IDB
Inter-American Development Bank

Appendix A

Public Consultation held on April 28, 2021

Environmental and Social Assessment for Proposed Abaco Island Solar PV Plant and Energy Storage Project

April 2021

Project No.: 0582081

El negocio de la sostenibilidad

ERM

1. Public Consultation

People have a right to be consulted. According to the IDB's Guidelines on Consultation and Stakeholder Engagement in IDB Projects, "people should be able to receive accurate, comprehensible information about the objectives, scope, timing and potential impacts and risks associated with a project. It means that they will be given the opportunity to express their concerns, fears, and doubts, will be allowed to share their knowledge, insights, and understanding, and will be able to recommend modifications or changes in the operation. It also means that their concerns, fears and recommendations will be seriously considered and, wherever possible, addressed" (IDB, July 2013[1]).

To support the diversification of the Energy Matrix of The Bahamas and to increase security and reliability of the network, the IDB is undertaking the operation "Reconstruction with Resilience in the Energy Sector in The Bahamas" (the ''Operation''), coded BH-G0003. The objective of the Operation is to support the Government of The Bahamas (GoBH) with the rehabilitation of critical energy infrastructure and restoration of electricity service in the islands heavily affected by hurricane Dorian, while facilitating the integration of renewable energy in the country.

The Operation represents an additional source of funding, offered by the European Union – Caribbean Climate Investment Facility (EU-CIF) under the Framework Administrative Agreement signed between the European Union (EU) and the IDB, to expand the scope of the IDB's Conditional Credit Line for Investment Project (CCLIP) "Advancing Renewable Energy In The Bahamas" (approved by the IDB in January 2020 and coded as BH-O0006). In January 2020, as part of the CCLIP approval process, a Strategic Environmental and Social Assessment (SESA) and an Environmental and Social Management Framework (ESMF) were prepared to identify the potential social and environmental impacts related to the CCLIP and establish adequate management guidelines for the components of the Operation.

The Operation will support the following two components of the CCLIP:

- **Component 1:** Reliable and renewable electricity in New Providence and family Islands to support the reconstruction efforts.
- **Component 2:** Strengthening skills for the energy reconstruction effort across the Bahamas.

In support of Component 1, the Operation will finance the installation of a 2.25 Megawatts (MW) Solar Photovoltaic (PV) Plant and an equivalent capacity of battery energy storage (occupying an area of approximately 5 hectares of governmental land) to primarily supply the Marsh Harbor Government Complex and the Marsh Harbor Healthcare Center (the "Hospital") in the Island of Great Abaco. This project will support the resilient reconstruction and rehabilitation efforts of the electric system, following the destruction caused by Hurricane Dorian in 2019.

In January 2021, an Environmental and Social Assessment (ESA) was submitted for a Solar Photovoltaic Project (the "Project") in Abaco as part of Component 1 of the Operation. This report summarizes the results from the public consultation for the Project; it includes an overview of participation in the consultation and provides evidence from the consultation process.

[1] Inter-American Development Bank, *Guidelines on Consultation and Stakeholder Engagement in IDB Projects*, July 2013. Available at: https://publications.iadb.org/publications/english/document/Guidelines-on-Consultation-and-Stakeholder-Engagement-in-IDB-Projects.pdf

1.2 Public Consultation Objectives

The Public Consultation had the following objectives:

1) Present and Communicate the Scope of the Project: Reconstruction with Resilience in the Energy Sector in The Bahamas;

2) Present the Resilience Approach;

3) Present and Communicate the outcomes of the preliminary Environmental and Social Assessment (ESA) undertaken for the Program and its First Operation; and

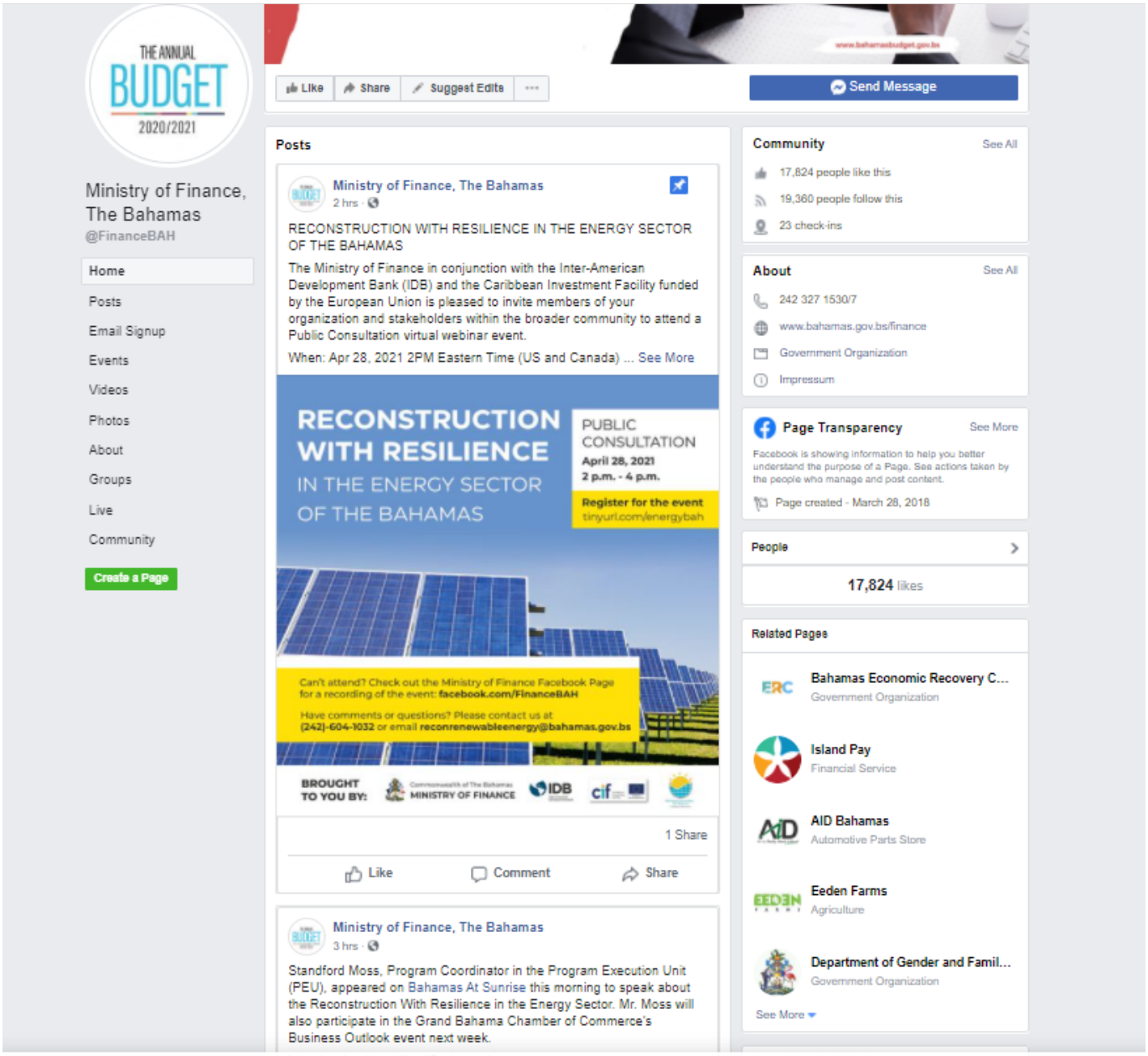
4) Share and hear the stakeholders' feedback, ideas, comments and Bahamians' opinions on the Program and its high-level impacts.

1.3 Public Consultation Logistics

In accordance with the IDB's Directive B6, a Public Consultation was held via Zoom, on April 28, 2021 at 2pm.

The IDB, ERM (consulting firm in charge of the ESA) and the Bahamas Ministry of Finance conducted the event. The meeting was attended by 68 stakeholders via Zoom, and it was live streamed in the Facebook page of the Ministry of Finance and through the University of the Bahamas Facebook page to facilitate the participation of other stakeholders; the event was followed by around 240 participants.

Invitations were sent prior to the event by email to representatives of the community and local authorities (See **Appendix F**). Furthermore, to extend the invitation to the wide public in a more efficient manner, the event was advertised in the social media (on the Facebook page of the Ministry of Finance) during the week and days previous to the event. The invitation to the event was published on Facebook on April 23, 2021 through the Ministry of Finance Page (see Figure below).



Source: Facebook, Ministry of Finance 2021.

Figure 1-1: Public Consultation Announcement on Facebook (Ministry of Finance Page)

The attendants to the Public Consultation included stakeholders from the public sector, private sector, civil society and others (see Zoom Registration List in *Appendix C*). Attendance at the meeting was significant and attendees were participatory, which resulted in a meaningful discussion with the Project proponent.

There were opening remarks for approximately 15 minutes by members of the Ministry of Finance, including Marlon Johnson, the Acting Financial Secretary, and by the IDB's Country Representative for the Bahamas. This was followed by an introduction of the public consultation and resilience approach by the IDB. Then there was an overview of the Project and Parties involved, followed by ERM's presentation of the outcomes of the Environmental and Social Assessment (ESA), focusing on the potential environmental and social

impacts, which lasted approximately 30 minutes. After the presentations, the attendees had the opportunity to ask questions and make comments throughout the presentation, and for approximately half an hour at the end while Project representatives provided the necessary responses. The meeting lasted for approximately one and a half hours.

