

Logical Framework for the project

Annex C

	Intervention logic	Objectively verifiable indicators* of achievement	Sources and means of verification	Assumptions
Overall objectives	<p>Improve the sustainability of the energy sector by catalyzing the development of environmentally sound renewable energy technologies and more efficient use of energy in all sectors of the economy to improve socio-economic conditions of the island communities in the Caribbean.</p> <p><i>Project countries include: St. Lucia, Dominica, Grenada, St. Kitts & Nevis, St. Vincent & the Grenadines, Antigua and Barbuda, and The Bahamas</i></p>	<p>Increased sustainability of the electric sector as evidenced by annual reductions in electricity rates (US\$/kWh), increases in both the reliability of the electrical system (reduction in number of blackouts per month or available electricity per day), the security of the energy supply (decrease in Government expenditure on fuel imports for energy and transport, reflected in US\$ per annum compared to 2008 expenditure levels) and increases in the ratio of direct employment to initiated RE/EE projects to the national employment rate; such effects will consequently translate into an overall increase in economic welfare and a decrease in poverty rates while improving the environmental and health conditions of the target country.</p>	<ol style="list-style-type: none"> 1. National energy and socio-economic statistics (via the national statistics entities in each Project country) 2. Annual reports of electric utilities (contains energy and financial data) 3. Publications and information provided by private sector power developers (IPPs) 4. Electric Utility Performance Surveys (provided by the Caribbean Electric Utility Association [CARILEC], a Project partner) 5. Socio-environmental performance data from studies done by local, regional and international institutions (e.g. Central Statistics Department, Central Bank) 	<ol style="list-style-type: none"> 1. No development of inter-island natural gas pipeline or grid extension during the Project period 2. A mid-term review will take place 12 month after initiation of the Project and a final evaluation takes place 36 months after initiation of the Project and both are performed by an independent external auditor.
Specific objectives	<ol style="list-style-type: none"> 1. Facilitate energy sector reform by improving energy sector governance, and develop institutional, technical and legal capacity and awareness of public workers, electric utility personnel, and energy consumers within each project country to accelerate the transition towards cleaner, more sustainable energy use. 	<ol style="list-style-type: none"> 1. Appropriate national institutional/management frameworks established in at least 3 of the 7 project countries 21 months after initiation of the Project. 	<ol style="list-style-type: none"> 1. Annual reports of utilities for public scrutiny (utility companies, IPPs) 	<ol style="list-style-type: none"> 1. National governments remain committed to collaborating in the develop of Sustainable Energy Plans

Logical Framework for the project

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		2. An increase of at least 50% participation level of RE/EE trained men/women representatives of Government, Private Sector and Civil Society in SEP development and implementation process 36 months after initiation of the Project	2. General press releases or other publications from Private Sector and NGOs representing civil society	2. National governments adopt Sustainable Energy Plans
	2. Address and mitigate market barriers defined in National Sustainable Energy Plans for the commercial development and increased use of viable renewable energy and energy efficiency technologies in energy projects in all sectors of the economy (e.g. transport sector, tourism sector, etc.) in the seven project countries.	1. At least 3 Sustainable Energy Plans drafted and adopted in 3 of the 7 project countries 12 months after initiation of the Project	1. Official governmental energy policy/legislation publications (Ministry of Energy, Environment, or the like)	1. No major natural disasters
		2. At least 1 priority policy action defined in collaboration with energy sector governing bodies and other national stakeholders per project country is provided technical assistance 24 months after initiation of the Project	„	„
		3. At least 5 new RE/EE projects in one or more of the 7 project countries are identified and facilitated in the preparation of pre-feasibility financing 36 months after initiation of the Project	„	„

