1500		558	
Sea grape rehabilitation XCD3000		1116	
Sign posting XCD4000		1488	



Involvement of SLNT project team (2 days, C. Henry at XCD150 per day, 2 days S. Simmons at XCD\$210 , 2 days B. Tulsie at XCD250, 2 days government officers at XCD210)		610	
Training of field officers and local enforcement partners to build compliance (GCFI \$7195, ECMMAN US\$1900)		9095	
Sub-total	5860	9705	15565
3.1 Pilot composting project			
Meetings with SLSWMA (3 days C. Henry at XCD150, 3 days SLSWMA Officer at XCD210 per day)		402	
Materials (plastic cover) XCD300	112		
Labour (Groundsman 60 XCD per day 1 day a week for 40 weeks)		893	
Oversight of project by SLNT team (2 days C. Henry at XCD150 per day)		112	
Co-facilitation of demonstrations for stakeholders (3 days C. Henry at XCD150, 3 days SLSWMA Officer at XCD210 per day)		402	
Meeting venue, use of projector		1200	
Meeting hosting 2*XCD500	372		
Materials 2*XCD250	186		
Sub-total	670	3008	3677
3.2 Installation of waste collection bins on Anse du Sable			
Meetings with SLSWMA and private contractors (3 days C. Henry at XCD150, 3 days SLSWMA Officer at XCD210 per day)		402	
Materials (4 bins @ XCD250 each) plus \$150 per bin for painting, chains, locks etc	595		
Labour for installation (Town Council 2 staff for 2 days at XCD50 per day)		74	
Oversight of placement of bins (C. Henry 1 day at XCD150 per day)		56	
Sign posting XCD4000	1488		
Sub-total	2083	532	2615



3.3 Establishment of new public-private partnerships for recycling			
Meetings with SLSWMA and private contractors (3 days C. Henry at XCD150, 3 days SLSWMA Officer at XCD210 per day)		402	402
3.4 Presentations/communications about best practices in solid waste management for Vieux Fort stakeholders			
Co-facilitation of 2 presentations for stakeholders Sustainable Development Department Officer (2 days meetings, 2 days preparation at XCD210 per day)		312	
Field visit to Mankoté Mangroves (2*XCD500)	372		
Meeting venue, use of projector		1200	
Meeting hosting 2*XCD500	372		
Materials 2*XCD250	186		
Sub-total	930	1512	2442
4.1 Establishment of a rain water harvesting demonstration site at SLNT southern office			
Equipment and supplies (1000 gallon water tank (XCD2,300); fittings (XCD200); XCD2,000 for pump)	1,674		
Installation (XCD 1000)	372		
Staff training in operation and maintenance (1 day, C.Henry at XCD150 per day)		56	
Sub-total	2,046	56	2102
4.2 Presentations about water resource management for Vieux Fort stakeholders			
Co-facilitation of 2 presentations for stakeholders Sustainable Development Department Officer (2 days meetings, 2 days preparation at XCD210 per day)		312	
Meeting venue, use of projector		1200	
Meeting hosting 2*XCD500	372		
Materials 2*XCD250	186		



Sub-total	558	1512	2070
4.3 Stormwater drain clearance			
Labor 4 persons @ XCD80 a day for 10 days	893		
Excavator XCD 350/hr for 3 days	3125		
Backfill truck XCD300 per trip for 6 trips	670		
Oversight by SLNT team (3 days C.Henry at XCD150 per day)		167	
Public outreach - PSEPA clean-up campaign, community meetings, public announcements (ECMMAN)		8820	
Sub-total	4687	8987	13675
5.1 Consultation meetings about user conflict, local transit and recreational use and zoning plan			
Co-facilitation of 2 meetings with stakeholders (urban design expert at US\$400 per day), Town Council Officer (2 days meetings, 2 days preparation, 2 days follow-up at XCD210 per day), C. Henry (2 days meetings, 2 days preparation, 2 days follow-up at XCD150 per day), S. Simmons (2 days meetings, 2 days preparation, 2 days follow-up at XCD210 per day), B. Tulsie (2 days meetings, 2 days preparation, 2 day follow-up at XCD250 per day)		1830	
Meeting venue, use of projector		1200	
Meeting hosting 2*XCD500	372		
Materials 2*XCD250	186		
Conflict resolution training/meetings (ECMMAN)		3788	
Sub-total	558	6818	7376
5.2 Recreational use zoning plan prepared and mapped by urban design consultant (4 days @US\$400 per day)	1600		1600
6.1 Recruitment of project assistant by SLNT team (2 days C. Henry at XCD150 per day, 2 days S. Simmons at XCD210 per day, 1 day B. Tulsie at XCD250 per day)		361	361