The appendices to this report include the following:

- ERM Presentation Slides for the Public Consultation (*Appendix A*);
- Flyer used for the Facebook announcement and stakeholder invitations (*Appendix B*);
- Zoom Registration List (*Appendix C*);
- Questions and Answers Register-Verbatim (*Appendix D*);
- Photographic evidence from the public meeting (*Appendix E*); and
- List of Stakeholders who Received Invitations (*Appendix F*).

1.4 Key Questions and Comments from Attendees

Following the presentation, a Question and Answer session was held. The stakeholders' questions for the Minister of Finance predominated during the Q/A part of the public consultation. The key issues and concerns expressed by the stakeholders revolved mainly around issues linked to the loan, the price of energy, the Government's position on renewable energy, opportunities for local renewable companies and energy sources to diversify the grid. The only environmental and social aspects raised from the community were with regard to local hiring and training. ERM indicated that access to training is included as a component in the ESMP and further details will be developed by the PEU and EPC.

The Ministry of Finance shared an email address and phone number to gather any additional comments following the event.

1.5 Conclusion

The participating stakeholders raised no significant environmental and social issues during this session. Based on the type of questions raised during the public consultation, there seems to be interest in the technical aspects of the loan and the design of the Project. The consultation was delivered in a meaningful manner, involving different categories of stakeholders and was conducted in a transparent manner, equitable and non-discriminatory. Overall, the consultation was inclusive. Stakeholder engagement and consultations shall continue throughout the next steps and phases of the Program.

Appendix A –Presentation Slides

RECONSTRUCTION WITH RESILIENCE

IN THE ENERGY SECTOR IN THE BAHAMAS

PUBLIC CONSULTATION

April 28, 2021 | 2 p.m. - 4 p.m.

LIVE WEBINAR

Commonwealth of The Bahamas
MINISTRY OF FINANCE

IDB
Inter-American Development Bank

cif Caribbean Investment Facility

ERM

RECONSTRUCTION WITH RESILIENCE

IN THE ENERGY SECTOR IN THE BAHAMAS

Agenda

Time	Topic	Participants/Speakers
2:00 – 2:05	Welcome & Opening of Webinar	Sherrill Poitier, Communications Manager, Ministry of Finance
2:05 – 2:15	Opening remarks	Marlon Johnson, Acting Financial Secretary, Ministry of Finance Daniela Carrera Marquis, Representative Country Office Bahamas, Inter-American Development Bank (IDB)
2:15 – 2:20	Introduction and objective of the Public Consultation & Resilience approach	Malaika Masson, Energy Sector Senior Specialist, IDB
2:20 – 2:35	Overview of the Project & parties involved	Stanford Moss, Program Coordinator, Reconstruction with Resilience in The Energy Sector in The Bahamas (RRESB)
2:35 – 3:05	Environmental and social studies	Environmental Resources Management (ERM)
3:05 – 3:35	Questions and comments from the audience	

Opening Remarks

MARLON JOHNSON
Acting Financial Secretary
Ministry of Finance, The Bahamas

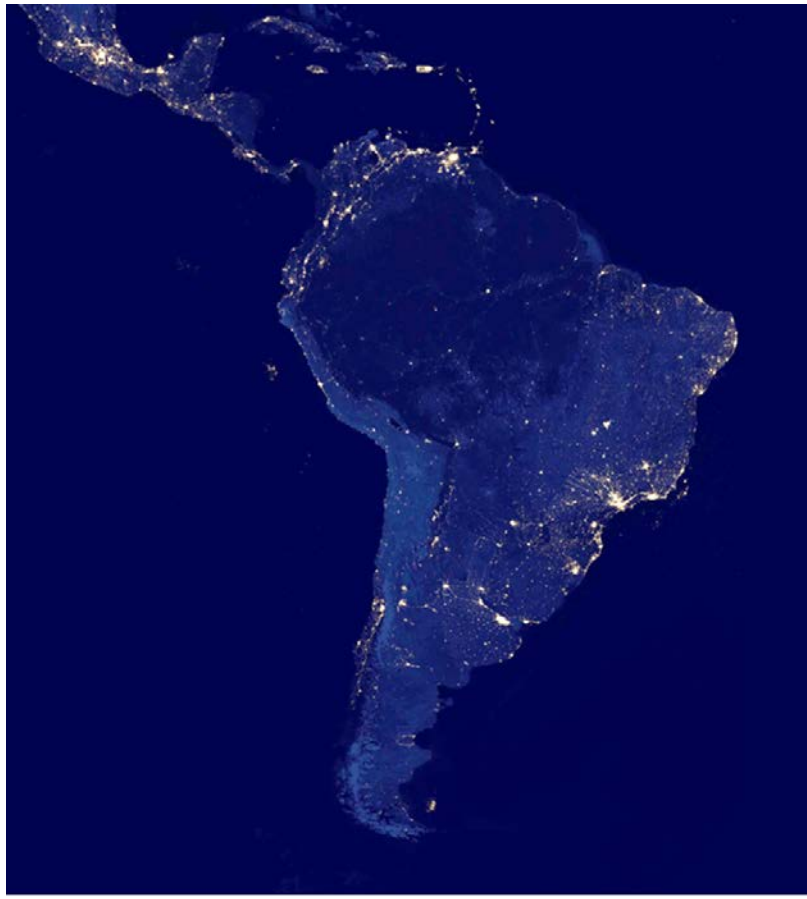
DANIELA CARRERA-MARQUIS
Country Representative for The Bahamas
Inter-American Development Bank (IDB)

DR. MALAIKA MASSON
Senior Regional Energy Specialist
Inter-American Development Bank (IDB)

Introduction & Objective of the Public Consultation & Resilient Approach

Background

- We work to improve lives in Latin America and the Caribbean (LAC).
- Through financial and technical support for countries working to reduce poverty and inequality, we help improve health and education, and advance infrastructure.
- With a history dating back to 1959, today we are the leading source of development financing for LAC.
- We maintain a strong commitment to achieving measurable results and the highest standards of integrity, transparency, and accountability.
- The Bank new Administration's current focus areas include three development challenges[1]:
  - Work towards sustainable and inclusive economic growth (reactivate the productive sector,…);
  - Identify a Pathway to accelerate the recovery (climate change, by helping countries foster resilience, mitigation, and adaptation,…);
  - Present a value proposition (to increase efficiency in processes,…)



1. VISION 2025. REINVEST IN THE AMERICAS: A DECADE OF OPPORTUNITY. IDB Group, Feb. 2021.

Build Back Forward

- The Caribbean region has the natural resources to be a model for decentralized, sustainable, future-forward resilience but face challenges such as **lack of quality infrastructure, limited fiscal space, low technological absorption, and slow recovery**.

- To close the infrastructure deficit in the Caribbean **requires investments of approx. 5% of GDP**.

- By building better and smarter, Caribbean countries can close the infrastructure gap, **improve productivity, and stimulate economic growth and job creation.**

- Build Forward is an ambitious program to help the Caribbean **recover sustainably from disasters by using innovative technologies, employing strategic solutions and facilitate access to multi-donor facility to support initiatives.**

The EU-CIF

Established in 2012, the **Caribbean Investment Facility (CIF) is one of the European Union's regional blending facilities**, aimed at contributing to economic development and growth, regional integration, poverty reduction and environmental protection.

CIF acts as a **catalyst to mobilize funding for development projects by combining EU grants with financial resources from European and regional financial institutions, governments and the private sector**.

Currently, CIF is financing projects in key sectors that are essential for the achievement of the Sustainable Development Goals (SDGs), such as **renewable energy, water** and wastewater systems, sustainable transport, environment, information and communication technology, health, education and other social services, and to small and medium-sized enterprises (SMEs).

Objective of Today's Consultation:

- **Present and Communicate** the Scope of the Project: *Reconstruction with Resilience in the Energy Sector in The Bahamas;*

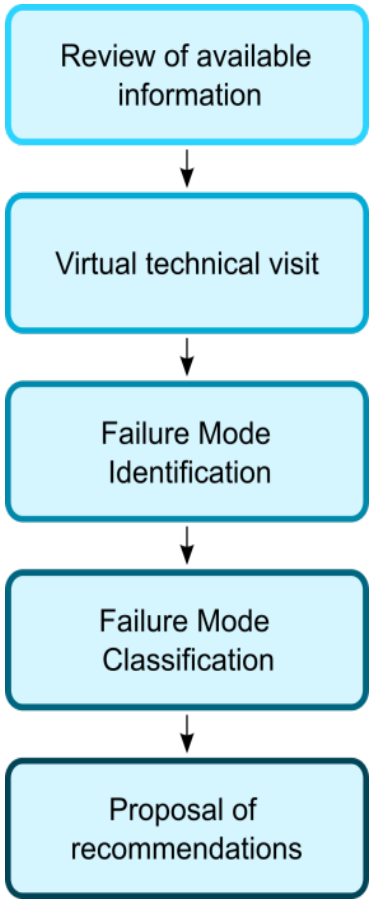
- **Present the Resilience Approach;**

- Present the preliminary **Environmental and Social Analysis and Management** undertaken for the Program and its First Operation;

- **Share and hear your feedback**, ideas, comments and Bahamians' opinions on the Program and its high-level impacts.