Logical Framework for the project

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Expected results	1. Increased number of countries that have assessed existing energy sector policies, laws, and regulations and have prepared draft laws supporting the energy sector reform for the development and use of renewable energy and energy efficiency technologies and services	1. Type and number of technical assistance provided for the adoption of drafted and proposed energy policies or legislation in at least 3 of the 7 project countries 24 months after Project initiation.	1. Official reports from Project country governments, articles published in the national press, national energy and socio-economic statistics (via the national statistics entities in each project country), annual reports of electric utility (contains energy and financial data), publications and information provided by private sector power developers (IPPs)	1. National governments remain committed to collaborating in the develop and adoption of the Sustainable Energy Plans
			2. Electric Utility Performance Surveys (provided by the Caribbean Electric Utility Association [CARILEC], a project partner) and Socio-Environmental performance data from studies done by local, regional and international institutions (e.g. Central Statistics Department, Central Bank)	2. In case SEPs are not adopted, SEPs will continue to function as operational guideline for energy sector government agencies and stakeholders
	2. Transparent, objective and adequate RE/EE targets, regulations and incentives discussed, defined and emplaced in the 7 project countries, based on the National Energy Stakeholder Consultations (transparency)	a. Number of adopted energy regulation reforms and inclusion of RE/EE targets in formal energy legislation in the 7 Project countries compared to conditions by the initiation of the Project.	”	”

Logical Framework for the project

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	<p>3. Increased level of dissemination and transparency of information guaranteed on decisions made in the energy sector to key stakeholders, the international community, RE/EE project developers, and the general public (accessibility)</p>	<p>a. Number of officially created and governmental supported publications and communication channels (e.g. RE/EE hotline, websites, TV/radio programs, public discussions) and number of operational and financial management data (e.g. annual reports) of government, private and semi-government owned utilities in the 7 project countries compared to conditions by the initiation of the Project.</p>	"	"
	<p>4. Appropriate amount and quality of national institutional/management frameworks are defined and established in the 7 project countries (institutional capacity)</p>	<p>a. Establishment of a regional sustainable energy coordination unit (RCU) for the 7 Project countries 6 months after initiation of the Project</p>	"	"
		<p>b. Identified and established sustainable energy offices within appropriate ministries in at least 3 of the 7 Project countries 12 months after initiation of the Project (depends on type of ministries in each project country)</p>	"	"

Logical Framework for the project

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		c. Number of developed and empowered local institutions responsible for the promotion, selection, and management of procurement and regulatory functions for sustainable energy programs and projects development in the 7 project countries 36 months after Project initiation (depends on country context)	”	”
		d. Number and quality of facilitated and delivered services through Project partners and the linkage of the Project to other RE/EE initiatives in the Caribbean region		
	5. Increased number of RE/EE trained governmental, utility staff and members of NGOs in the 7 project countries (technical capacity)	a. Number of attendance to RE/EE workshops organized by Project, by governmental, utility staff and NGOs representatives (target: 140 men/women from electric utilities, 100 men/women from government agencies and 50 men/women from NGOs) of the 7 project countries	”	”
	6. A larger amount of households and commercial entities (large energy users) with increased acceptance and utilization of the provided RE/EE information and the increase in effective use of installed RE/EE systems in the 7 project countries (improved RE/EE public awareness)	a. Number or percent of annual increase in households (of total population of 790,000) and commerce (large energy users) with a RE/EE system installed in each of the 7 project countries 36 months after Project initiation	”	”