6.2 Employment of project assistant	6696		6696
6.3 Communications	1000		1000
Total	39,983	38,378	78,361



Annex 1: Please follow link for copy of the National Trust Act of 1975

http://www.slunatrust.org/assets/content/documents/SLNT_Act.pdf

Annex 2: CVs for Project Team

CURRICULUM VITAE

NAME : Bishnunarine Tulsie

ADDRESS : c.o. Saint Lucia National Trust
Pigeon Island National Landmark
PO Box 595, Castries
Saint Lucia
Tel: (W) (758) 452 5005
(H) (758) 452 8410
(M) (758) 720 3463
Fax: (758) 453 2791
Email: btulsie@gmail.com

EDUCATION/TRAINING:

1977 : B. Sc. - University of Guyana (Mathematics and Physics).
1979 : Post Graduate Diploma in Education – University of Guyana.
1987 : Level 1 of the Chartered Association of Certified Accountants.
1990 : Certificate in Business Administration – University of the West Indies.
1995 : Certificate in Project Preparation and Management – Caribbean Development Bank.

EMPLOYMENT RECORD:

1967 – 1980 : Various teaching positions in Guyana and Saint Lucia
1981 – 1990 : Vice Principal, Castries Comprehensive Secondary School.
1990 – 1995 : Environment, Energy, Science and Technology Planning Officer, Ministry of Planning, Saint Lucia.
1995 – 2005 : Chief Sustainable Development and Environment Officer, Ministry of Physical Development, Environment and Housing, Saint Lucia.
2005 - Present : Director, Saint Lucia National Trust

KEY OTHER WORK EXPERIENCES:

1. Education:

- a) Coordinator, adult education programme in Castries, Saint Lucia from 1984 – 1990;



- b) Coordinator, in-service teacher training programme, Saint Lucia from 1985 – 1990;

2. Environment:

- a) Development of the Environment portfolio for the Ministry of Planning, Government of Saint Lucia;
- b) Chief negotiator and Head of Delegation for the Government of Saint Lucia to Meetings of Parties to the United Nations Framework Convention on Climate Change (UNFCCC), the Basel Convention on the Trans-boundary Movement on Hazardous Wastes and their Disposal, the Vienna Convention for the Protection of the Ozone Layer and the Montreal Protocol on Substances that Deplete the Ozone Layer.
- c) Advisor to the national GEF Political and Technical Focal Points;
- d) Member of the national team for the preparation of the National Biodiversity Strategy and Action Plan; Saint Lucia's Climate Change Policy and Adaptation Strategy; National Land Policy.
- e) Team Leader for national preparations for Rio+10 and SIDS+10
- f) Lead Author for Saint Lucia's first State of the Environment Report
- g) Coordinator for the preparation of Saint Lucia's first National Environment Policy and National Environment Management Strategy
- h) A Lead Author for the Special Report on Safeguarding the Ozone Layer and the Global Climate System, prepared by the Intergovernmental Panel on Climate Change (IPCC) and the Technology and Economic Assessment Panel (TEAP);
- i) Overall responsibility for the Preparation of Saint Lucia's First National Communications to the UNFCCC
- i) Execution of various World Bank, Organisation of American States and Global Environment Facility projects.
- j) Facilitator for national and regional level training on Environmental Monitoring and Reporting.

3: Energy:

- b) Team Leader for the Preparation of Saint Lucia's Sustainable Energy Plan and National Energy Policy
- c) Creation of policy framework for incentives to promote energy efficient and renewable energy technologies;
- d) Preparation of project proposals for projects in wind and solar photovoltaic energy, energy efficiency and energy conservation;

4. Sustainable Development:

- a) Conceptualization and preparation of a long term National Sustainable Development Strategy for Saint Lucia, consistent with the United Nations Millennium Development Goals.