Resilience Approach

- Qualitative disaster and climate change risk analysis was done for solar PV plant in Marsh Harbour.
  - 13 Failure Modes were identified – 3 produced by rainfall, 5 from high winds, 2 from storm surge, and 3 other general events.
  - **Main Recommendations:** (i) reinforcing the plant design against strong winds and floods by designing strong panel structures and foundations, (ii) implementing anti-corrosion measures using underground cables and (iii) implementing watertight connections.
- The Disaster Risk Emergency Management Plan (DREMP) details the characteristics of the system, the scenarios of when it should be applied, how to proceed in case of an event, and who is responsible for each task, which includes:
  - Description of the PV-plant; Roles and Responsibilities; Emergency detection; Emergency evaluation and classification; Communications; Emergency notification chart; Supplies and Resources
- Having the DREMP helps to **reduce the impacts that hurricanes and other natural hazards** could have as well as to re-establish the normal operation of the solar plant after the extreme events.



Overview of Project & Parties Involved

STANFORD MOSS

Program Coordinator in the Program Execution Unit (PEU)

The PEU How we are organized to execute the program?

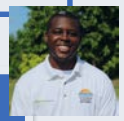
Ministry of Finance (MoF)

Program Coordinator
Stanford Moss

Procurement Specialist
Denise Dorsett

Financial Specialist
Natasha Adderley

Environmental and Social Specialist
TB Hired



Administrative Assistant
Cherise Nixon

Monitoring Assistant
Dillon Hylton

Electrical Engineer
Alden Austin

Energy Electrical Engineer
TB Hired

Microgrid Electrical Engineer
TB Hired

Legal & Regulatory Specialist
TB Hired

Communication & Training Specialist
TB Hired

Introduction & Overview of the Project

Objectives of the Project

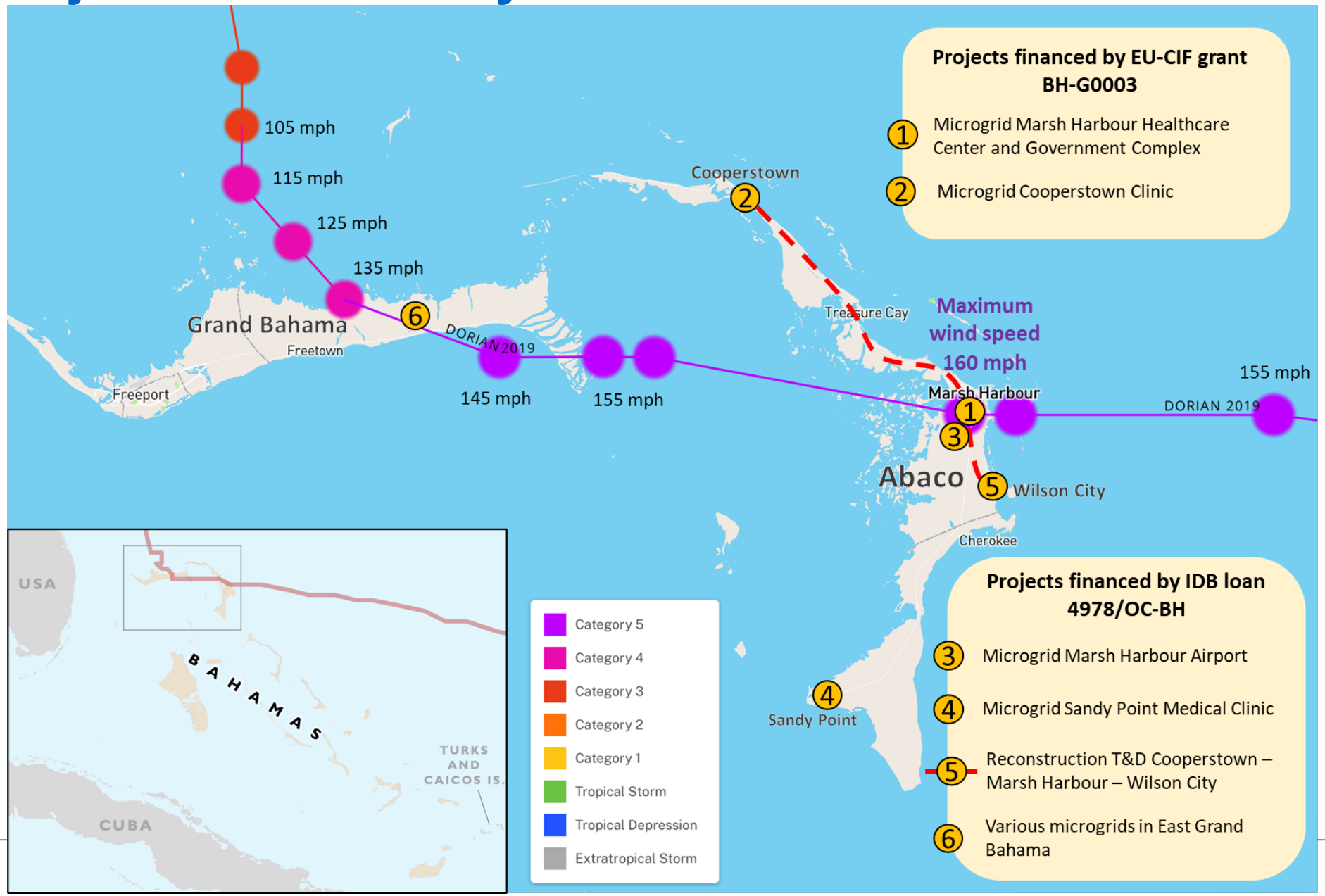
- The objective of this operation is to support the Government of The Bahamas restore and enhance security of the electricity service through the adoption of climate-resilient renewable energy infrastructure.

- The specific objectives are:

  1. promote the adoption of resilient Solar Photovoltaic (PV) technologies;
  2. develop local skills for services related to solar PV generation systems, fostering participation of women and Persons with Disabilities.

- The scope of this Grant complements the scope of the BH-L1048 Loan “Reconstruction with Resilience in the Energy Sector in The Bahamas” (microgrids, rooftop solar PV projects and training).

Projects financed by the EUCIF Grant and IDB Loan



Summary of Program costs

Components	Total IDB		%
	EUR (€)	US$ Equivalent	
Component 1. Reliable and Renewable Electricity in New Providence and Family Islands	**7,508,000**	**8,250,550**	**91.6**
Component 2. Support the strengthening skills for the development of new installed RE	**310,000**	**340,659**	**3.8**
Other costs	**382,000**	**419,780**	**4.6**
a. IDB lead fees	200,000	219,780	2.4
b. Consulting services related to PEU	120,000	131,868	1.5
c. Consulting services related to communication and dissemination of the program's deliverables	62,000	68,132	0.8
Total	**8,200,000**	**9,010,989**	**100.0**

RATIO CONTRIBUTION
EU-CIF

Component 1

Component 1. Reliable and Renewable Electricity in New Providence and Family Islands

- Deployment of decentralized solar PV plants, rooftop systems and innovative microgrids with battery storage capacity, together with grid modernization technologies to improve the reliability and resiliency of the power network in the islands.

Microgrids

- Installation of a Solar PV plant of around 2.25MW and an equivalent capacity of battery energy storage to primarily supply the Marsh Harbour Healthcare Center and the Government Complex in central Abaco.

- Installation of a Solar PV plant of approximately 0.25 MW for the Coopers Town Medical Clinic, located in northern Abaco, which will include a storage capacity of around 2 MW.