Logical Framework for the project

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	7. Completion of preliminary Sustainable Energy Technologies/Systems assessments and increased access to financing for sustainable energy project preparation and development in one or more of the 7 project countries (mitigating market barriers)	a. Number of completed renewable energy resource (wind, biomass, geothermal, hydro, and/or solar) preliminary assessments (target is at least 3 renewable energy resources preliminary assessments over the 7 project countries) 36 months after Project initiation	"	"
		b. 1 or more bankable/commercial renewable energy (RE) and energy efficiency (EE) development opportunity assessments and prefeasibility financing applications conducted in each Project country 36 months after Project initiation (target is at least 7 projects total)	"	"
	Activity	Means (1) (2)	Costs	
Activities	1. Develop National Sustainable Energy Plans (SEP)		382,500	
	1.1 Organize Government stakeholder meeting for 3 of the 7 Project countries (Antigua & Barbuda, the Bahamas and St. Vincent & the Grenadines)	<i>Conference room, AudioVisual apparatus, admin costs, travel + per diem OAS/REEEP staff</i>	45,000	
	1.2 Select a national focal point "champion" in 3 of the 7 Project countries (Antigua & Barbuda, the Bahamas and St. Vincent & the Grenadines)	<i>Travel + per diem OAS/REEEP or RCU staff for lobbying</i>	4,500	
	1.3 Organize multi-sector stakeholder consultation in 6 of the 7 Project countries	<i>Conference room, AudioVisual apparatus, admin costs, travel + per diem OAS/REEEP staff</i>	102,000	
	1.4 Prepare draft SEP in 3 of 7 Project countries (Antigua & Barbuda, the Bahamas and St. Vincent & the Grenadines)	<i>Legal professional(s), admin. Costs, RCU, travel + per diem (legal + RCU staff)</i>	51,000	

Logical Framework for the project

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	1.5 Review 1st draft of SEP with stakeholders in 4 of 7 Project countries	<i>Legal professional(s), admin. Costs, conference facilities, travel + per diem (legal + OAS/REEEP and/or RCU)</i>	57,000	
	1.6 Present final SEP at multi-stakeholder workshop in 6 of the 7 Project countries	<i>Legal professional(s), Conference facilities, admin costs, travel + per diem (OAS/REEEP staff +RCU+legal)</i>	114,000	
	1.7 Secure adoption of SEP by ministerial cabinets in at least 3 of the 7 Project countries	<i>Create office + facilities RCU, OAS office in country, admin. Costs</i>	9,000	
	2. Implementation of SEP Actions		1,587,957	
	2.a. Adoption of Sustainable Energy Policy and Regulatory Reforms		322,000	
	2.a.1 Review existing energy policies in 4 of the 7 Project countries	<i>Legal professional(s), travel + per diem, admin. Costs</i>	56,000	
	2.a.2 Assess alternatives for energy policy reforms in 4 of the 7 Project countries	<i>Legal professional(s)</i>	48,000	
	2.a.3 Draft energy policies/legislation in 4 of the 7 Project countries	<i>Legal professional(s), admin. Costs, office facilities</i>	48,000	
	2.a.4 Organize energy sector stakeholder consultations to review draft policies/legislation in 3 of the 7 Project countries (Antigua & Barbuda, the Bahamas and St. Vincent & the Grenadines)	<i>Legal professional(s), Conference facilities, admin costs, travel + per diem (OAS/REEEP staff +RCU+legal)</i>	57,000	
	2.a.5. Present policies/legislation to government in 3 of 7 Project countries (Antigua & Barbuda, the Bahamas and St. Vincent & the Grenadines)	<i>Legal professional(s), Conference facilities, admin costs, travel + per diem (OAS/REEEP staff +RCU+legal)</i>	57,000	

Logical Framework for the project

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	2.a.6 Provide Policy/Technical Assistance to government in considering adoption of policies/legislation in 4 of 7 Project countries	<i>Legal professional(s), admin costs, documentation/reporting</i>	56,000	
	2.b. Improve capacity of energy sector stakeholders and public awareness in areas of sustainable energy deployment, development and use		<i>320,957</i>	
	2.b.1 Organize a Regional Sustainable Energy Financing Seminar in 1 of the 7 project countries or Barbados - for regional and national bank managers and lending officers (organized by GS/OAS and REEEP)	<i>RE specialist(s), conference facilities, admin. Costs, travel + per diem (2 of OAS/REEEP staff)</i>	40,000	
	2.b.2 Organize 3 Regional Training Workshop - for Electric Utility personnel of the 7 Project countries (2 x from CARILEC, St. Lucia)	<i>RE specialist(s), conference facilities, admin. Costs, travel + per diem (2 of RCU or CARILEC or OAS/REEEP staff)</i>	57,000	
	2.b.3 Organize a Regional Renewable Energy and Energy Efficiency Policies Workshop - for government personnel, private sector and NGOs of the 7 Project countries (organized by CARILEC and CARICOM)	<i>RE specialist(s), conference facilities, admin. Costs</i>	40,000	
	2.b.4 Coordinate the Drafting and Development of an electric utility manager sustainable energy curriculum (for CARILEC members) and a sustainable energy development/best practices manual (for Energy Stakeholders); distribution through national sustainable energy offices and RCU.	<i>RE specialist(s) + legal professional(s), RCU facilities, OAS country offices facilities</i>	29,500	