5. Director: Saint Lucia National Trust



- a) Strategic Planning
- b) Human Resource management and development
- c) Fund raising and financial management
- d) Heritage Conservation
- e) Advocacy
- f) Project planning and execution, including execution of various GEF, World Bank, Critical Ecosystem Partnership Fund and Caribbean Challenge projects

6. Special Positions Held:

- a) Executive Secretary, National Council for Science and Technology;
- b) Executive Committee Member for the Commonwealth Science Council (1998 – 2000);
- c) Chairman, Caribbean Council for Science and Technology (2000 – 2004);
- d) Vice President, Bureau of the Thirteenth Meeting of the Meeting of Parties to the Montreal Protocol;
- e) Member of the Executive Committee of the Multilateral Fund (2002 – 2004) ;
- f) Interim Chairman, National Metrication Board (2003-05).
- g) Member representing the Environmental Portfolio on the National Economic and Social Consultative Council (2007 – 2011)
- h) National Focal Point for the GEF Small Grants Programme in Saint Lucia (2006 – present)
- i) Vice Chair of the National Environmental Commission of Saint Lucia (2008 – present)
- j) Member of the Tourism Advisory Council of Saint Lucia (2009 - 2011)
- k) Member of the Architects Registration Board (2012 – present)
- l) Member of the National Vision Commission (2014)

7. Consultancies undertaken:

a) UNEP

- i. Quality reviewer for the preparation of a Global Handbook for the Training of Customs Officers in the enforcement of Montreal Protocol regulations;
- ii. Delivery of Customs training in enforcement of environmental regulations in the CARICOM region.
- iii. Preparation of national plans to ensure compliance with the Montreal Protocol for countries in the English speaking Caribbean, Belize and Suriname;
- iv. Coordinator of the National Capacity Needs Assessment for Global Environmental management (NCSA) process in St. Lucia;
- v. Monitoring and Evaluation of Multilateral Fund projects in St. Kitts, Dominica, St. Vincent and the Grenadines, Grenada and Saint Lucia

b) UNDP

- i. Preparation of Ozone Layer Protection investment projects for the Governments of Barbados and Suriname.



- ii. Preparation of Technical paper on Climate Change Mitigation in Saint Lucia: Opportunities and Challenges

c) Environment Canada:

- i. Review and update of national plans to ensure compliance with the Montreal Protocol for Saint Lucia and Belize.

d) Government of Saint Lucia:

- i. Preparation of the National Circumstances Report of Saint Lucia's Second National Communications to the UNFCCC
- ii. Coordinator: Vulnerability and Adaptation to Climate Change – Saint Lucia Second National Communications to the UNFCCC
- iii. Coordinator: National Capacity Needs Self Assessment for Global Environmental Management (NCSA) for Saint Lucia.
- iv. Project Monitoring and Reporting services for the Quick Start Chemicals management project and for implementation of the project to Phase out the use of Ozone depleting Substances in Saint Lucia.

e) International Institute for Sustainable Development:

- i. Report on Saint Lucia's experience with Integrated Development Planning
- ii. Member: Latin America and Caribbean Network for National Integrated Planning, Strategic Management and Sustainable Development Strategies
- iii. Facilitator for training workshops on State of Environment Reporting
- iv. Manager, Sustainable Development Planning Network for Latin America and the Caribbean (SDplanNet-LAC)

f) European Union

Preparation of the Identification Fiche for a project to Strengthen the Resilience of Organisation of Eastern Caribbean States (OECS) Member States to the Impacts of Climate Change through the Improved Sustainable Land Management Practices, to be funded by the Global Climate Change Alliance.

8. Peer Reviewed Publications:

- i. Lead Author: IPCC Special Report on Safeguarding the Ozone Layer and the Global Climate System
- ii. Earth Resources Forum: Saint Lucia's Experiences with Preparing a National Sustainable Development Strategy

9. Awards and Recognition:

- i. 2006: Minister of Environment Award for contribution to Ozone Layer Protection
- ii. 2007: Montreal Protocol Implementers Award;



- iii. 2007: Recognition by the IPCC for contributing its award of the 2007 Nobel Prize.



Mr. Craig Henry
2^A The Line, Micoud
Saint Lucia, West Indies
Contact: (758) 454-4990 or (758) 720-0299
Email: craighenry4@gmail.com

Qualifications

The University of the West Indies, St. Augustine, Trinidad and Tobago
Institute of International Relations 9/2008 – 6/2009
Master of Science (MSc.) International Relations
(Distinction)
Thesis: A Critical Analysis of Emerging Security Issues and the Implications for Sustainable Development in the Caribbean: A focus on Environmental Security.
Courses taken include: Multilateralism and Global Governance; Contemporary International Diplomacy; International Economic Law; International Trade, Development and Global Integration; Small States in the Global System and Advanced Theory and Methodology: Globalization and Development.