Component 1

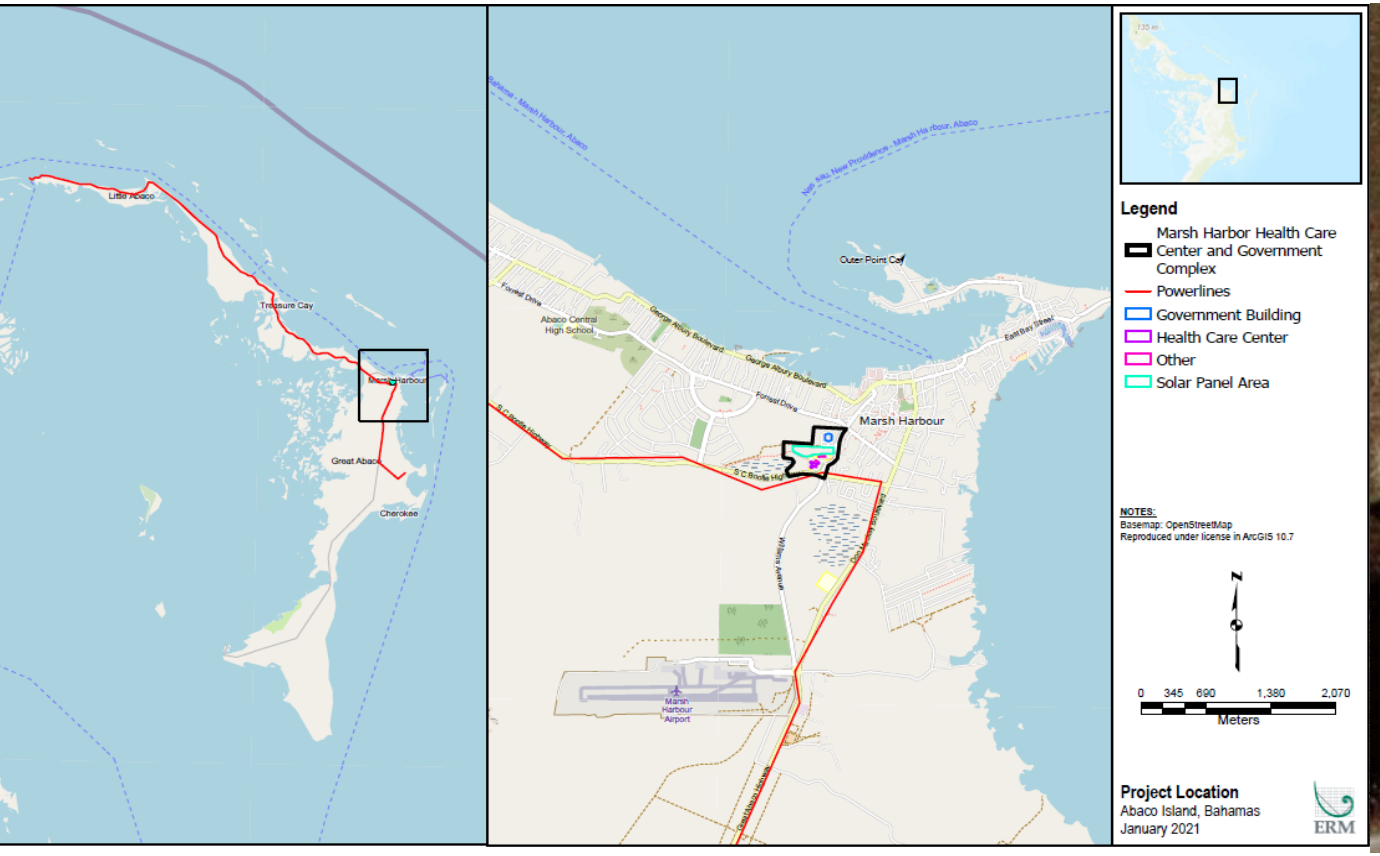
Rooftop solar PV projects

- Deployment of 3 rooftop solar PV plants in New Providence, which will add an approximate capacity of 407 kW.

- Projects considered so far include:
  1. University of The Bahamas (291 kW);
  2. C.I. Gibson Senior High School (49 kW); and
  3. Customs Headquarters (67 kW).

Marsh Harbour Healthcare Clinic and Government Complex

The first microgrid will be constructed on a government-owned 5-hectare (ha) parcel in Marsh Harbor on Great Abaco Island, between the Marsh Harbor Healthcare Center and the Marsh Harbor Government Complex.



Ortophoto of the Marsh Harbour Hospital and the Government Complex.

Coopers Town Medical Clinic

Component 1. Reliable and Renewable Electricity in New Providence and Family Islands

Prospective land for Microgrid

Coopers Town Medical Clinic

Component 2

Component 2. Support the strengthening skills for the development of new installed RE

- This component will finance training activities in installation and maintenance of solar PV systems, services in supply chain and solutions within the solar industry to foster local participation in these services, with an emphasis on services provided by women and vulnerable communities (such as Persons with Disabilities -PWD) and local contractors.

- Funding from the EU-CIF will train around 30 people, of which 50% will be women.

- In partnership with local institutions or NGOs working with PWD

Environmental & Social Assessment

ENVIRONMENTAL
RESOURCES MANAGEMENT

ESA Purpose

- The purpose of the ESA is to provide an **independent and factual, and technical basis** of the project's **potential impacts**.
- The ESA considers impacts on social, physical, and biological resources and receptors with potential to be affected– and include receptors such as:

ESA Methodology

- Receptors are studied to determine existing / baseline conditions.
- Based on the potential impacts' **magnitude** and the receptors' **vulnerability**, potential impacts are identified and assigned one of six **significance** ratings:

- Management measures are proposed to reduce the magnitude of potential impacts. Examples of management measures include:

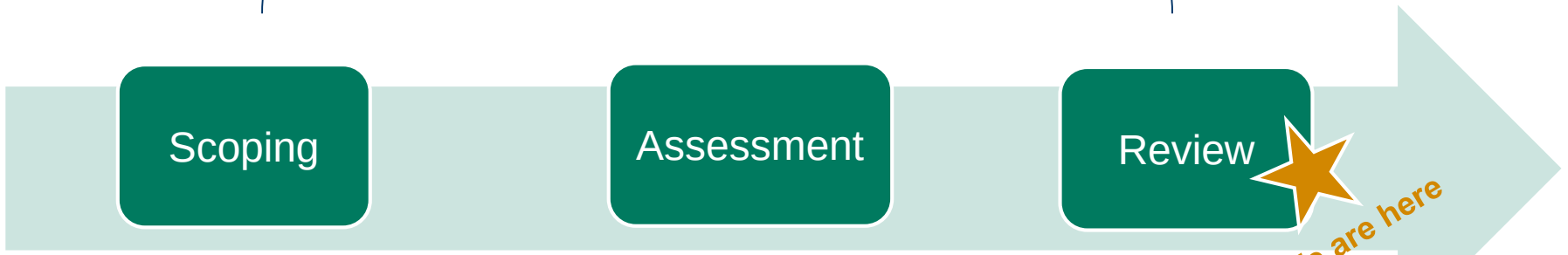
Stakeholder engagement

Development of an Emergency Response Plan

ESA Process

Stakeholder Engagement

- Solicit stakeholder feedback on the Project and ESA process at key stages
- Gather local knowledge for consideration in the Project



- Predict likely interactions between the Project and the environment

- Execute environmental, biological and socio-economic studies
- Identify and assess potential impacts
- Prepare ESA

- Hold public disclosure meetings to explain ESA results and solicit stakeholder feedback
- Revise ESA based on public feedback

ESA Outcomes and Next steps

- This operation is **not** expected to generate **significant adverse impacts**;

- Potential adverse environmental and social impacts can be managed through typical **management and monitoring practices;**

- **Additional surveys, appraisals and management plans** will be prepared during the future stages of the development of this operation, in accordance with the requirements of the local legislation and good international industry practices.

Environmental & Physical Resources

Terrestrial Wildlife

Bermuda Petrel

Existing Conditions:

- The Abaco Islands support wetlands, mangroves and coastal shore stand and dune communities that are critical for seabirds and migrating birds.
- Nine amphibians and reptiles potentially occur within the area of influence.
- On the Abacos Islands, there is an absence of native small mammals except for bats.

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Terrestrial Wildlife: the Project may result in mortality or injury of wildlife species and degradation of habitats, during construction and operations with use of heavy machinery and increased vehicular traffic, as a result of to vegetation clearing and habitat loss, as a result of hunting or poaching. It may also result in disturbances as a result from lighting, noise, glare, and chemical hazards.	✓ Pre-Construction Screening ✓ Design and implement a Community Wildlife Management training	 **Collision with TL; solar panel glare.**  **All others.**

Terrestrial Vegetation

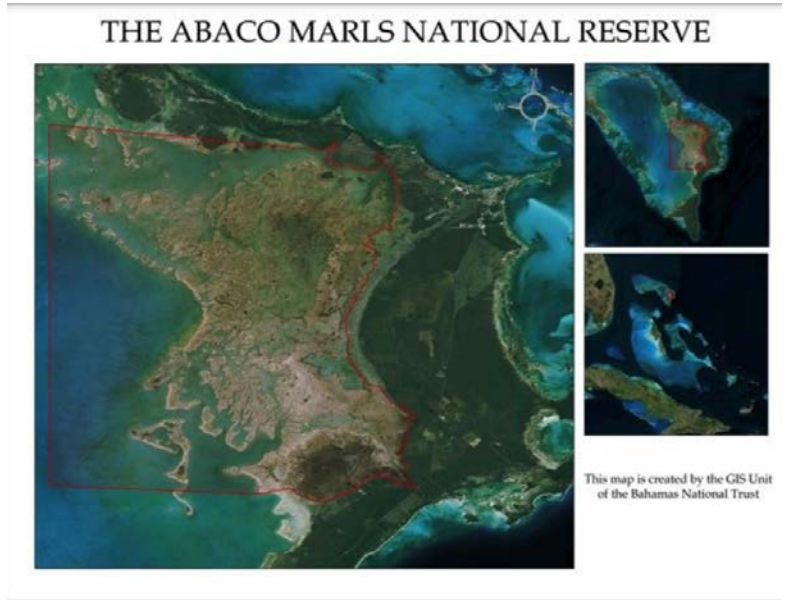
Caribbean Pine

Existing Conditions:

- It is unlikely that any protected species occur in the Project site. Further site inspections to be undertaken.
- Invasive flora species of concern on Abaco Islands include the Australian paper bark tree (*Melaleuca quinquenervia*), the Australian pine (*Casuarina equisetifolia*), Hawaiian Seagrape (*Scaveola sericea; syn S tacada*), Brazilian pepper (*Schinus terebinthefolious*) and several aggressive grasses such as Napier grass (*Pennisetum purpureum).*

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
<u>Terrestrial Vegetation</u>: the Project may result in impacts related to traffic and site preparation activities; disturbance of vegetation; vegetation clearance; and equipment from foreign countries potentially bringing in invasive species.	✓ Pre-Construction Screening ✓ Revegetate areas below panels with native grasses ✓ Implement dust control procedures ✓ Monitor air quality ✓ Invasive species management and equipment inspections	NEGLIGIBLE

Protected Areas



Existing Conditions:

- 22 protected areas occur on Abaco Islands with different measures of protection and management types; these include 10 marine and 12 terrestrial areas.
- The closest areas of protection include the Marsh Harbor Forest Reserve, sitting 3 km south of the Project, and Marls of Abaco National Park, sitting at about 3.5 km SW of the Project site.