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	2.b.5 Organize 5 Energy Awareness Weeks in 5 of the 7 project countries	<i>RE specialist(s), conference facilities, admin. Costs, travel + per diem (1 of OAS/REEEP staff)</i>	100,000	
	2.b.6 Organize a RE/EE Study Tour through Europe (2 representatives of each of the 7 Project countries)	<i>7 x 2 country representatives, 1 OAS/REEEP RE specialist, travel + per diem, conference facilities</i>	54,457	
	2.c. Development of strong local institutions responsible for the promotion, selection, and management of sustainable energy programs and projects		<i>274,000</i>	
	2.c.1 Establish e Regional Coordinating Unit (RCU) - (Office, Staff, Website) in one of the 7 project countries	<i>OAS Staff</i>	55,000	
	2.c.2 Identify appropriate location for national sustainable energy offices in 3 of 7 Project countries	<i>OAS country offices, RCU staff</i>	135,000	
	2.c.3 Prepare terms of reference for national offices in 3 of 7 Project countries	<i>RCU staff</i>	21,000	
	2.c.4 Assist in identification/recruitment of necessary staff in 3 of 7 Project countries	<i>RCU + CARILEC staff</i>	21,000	
	2.c.5 Train national staff in 3 of 7 Project countries	<i>RCU + CARILEC staff</i>	42,000	
	2.d. Mitigate technical risks and uncertainties within sustainable energy project development		<i>395,000</i>	
	2.d.1 Execute project identification missions in each of the 7 Project countries	<i>Cooperation of Local electric utility; private power developers; landowners; technology consultants, RCU or OAS/REEEP staff, travel + per diem</i>	140,000	
	2.d.2 Execute renewable natural resource assessments and prefeasibility studies in 3 of the 7 Project countries	<i>Resource assessment experts/scientists/consultants</i>	135,000	

Logical Framework for the project

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	2.d.3 Conduct energy audits in 3 of the Project countries	<i>Resource assessment experts/scientists/consultants</i>	60,000	
	2.d.4 Monitoring and Evaluation of the Project	<i>Financial Auditing Consultants</i>	60,000	
	2.e Improved access to financing for sustainable energy project preparation and development		<i>276,000</i>	
	2.e.1 Assess availability of project preparation financing in the region	<i>Regional study, with data/chapter for each Project country</i>	77,000	
	2.e.2 Assess availability of project development financing in the region	<i>Regional study, with data/chapter for each Project country</i>	77,000	
	2.e.3 Assess availability of energy efficiency project financing in the region	<i>Regional study, with data/chapter for each Project country</i>	77,000	
	2.e.4 Prepare sustainable energy finance guide for the Caribbean	<i>Study/guide</i>	20,000	
	2.e.5 Link projects identified/in preparation to financing resources available through CREDP	<i>CREDP project financing application (CRETAF and CREF)</i>	25,000	
		<i>Total</i>	1,970,457	

Notes:

- (1) Staff (Applicant and Partners) time allocated for the implementation of the Project has been distributed
- (2) The full amount of "Contingencies" has been distributed throughout the Project, however this amount (93,831) will not be