The University of the West Indies, St. Augustine, Trinidad and Tobago
Department of Behavioural Sciences 9/2003 – 6/2006
Bachelor of Sciences (BSc.) Psychology, (Minor) International Relations
(First Class Honours)
Courses taken include: Introduction to Sociology 1; Introduction to Social Psychology 1&11; Behavioural Psychology; International Organizations and International Financial Organizations.

Sir Arthur Lewis Community College, Castries, St. Lucia
Division of Teacher Education and Educational Administration 9/1999 –
7/2001
Associates Degree in General Teacher Training

The University of the West Indies, Cave Hill, Barbados
Faculty of Humanities 9/1999 – 7/2001
Certificate in Primary Teaching

Sir Arthur Lewis Community College, Castries, St. Lucia
Division of Arts, Science and General Studies 9/1994 – 7/1996
Associates Degree in Arts with specification in Sociology and French

Work Experience

Programme Officer- South September 2013
Saint Lucia National Trust

Responsible for the Trust's mandate in the south of the country which encompasses issues related to preservation and conservation of natural and physical resources of immense historical, environmental and cultural value; working with various interest groups to maintain the ecological integrity of protected areas (terrestrial and marine reserves) through consultations;



assisting community groups in the preparation of project proposals to attract funding to sustain livelihoods within protected areas to promote sustainable development.

Project Coordinator- Effective Chemicals Management in Saint Lucia Project 2012 – 2013

Ministry of Sustainable Development, Energy, Science and Technology

Project focused on building capacity for more effective chemicals management in Saint Lucia. Main responsibilities included organising various training workshops; recruiting Consultants to effectively execute Project implementation; disseminating Project reports and other essential data to stakeholders.

Teacher- Micoud Primary School, Micoud, Saint Lucia 9/1996 – 7/1999 and 9/1999 – 7/2003

Guest Lecture

The University of the West Indies, St. Augustine, Trinidad and Tobago

Department of Behavioural Sciences

2008 – 2009

Undergraduate Level Course: Foreign Policy of the Third World

Presentations: (i) What is Foreign Policy? (ii) Domestic and External Influences of Foreign Policy

Skills

Excellent oral and writing communication skills

Information and Communications Technology Competencies

Sound knowledge and competent in the use of Microsoft Office Tools

Exceptional internet navigation and research skills

Languages

Excellent Literacy skills in English

Moderate Literacy skills in French

Verbally competent in French-Creole

Leadership Positions

Council Member

Micoud Village Council, Micoud, Saint Lucia

12/2007 –

8/2008

Vice President

Micoud Youth and Sports Council, Micoud, Saint Lucia

4/2007 – 8/2008

International Affairs Chairperson

5/2005 – 4/2006

The University of the West Indies, St. Augustine, Trinidad and Tobago

Guild of Students



Emma Doyle

6510 Carrizo Falls Court
Houston, Texas 77041, USA
Tel: +1-832-598 2838

Email: emma.doyle@gcfi.org, emmacaracas1@hotmail.com

Summary

- Environmental management professional with 15 years' project management experience in Latin America and the Caribbean covering some 75 international cooperation projects, including projects related to marine protected areas, biodiversity conservation, sustainable development, outreach and education and marine and coastal tourism.
- Twelve years' experience in grant-making, monitoring and administration of grants in the Caribbean region.
- Board member of Caribbean regional non-profit organization the Gulf and Caribbean Fisheries Institute.
- Four years' experience as representative of a diplomatic mission and active participant in bilateral and multilateral cooperation initiatives.
- Experienced researcher, strategic planner and author of reports, briefs and papers.
- Trainer for short courses and facilitator of workshops.

Professional Experience

Current

Workshop Facilitator, Sustainable Grenadines Inc. (SusGren) for the Fourth Annual Meeting of the Grenadines Network of Marine Protected Areas under the project 'Strengthening Reef Management in the Grenada Bank – Phase II' funded by the US National Fish and Wildlife Foundation.

Project Manager, Support to Priority Caribbean Marine Protected Areas for the Gulf and Caribbean Fisheries Institute in partnership with the National Oceanic and Atmospheric Administration (NOAA) Coral Reef Conservation Program (CRCP).