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Protected Areas: Project-related activities during Construction would result in the temporary degradation of habitat quality within the nearby Marls of Abaco National Park.	✓ Ensure Project areas are appropriately demarcated. ✓ Ban hunting and harassment of wildlife. ✓ Minimize the amount of artificial lighting used. ✓ Implement Waste Management Plan.	NEGLIGIBLE

Air Quality

Saharan Dust plumes over Bahamas

Existing Conditions:

- Air quality data for Abaco is limited. Ambient air quality in most of The Bahamas is relatively good due to: (i) strong winds, (ii) small industrial base, and (iii) low population density.
- Major pollutants include transportation and fossil fuels.

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Air Quality: increased emissions due to construction.	✓ Dampen the haul roads/construction site ✓ Restrict removal of vegetation and soil cover ✓ Land clearance will be sequential and the smallest possible area; ✓ Stripping of topsoil will not be conducted earlier than required ✓ Maintenance programs for construction vehicles	NEGLIGIBLE

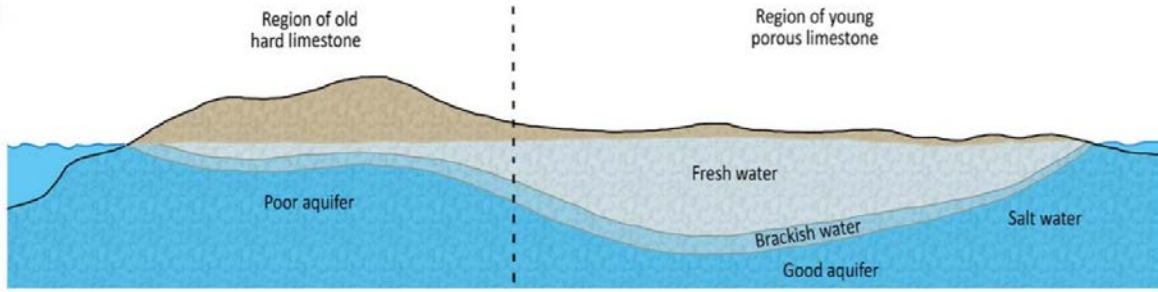
Noise

Existing Conditions:

- The Project Site is located in a vegetated area that is surrounded by an open vegetated field to the west, a hospital complex to the south, a government-building complex to the northeast, and a mixed urban/residential to the east. In general, the existing sources of noise at the Project Site are associated with mixed-use urban land use (residential and institutional), with a low to moderate volume of local traffic.

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Noise: construction related noise will impact nearby noise receptors.	✓ Ensure equipment is in good working order ✓ Minimize material drop heights ✓ Operate machinery at low speeds or power when practical	

Water Resources



Groundwater in The Bahamas

Existing Conditions:

- The hydrologic setting of The Bahamas, including Abaco, differs from the usual continental setting in two ways: (i) the islands are completely covered by limestone so precipitation sinks as diffuse input into the limestone; and (ii) groundwater (fresh or brackish) occurs in a lens that floats on the saline marine water that permeates the islands from below
- Freshwater resources are finite and vulnerable in The Bahamas. Water is considered 'scarce' according to United Nations criteria, and rainwater is the only source of freshwater

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Water Resources: The Project activities may cause water resources contamination. Project may compete with other users for access to water resources.	✓ Pollution management practices, to limit the risk of water resources contamination ✓ Water Management Plan, describing strategies for water sourcing and consumption savings, verifying the availability of inland water resources and its quality and adequacy for Project purposes.	

Waste Management

Existing Conditions:

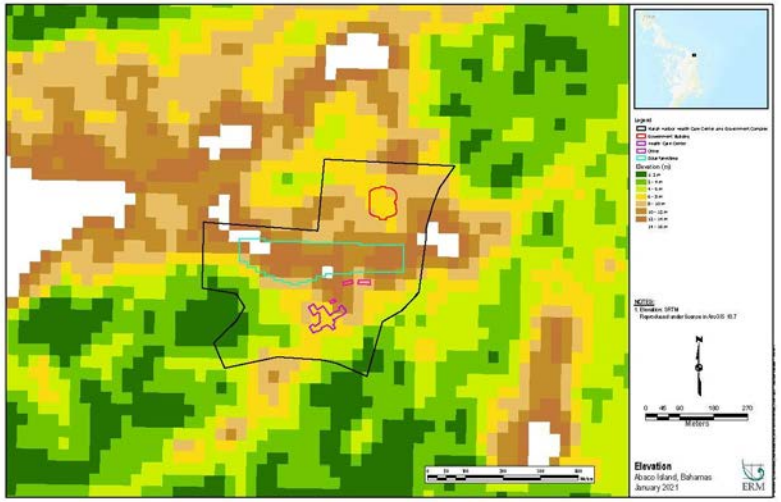
- Waste disposal services on Abaco may be inadequate and are under strain. In order to facilitate land clearance and the disposal of debris disposal during the reconstruction operations, the local authority allowed the use of two emergency waste dumping sites in Cay Site and Spring City. Uncontrolled waste dumping, cases of arsons, and extremely poor operational standards have been reported for these sites, so their use in the context of this project should be restricted to emergency purposes only or avoided. The EPC contractor will be required to identify alternative options for waste disposal, especially in relation to waste categories that are classified as hazardous.

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Waste Management: Project actives will generate waste, and waste management facilities and services on the island are compromised.	✓ The ESMP specifies good international practices for solid waste and hazardous waste management (handling, transportation, disposal) for construction and operation activities. ✓ Furthermore, the ESMP requires segregation of contaminated materials and verification that the final disposal point is authorized and appropriate for disposal of hazardous materials. A more specific operational waste management plan will be prepared by the EPC contractor before the commencement of the construction works.	

Landscape, Topography and Soils

Existing Conditions:

- The Abacos are a large and complex island group, which include a considerable number of cays along its eastern shore, a feature that makes it quite different from its Atlantic counterparts.
- The soils of Abaco Island consist mostly of calcareous particles, with some aluminous lateritic soils formed under humid tropical conditions.
- This type of soils presents certain vulnerability to erosion effects.



Project Site Topography

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
<u>Landscape, Topography and Soils</u>: Project activities will cause soil erosion and topsoil.	✓ Erosion and Sediment Control Plan ✓ Use well-drained roads ✓ Growth media layer will not be mixed with subsoil ✓ Clearance of vegetation will not be conducted earlier than required	

Geology and Geomorphology – Existing Conditions

Existing Conditions:

- The Bahama Islands have a foundation (i.e., the Bahamian Platform) of fossil coral, but much of the rock is olitic limestone.

Olitic Limestone

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Geology and Geomorphology: risk of soil instability, to be further investigated.	✓ Reduce the Project area to a minimum ✓ In case unstable soils are identified, reinforce their support capacity ✓ Erosion and Sediment Control Management Plan	NEGLIGIBLE

Social Environment

Public Infrastructure

Existing Conditions:

- Abaco suffered 87% of the overall damage caused by the hurricane, with 66.8% of the damage to the infrastructure sector taking place on Abaco. There were telecommunications losses, housing losses, medical infrastructure damage, and utilities damage, among others.

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Public Infrastructure: the Project is likely to result in stress to Abacos' public infrastructure. This may include impacts to waste disposal, health infrastructure, accommodations, road infrastructure and medical infrastructure.	✓ Emergency Preparedness and Response Plan ✓ Grievance Mechanism ✓ Local Employment and Local Supplier Plan ✓ The PEU and the EPC contractor will verify any potential interference that construction activities may have with other interventions on the island, and, where necessary, establish coordination. ✓ The EPC Contractor will develop sanitation, health, and safety protocols that will especially focus on hygiene standards for food and water consumption, workers accommodation, and protection from rodent and insect-borne diseases. ✓ The EPC contractor will evaluate sanitary conditions for Abaco and determine if additional medical provisions should be considered.	MINOR

Transportation

Existing Conditions:

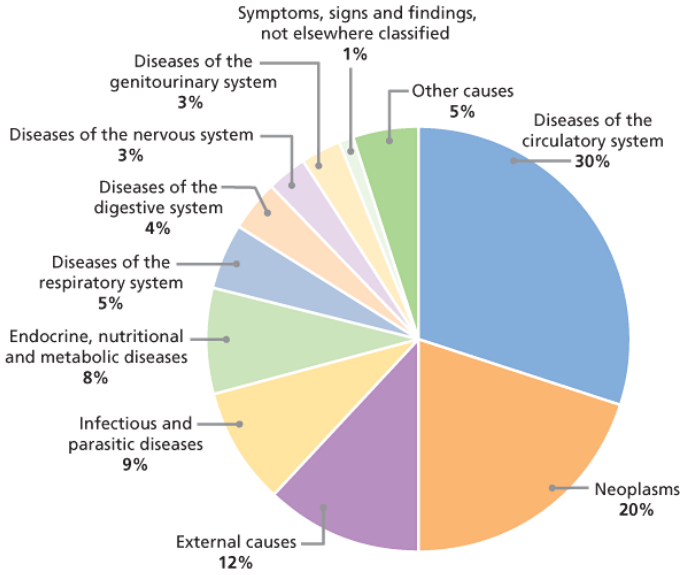
- Roads, airports and port facilities in Abaco suffered serious damages as a result of Hurricane Dorian.