Project Manager, Gulf and Caribbean Fisheries Institute for the project 'Implementing Capacity Building in the Mesoamerican Reef Marine Protected Areas Community', a Cooperative Agreement with the National Oceanic and Atmospheric Administration (NOAA) Coral Reef Conservation Program (CRCP).

2013

Workshop Facilitator, Sustainable Grenadines Inc. (SusGren) for the Third Annual Meeting of the Grenadines Network of Marine Protected Areas under the project 'Sharing Best Management Practices for Coral Reef and Mangrove Conservation in the Grenadines' funded by the Western Hemisphere Migratory Species Initiative of the Organization of American States.

Consultant, WWF-MAR for the Inventory of Geographical Distribution and Conservation Status of Marine Turtles and Sharks in the Wider Caribbean and Relationship to Fisheries, funded by WWF-NL.

Consultant, Grenada Fund for Conservation for Marine Protected Areas Enforcement Training and Development of Pilot School Education Programme, with sponsorship from US National Fish and Wildlife Foundation.

Consultant, Total Tourism Solutions for the Development of a Sustainable Tourism Model for the Exuma Cays Land and Sea Park as part of the Bahamas National Trust (BNT) GEF Full Size Project 'Building a Sustainable National Network of Marine Protected Areas – The Bahamas'.

2012



Consultant, Tobago Cays Marine Park for the Development of a Strategic Plan, St Vincent and the Grenadines.

Coordinator, Peer-to-Peer workshop on Law Enforcement for Caribbean Marine Protected Areas at the Florida Keys National Marine Sanctuary for the Gulf and Caribbean Fisheries Institute in partnership with NOAA's Coral Reef Conservation Program.

Workshop Facilitator, Sustainable Grenadines Inc. (SusGren) for the second annual MPA networking meeting of the Grenadines Network of MPAs under the project 'Strengthening Reef Management in the Grenada Bank' funded by the US National Fish and Wildlife Foundation.

2011

Consultant, Dutch Caribbean Nature Alliance (DCNA) for the Development of a Framework for Nature Education by Protected Areas and Conservation Organizations in the six Dutch Caribbean islands.

Organizer, Peer-to-Peer Workshop on Sustainable Financing Strategies for Caribbean Marine Protected Areas at the 64th Annual Meeting of the Gulf and Caribbean Fisheries Institute for the Caribbean Marine Protected Areas Network and Forum (CaMPAM), Puerto Morelos, Mexico.

Workshop Facilitator, Sustainable Grenadines Inc. (SusGren) for the first MPA networking meeting of the Grenadines MPAs under the project 'Building stronger linkages among Marine Protected Areas on the Grenada Bank' funded by the US National Fish and Wildlife Foundation.

Team Member, Caribbean Coral Reef Marine Protected Areas Management Capacity Assessment, commissioned by the Caribbean Marine Protected Areas Network and Forum (CaMPAM), the National Oceanic and Atmospheric Administration's (NOAA) Coral Reef Conservation Program (CRCP), and the Gulf and Caribbean Fisheries Institute (GCFI).

2010-2011

Project Officer, Caribbean Marine Protected Areas Network and Forum (CaMPAM) for the project 'Regional support for the Caribbean Challenge initiative: Networking, consolidation and regional coordination of MPA management' in Antigua and Barbuda, The Bahamas, Dominican Republic, Grenada, Jamaica, St. Kitts and Nevis, St. Lucia and St. Vincent and the Grenadines, funded by the Directorate General for Development Cooperation of the Italian Ministry of Foreign Affairs.

2010

Project Manager, WIDECAS - Sea Turtle Assessment and Capacity Building Project in the Tobago Cays Marine Park, St. Vincent and the Grenadines funded by OECS-OPAAL.

Co-organizer, WWF/WIDECAS/ GCFI training course 'Incorporating climate adaptation into marine turtle conservation: strengthening capacity for planning and implementation', San Juan, Puerto Rico funded by the Western Hemisphere Migratory Species Initiative of the Organization of American States.

2009-2011

Project Manager, Gulf and Caribbean Fisheries Institute for the project 'Reducing Marine Litter in the Wider Caribbean: Developing and Implementing Best Waste Management Practices', funded by the US Department of State.

Assistant Coordinator, the Caribbean Marine Protected Areas Management Network and Forum (CaMPAM)

2002-2007

Cooperation Fund Manager, British Embassy, Caracas

1994-2000

Lecturer in Intercultural Management, The Royal Institute for the Tropics, Amsterdam



1995-1997

Project Manager, The Netherlands Institute for Public Opinion, Amsterdam

1992-1994

Project Manager, Market Research Department, Procter & Gamble Australia/New Zealand

1988-1991

Public Relations Person, Waratah Wildlife Park, Sydney

Advisory Role

- Chair of Communications Committee, Gulf and Caribbean Fisheries Institute
- Senior Advisor on Marine Protected Areas and Sea Turtle Monitoring for the Wider Caribbean Sea Turtle Conservation Network (WIDECAST)
- Advisor on International Communications for the Venezuelan Centre for the Research and Conservation of Sea Turtles (CICTMAR)

Publications and Presentations

- An Assessment of the Geographical Distribution and Conservation Status of Marine Turtles and Sharks in the Wider Caribbean and Relationship to Fisheries, WWF-CMA Internal Report, 2013.
- 'Marine litter in the Caribbean: Raising Awareness, Improving Infrastructure and Encouraging Action', co-authored with Tom Matthews (GCFI), presented at 64th GCFI, Puerto Morelos, Mexico.
- Gombos, M., A. Arrivillaga, D. Wusinich-Mendez, B. Glazer, S. Frew, G. Bustamante, E. Doyle, A. Vanzella-Khouri, A. Acosta, and B. Causey. 2011. A Management Capacity Assessment of Selected Coral Reef Marine Protected Areas in the Caribbean. Commissioned by the National Oceanic and Atmospheric Administration (NOAA) Coral Reef Conservation Program (CRCP), the Gulf and Caribbean Fisheries Institute (GCFI) and by the UNEP-CEP Caribbean Marine Protected Area Management Network and Forum (CaMPAM).
- 'Sharing Best Practices through a Marine Protected Areas Network as a Pathway to Sea Turtle Conservation', co-authored with Dr. Karen Eckert (WIDECAST) and Sharon Gulick (OECS), presented at the 31st International Symposium on Sea Turtle Biology and Conservation
- 'Sea Turtle Assessment in the Tobago Cays Marine Park', co-authored with Dr. Karen Eckert (WIDECAST) and Olando Harvey (Tobago Cays Marine Park), presented at the 30th International Symposium on Sea Turtle Biology and Conservation
- 'The Role of an MPA Network in Marine Debris Reduction in the Wider Caribbean Region', presented at the 2011 5th International Marine Debris Conference, Hawaii
- Eckert, K. and E. Doyle. 2010. Sea Turtle Assessment, Tobago Cays Marine Park (St. Vincent and the Grenadines). Final Report Submitted 22 October 2010. OECS Environment and Sustainable Development Unit OPAAL Project.
- Buitrago, J., H.J. Guada and E. Doyle. Conservation Science in Developing Countries: An Inside Perspective on the Struggles in Sea Turtle Research and Conservation in Venezuela. **Environmental Science and Policy**, 2008.
- Doyle, E. 1998. Book Review. Collaborative Planning: Shaping Places in Fragmented Societies. **European Journal of Agricultural Education and Extension**, 5(3): 221-230.
- English Editor - T. Mendelovici. 2005. Venezuelan International Ecotourism Conference 2003 – Ecotourism and Adventure Travel: World Innovations and New Experiences. **Journal of Ecotourism**, 4(1):65-69.
- English Editor - Conservation and Sustainable Development in Venezuela 1992-2002: Civil Society's Views on the Implementation of Agenda 21. Vitalis report to the Johannesburg **World Summit on Sustainable Development**.



- English Editor - Fijns, J. and J.M. Malombe. 1997. Cleaner Production and Small Enterprise Development in Kenya. Centre for the Urban Environment, Rotterdam.

Education

- **Master of Science with Distinction** in Environmental Management (1999), Wageningen Agricultural University, The Netherlands. Masters thesis 'An Evaluation of Stakeholder Participation in Planning for an Environmentally Sensitive Energy Development Project in Peru'.
- **Bachelor of Science with Honors** (1991), University of Sydney. Major in environmental geography. Honors thesis 'Planning for Ecotourism Development in the Coastal Zone of Northern New South Wales'.

Languages

- English (native speaker), Spanish (good) and Dutch (good)

Other Skills

- Advanced SCUBA diver, proficient birdwatcher and guide
- Licensed power boat driver, experienced sailor, holder of full driving license