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Transportation: The movement of Project equipment and materials will result in interactions between Project traffic and non-Project traffic, as well as the potential for travel delays and reduced public access. This may impact road infrastructure, marine port capacity, road delays and road safety.	✓ Transportation Management Plan ✓ Emergency Preparedness and Response Plan ✓ Journey Management Plan for truck deliveries ✓ The PEU and the EPC contractor will verify any potential interference that the construction activities may have with other interventions occurring in the island, and, where necessary, establish the appropriate coordination.	MODERATE **Road Safety during Construction** MINOR **Road Infrastructure and Road Delays during Construction** NEGLIGIBLE **Road Infrastructure and Road Delays during Operation; Marine Port Capacity**

Community Health and Safety

Existing Conditions:

- Circulatory diseases are the leading cause of death, and cancer is the second leading cause of death in the Bahamas. According to the 2010 census, 47.2% of the general population has health insurance.



Source: PAHO Health Information Platform (PHIP).

Leading Causes of Death, 2014

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Community Health and Safety: Health and safety impacts arising from the construction and operation of the Project are likely to include increased road safety risks, increased noise, exposure to Project-related hazards, site-security issues, dust emission and potential impacts related to COVID-19.	✓ Community Grievance Mechanism ✓ COVID-19 Contingency Plan ✓ Community Health and Safety Management Plan	 **Road Safety**  **All others**

Gender

Existing Conditions:

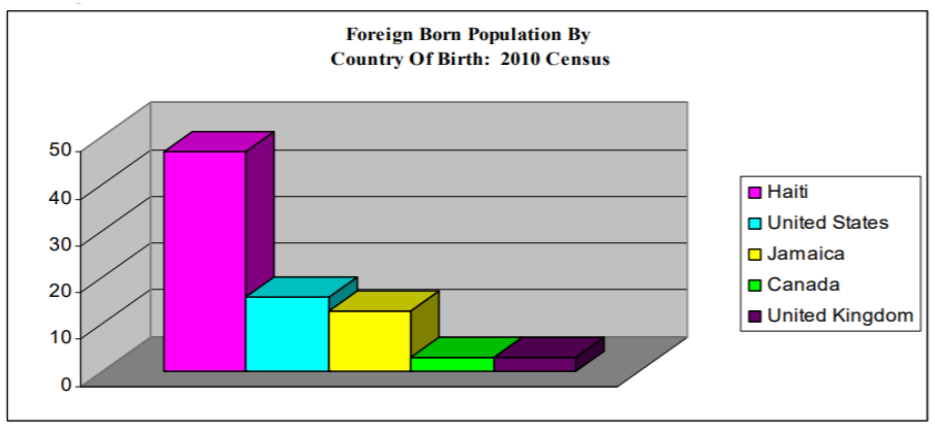
- As of 2018, in the judiciary, women held 68% of the positions of justices, registrars, and magistrates; in politics, 5% of Cabinet Ministers, 12% of parliamentarians, and 43% of Senators were women; and in the public service, women held 78% of the Director posts and 57% representation in local governments.

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
Gender: The Project will likely affect men and women differently, as the type of employment opportunities provided by the Project are more likely to be directed towards men.	✓ Community Grievance Mechanism ✓ Engagement with women ✓ Target employment goals for women ✓ Non-discrimination and gender-based-violence policies	POSITIVE

Worker Influx

Existing Conditions:

- According to the Bahamas' 2010 Census, in 2010 there was a total immigrant population of 64,793. 47% were born in Haiti, 16% in the United States, 13% in Jamaica and 3% each in Canada and the United Kingdom. Haitian immigrants are in a vulnerable situation in Abaco.



Foreign-Born Population (2010 Census)

Impact Description	Potential Mitigation Measures	Impact Significance Post-Mitigation
<u>Worker Influx</u>: There will be an increase in population influx during construction, operations and closure activities.	✓ Security Management Plan ✓ Grievance Mechanism ✓ Local Employment and Local Supplier Plan ✓ Workers' Accommodation Plan and Checklist ✓ COVID-19 Contingency Plan	

Management Plans

Environmental and Social Management Plans (ESMP)

- ❑ Contractor Management Plan
- ❑ Erosion and Sediment Control Management Plan
- ❑ Waste Management Plan
- ❑ Water Management Plan
- ❑ Transportation Plan
- ❑ Natural Disaster Risk and Emergency Management Plan
- ❑ Emergency Response Plan
- ❑ Occupational Health and Safety Management Plan
- ❑ Labor Conditions and Workers Selection Plan
- ❑ Internal and External Grievance Mechanisms
- ❑ Community Health and Safety Plan
- ❑ Stakeholder Engagement Plan
- ❑ COVID-19 Contingency Plan

Grievance Mechanism

Grievance Mechanism

- Community and internal workers' grievance mechanisms will be available.
- These will provide a framework through which to ask questions, raise suggestions or file complaints.
- Protection from retaliation and confidentiality are guaranteed

MoF will ensure that the mechanisms are:

Understandable and reliable

Culturally appropriate and accessible

Free of charge

Anonymous

Proportional

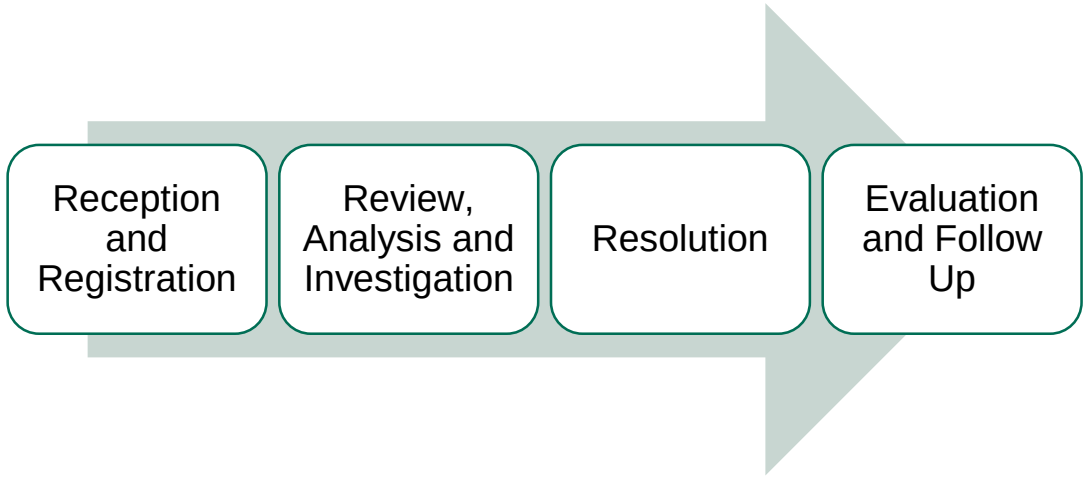
Rights-Compatible

Inclusive and non-discriminatory

Transparent

Grievance Mechanism Continued

In order to ensure the proper implementation of the Grievance Mechanisms, and the resolution of any feedback received, this mechanism is divided into four main steps. These steps are presented in the figure below.



Grievance Mechanism Ct’d

- Reception channels (email, telephone number) will be made available for issuing questions, suggestions or complaints.
- A Workers’ Grievances Mailbox placed within the Project’s facilities. The mailbox’s precise location will be shared with workers during their hiring process.
- A Community’s Grievances Mailbox will be also available. The mailbox’s precise location will be shared with the community during public consultation and other disclosure of information events.

Questions & comments from the audience

THANK YOU!

EMAIL: **RECONRENEWABLEENERGY@BAHAMAS.GOV.BS**

PHONE: **(242)-604-1032**

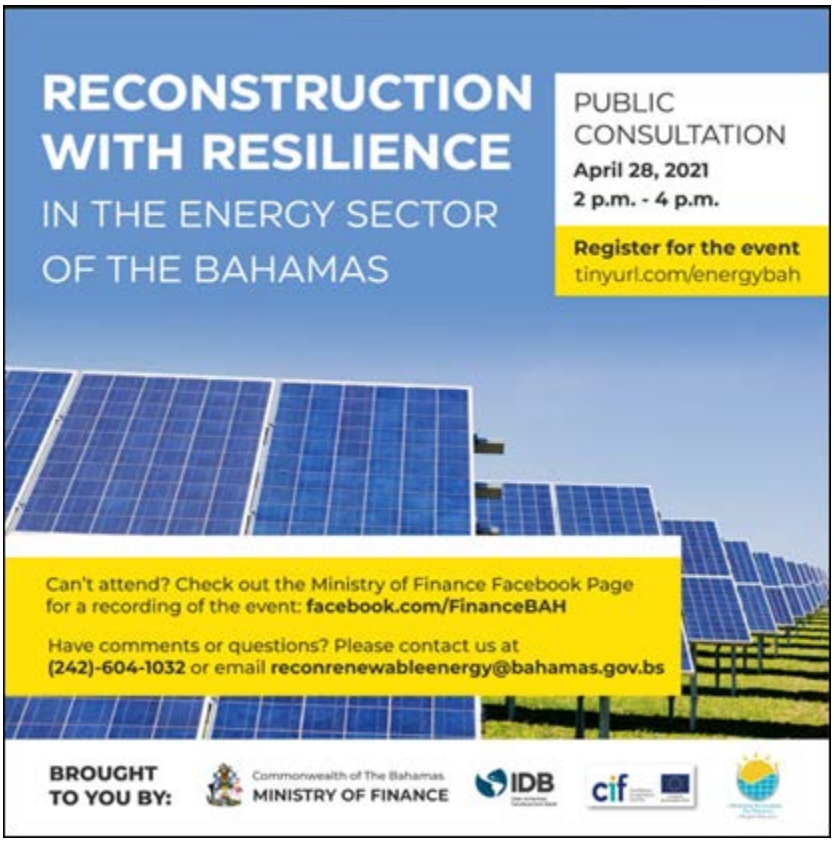
Commonwealth of The Bahamas
MINISTRY OF FINANCE

IDB
Inter-American Development Bank

cif Caribbean Investment Facility

ERM

Appendix B –Information Flyers for Stakeholders



Appendix C – Zoom Registration List

Attendee Report

Report Ge	4/28/2021 15:36							
Topic	Webinar ID	Actual Start Time	Actual Duration (minutes)	# Registered	# Cancelled	Unique Viewers	Total Users	Max Concurrent Views
Reconstru	991 3588 8337	4/28/2021 13:37	115	86	0	57	88	0

Host Details

Attended	User Name (Original Name)	Email	Join Time	Leave Time	Time in Session (minute	Country/Region Name
Yes	Master Control	burton@movigroup.bz	4/28/2021 13:44	4/28/2021 15:31	108	Bahamas

Panelist Details

Attended	User Name (Original Name)	Email	Join Time	Leave Time	Time in Session (minute	Country/Region Name
Yes	JPAREDES	JPAREDES@iadb.org	4/28/2021 14:05	4/28/2021 15:31	86	United States
Yes	Broadcast 2	av@themovigroup.com	4/28/2021 13:49	4/28/2021 15:31	103	Bahamas
Yes	Malaika Masson (MALAIKAC)	MALAIKAC@iadb.org	4/28/2021 13:49	4/28/2021 15:31	103	Jamaica
Yes	Daniela Marquis (DANIELAC)	DANIELAC@iadb.org	4/28/2021 14:05	4/28/2021 15:00	55	Bahamas
Yes	Stanford Moss	STANFORDMOSS@BAHAMAS.GOV.BS	4/28/2021 13:37	4/28/2021 13:37	1	Bahamas
Yes	Stanford Moss	STANFORDMOSS@BAHAMAS.GOV.BS	4/28/2021 13:37	4/28/2021 15:31	115	Bahamas
Yes	Sophia Raithel	Sophia.Raithel@erm.com	4/28/2021 14:00	4/28/2021 15:30	91	United States
Yes	Sonia Cuesta	sonia.cuesta@erm.com	4/28/2021 13:37	4/28/2021 15:31	115	United States
Yes	Marlon Johnson (Mavis Culm	mavisculmer@bahamas.gov.bs	4/28/2021 13:48	4/28/2021 15:31	104	Bahamas
Yes	SYRETAR	SYRETAR@iadb.org	4/28/2021 13:49	4/28/2021 15:10	82	Bahamas
Yes	Alessandro Sidore (ASIDORE)	asidore@iadb.org	4/28/2021 13:37	4/28/2021 15:31	115	United States
Yes	ALBERTOEL	ALBERTOEL@IADB.ORG	4/28/2021 13:37	4/28/2021 15:31	115	Bahamas
Yes	Fritz Brave	fritz@movigroup.bz	4/28/2021 13:37	4/28/2021 15:31	115	Canada
Yes	Herbert Pirela	Herbert.Pirela@erm.com	4/28/2021 13:37	4/28/2021 15:31	115	United States
Yes	Maricarmen Esquivel (MARIC	maricarmene@iadb.org	4/28/2021 13:59	4/28/2021 15:31	93	United States
Yes	SHERRILL POITIER	SHERRILLPOITIER@bahamas.gov.bs	4/28/2021 14:17	4/28/2021 15:31	75	Bahamas
Yes	FABIOLABC	fabiolabc@iadb.org	4/28/2021 13:51	4/28/2021 15:13	82	Guatemala

Attendee Details

Attended	User Name (Original Name)	First Name	Last Name	Email	Organization	Registration Time	Approval Status	Join Time	Leave Time	Time in Se	Country/Region Name
Yes	Avrom Thompson	Avrom	Thompson	athompson@urcabaha	The Utilities Regulation	4/26/2021 12:26	approved	4/28/2021 14:55	4/28/2021 14:57	2	Bahamas
Yes	J Graham	J	Graham	Jgraham@mmtraders	MMT SOLAR	4/23/2021 15:18	approved	4/28/2021 13:58	4/28/2021 15:31	94	Bahamas
Yes	Leona Hylton	Leona	Hylton	leonahylton@gmail.com		4/28/2021 13:56	approved	4/28/2021 13:57	4/28/2021 14:04	8	Bahamas
Yes	Leona Hylton	Leona	Hylton	leonahylton@gmail.com				4/28/2021 14:05	4/28/2021 15:26	82	Bahamas
Yes	Pratik Desai	Pratik	Desai	Pratik@perlemax.com	Perlemax Ltd.	4/27/2021 5:31	approved	4/28/2021 13:56	4/28/2021 15:08	72	United Kingdom
Yes	Jermaine Clarke	Jermaine	Clarke	ceasbahamas@hotma	Certified Energy Auditir	4/23/2021 14:58	approved	4/28/2021 13:58	4/28/2021 15:17	80	Bahamas
Yes	Broadcast 2	Broadcast		2 av@themovigroup.com		4/28/2021 13:49	approved	4/28/2021 13:49	4/28/2021 13:49	1	Bahamas
Yes	Zoltan Szasz	Zoltan	Szasz	besolarsupplies@gma	Bahamas Energy & Sola	4/24/2021 4:42	approved	4/28/2021 13:59	4/28/2021 15:09	70	Hungary
Yes	Krysta Carey	Krysta	Carey	krystacarey@gmail.co	QTech	4/27/2021 11:19	approved	4/28/2021 14:11	4/28/2021 14:31	20	Bahamas
Yes	Dwayne Bethell	Dwayne	Bethell	dbethell15@yahoo.co	The University of the Ba	4/24/2021 21:33	approved	4/28/2021 14:08	4/28/2021 15:31	84	Bahamas
Yes	Stephen Lester	Stephen	Lester	stephen.lester@flinter	Flint Engineering	4/27/2021 4:07	approved	4/28/2021 13:56	4/28/2021 14:41	45	United Kingdom
Yes	Andy Stofleth	Andy	Stofleth	astofleth@sbpusa.org	SBP	4/27/2021 11:18	approved	4/28/2021 14:15	4/28/2021 14:23	9	Bahamas
Yes	Menno Valkenburg	Menno	Valkenburg	menno.valkenburg@g	MVCC	4/24/2021 11:19	approved	4/28/2021 13:58	4/28/2021 15:18	81	Italy
Yes	Menno Valkenburg	Menno	Valkenburg	menno.valkenburg@gmail.com				4/28/2021 15:18	4/28/2021 15:31	14	Italy
Yes	Shantel Taylor	Shantel	Taylor	shanteltaylor@baham	Att General Office	4/28/2021 14:32	approved	4/28/2021 14:32	4/28/2021 15:13	42	Bahamas
Yes	Whitney Hylton	Whitney	Hylton	whylton@enlightennrg.com		4/28/2021 14:02	approved	4/28/2021 14:02	4/28/2021 15:31	90	Bahamas
Yes	John Chambers	John	Chambers	jchambers@quimerae	Quimera Energy Ltd	4/27/2021 9:26	approved	4/28/2021 13:59	4/28/2021 15:10	71	United Kingdom
Yes	Jonathan Hudson	Jonathan	Hudson	jhudson@urcabahama	URCA	4/27/2021 7:43	approved	4/28/2021 13:59	4/28/2021 15:31	92	United States
Yes	Wilfred Smith	Wilfred	Smith	wsmith@wmsholding	Green Fuel Enterprises,	4/24/2021 8:02	approved	4/28/2021 13:53	4/28/2021 15:31	99	Bahamas
Yes	Natario Mckenzie	Natario	Mckenzie	nmckenziebahamas@	Eyewitness News	4/28/2021 13:58	approved	4/28/2021 13:59	4/28/2021 15:17	79	Bahamas
Yes	Rahul Jain	Rahul	Jain	rahul.t.jain@pwc.com	PwC	4/24/2021 18:52	approved	4/28/2021 14:07	4/28/2021 15:28	82	United States
Yes	Rahul Jain	Rahul	Jain	rahul.t.jain@pwc.com				4/28/2021 15:28	4/28/2021 15:31	3	United States
Yes	Maria E Roca	Maria E	Roca	mariaero@iadb.org	IADB	4/27/2021 23:44	approved	4/28/2021 14:04	4/28/2021 15:31	87	Bahamas
Yes	Andrew Symonette	Andrew	Symonette	andrew.symonette@gmail.com		4/23/2021 15:01	approved	4/28/2021 14:01	4/28/2021 14:49	48	Bahamas
Yes	Wayne Williams	Wayne	Williams	Wayne@isi.consulting	Interconnection Systerr	4/23/2021 15:15	approved	4/28/2021 14:00	4/28/2021 15:31	92	United States
Yes	Karenda Swain	Karenda	Swain	kswain@bahamas.com	Ministry of Tourism	4/28/2021 13:49	approved	4/28/2021 13:49	4/28/2021 15:04	75	Bahamas
Yes	Owen Lewis	Owen	Lewis	olewis.contractor@rm	RMI	4/28/2021 13:37	approved	4/28/2021 13:59	4/28/2021 15:31	93	Anguilla
Yes	David McGregor	David	McGregor	david.mcgregor@eme	GBPC	4/26/2021 7:40	approved	4/28/2021 13:54	4/28/2021 15:31	98	Bahamas
Yes	Joanne Smith	Joanne	Smith	joanne@coralwave.co	Media Enterprises Ltd	4/25/2021 9:18	approved	4/28/2021 14:08	4/28/2021 15:31	83	Bahamas
Yes	Beryl Ferguson	Beryl	Ferguson	berylferguson@yahoo.com		4/28/2021 14:37	approved	4/28/2021 14:50	4/28/2021 14:56	7	Bahamas
Yes	Beryl Ferguson	Beryl	Ferguson	berylferguson@yahoo.com				4/28/2021 14:37	4/28/2021 14:50	13	Bahamas
Yes	Brandon Grosvenor	Brandon	Grosvenor	brandon.grosvenor@c	OPITO	4/26/2021 13:51	approved	4/28/2021 13:59	4/28/2021 15:25	86	United States
Yes	Heidi Fishpaw	Heidi	Fishpaw	heidif@iadb.org	IADB	4/28/2021 10:19	approved	4/28/2021 13:50	4/28/2021 15:16	86	United States
Yes	Blanca Ruiz	Blanca	Ruiz	BLANCA.RUIZ@shireo	Shire Oak	4/26/2021 15:45	approved	4/28/2021 14:12	4/28/2021 15:31	80	Colombia
Yes	Antoniea Hylton	Antoniea	Hylton	antonieahylton@gmail.com		4/28/2021 13:41	approved	4/28/2021 13:59	4/28/2021 14:58	60	Bahamas
Yes	Samuel Samón Thompson	Samuel Samón	Thompson	sthompson@urcabaha	Utilities Regulation and	4/26/2021 13:04	approved	4/28/2021 13:58	4/28/2021 15:31	94	Bahamas
Yes	Natasha Adderley	Natasha	Adderley	adderley_co@hotmail	Project Execution Unit	4/28/2021 10:11	approved	4/28/2021 13:56	4/28/2021 15:31	96	Bahamas
Yes	Trifeena	Trifeena		stellasgrove1979e@gmail.com		4/28/2021 14:28	approved	4/28/2021 14:28	4/28/2021 15:11	44	Bahamas
Yes	Ronnie Stevenson	Ronnie	Stevenson	ronnie.stevenson@ub	University of the Bahan	4/23/2021 16:22	approved	4/28/2021 13:55	4/28/2021 15:31	97	United States
Yes	Catherine Allinson	Catherine	Allinson	futureearthmail@gma	Future Earth Ltd	4/26/2021 15:41	approved	4/28/2021 14:01	4/28/2021 14:02	1	United Kingdom
Yes	Catherine Allinson	Catherine	Allinson	futureearthmail@gmail.com				4/28/2021 14:04	4/28/2021 14:36	32	United Kingdom
Yes	Catherine Allinson	Catherine	Allinson	futureearthmail@gmail.com				4/28/2021 14:59	4/28/2021 15:10	11	United Kingdom
Yes	Elvis A. Hepburn 1#	Elvis A.	Hepburn 1,	hepburn.elvis@yahoo.	The Hepburn Energy Gr	4/28/2021 10:17	approved	4/28/2021 14:07	4/28/2021 15:31	85	Bahamas
Yes	Kevin Basden	Kevin	Basden	kabasden@gmail.com	K A Basden & Associate	4/23/2021 20:35	approved	4/28/2021 13:56	4/28/2021 15:31	96	Bahamas
Yes	José Schiavi	José	Schiavi	Jose.Schiavi@aggreko	Aggreko PLC	4/27/2021 7:09	approved	4/28/2021 13:57	4/28/2021 15:31	95	United States
Yes	Philip S Weech	Philip S	Weech	Pswbest1@gmail.com		4/23/2021 15:11	approved	4/28/2021 13:52	4/28/2021 15:31	100	Bahamas
Yes	Daniela Romero	Daniela	Romero	DANIELAZUL@IADB.O	IDB	4/23/2021 15:11	approved	4/28/2021 14:03	4/28/2021 14:45	43	United States
Yes	Daniela Romero	Daniela	Romero	DANIELAZUL@IADB.ORG				4/28/2021 14:48	4/28/2021 15:01	13	United States
Yes	Christopher Evanich	Christopher	Evanich	christopher.evanich@	SE	4/26/2021 21:15	approved	4/28/2021 15:18	4/28/2021 15:18	1	United States
Yes	Dillon Hylton	Dillon	Hylton	dillonhylton@gmail.com		4/28/2021 10:02	approved	4/28/2021 13:49	4/28/2021 15:31	103	Bahamas
Yes	Pablo Gambin Belinchón	Pablo	Gambin Belinchón	p.gambin@energynau	Energynautics GmbH	4/28/2021 13:54	approved	4/28/2021 13:54	4/28/2021 14:48	54	Germany
Yes	Burnadene Falconer	Burnadene	Falconer	burnadene.falconer@pwc.com		4/26/2021 8:58	approved	4/28/2021 14:10	4/28/2021 15:13	63	United States
Yes	Horacio Lopez Manzitti	Horacio	Lopez Manzitti	horacio.manzitti@hive	Hive Energy	4/26/2021 14:20	approved	4/28/2021 13:57	4/28/2021 13:59	2	Argentina
Yes	Horacio Lopez Manzitti	Horacio	Lopez Manzitti	horacio.manzitti@hiveenergy.co.uk				4/28/2021 13:59	4/28/2021 14:48	50	Argentina
Yes	Audrey Ward	Audrey	Ward	audrey.ward@erm.com		4/23/2021 10:37	approved	4/28/2021 14:01	4/28/2021 15:31	91	United States
Yes	Kevin Cambridge	Kevin	Cambridge	kevin.cambridge@pw	PwC	4/27/2021 18:00	approved	4/28/2021 14:27	4/28/2021 14:29	2	Bahamas
Yes	Kevin Cambridge	Kevin	Cambridge	kevin.cambridge@pwc.com				4/28/2021 14:29	4/28/2021 15:30	61	Bahamas
Yes	Kevin Cambridge	Kevin	Cambridge	kevin.cambridge@pwc.com				4/28/2021 14:30	4/28/2021 14:30	1	Bahamas
Yes	Kevin Cambridge	Kevin	Cambridge	kevin.cambridge@pwc.com				4/28/2021 15:30	4/28/2021 15:30	1	Bahamas
Yes	Derick King	Derick	King	dwking406@gmail.com		4/28/2021 10:37	approved	4/28/2021 14:01	4/28/2021 14:04	3	Bahamas
Yes	Derick King	Derick	King	dwking406@gmail.com				4/28/2021 14:04	4/28/2021 15:31	88	Bahamas
Yes	Leonard Hülsmann	Leonard	Hülsmann	l.huelsmann@energyr	Energynautics	4/28/2021 3:54	approved	4/28/2021 14:01	4/28/2021 15:31	90	Germany
Yes	Derek Apfel	Derek	Apfel	derek@apfel.care	Island Solar Power	4/27/2021 18:00	approved	4/28/2021 13:56	4/28/2021 15:31	95	United States
Yes	Latrell R	Latrell	R	latrellr@iadb.org	IDB	4/27/2021 9:05	approved	4/28/2021 14:04	4/28/2021 15:31	88	Bahamas
Yes	ANTHONY HAMILTON	ANTHONY	HAMILTON	aknhlaw@yahoo.com	CIVIL SOCIETY BAHAMA	4/27/2021 11:26	approved	4/28/2021 13:48	4/28/2021 14:14	27	Bahamas
Yes	ANTHONY HAMILTON	ANTHONY	HAMILTON	aknhlaw@yahoo.com				4/28/2021 14:16	4/28/2021 15:31	76	Bahamas
Yes	Thomas Uptagrafft	Thomas	Uptagrafft	Powerplusbahamas@	Powerplus Bahamas	4/25/2021 7:10	approved	4/28/2021 13:59	4/28/2021 15:31	93	Bahamas
Yes	Patrice Ingraham	Patrice	Ingraham	patriceingraham@bal	MOF-CCU	4/27/2021 11:02	approved	4/28/2021 14:08	4/28/2021 15:31	84	Bahamas
Yes	Quentin Knowles	Quentin	Knowles	qknowles@flameless.c	Bahamas Society of Eng	4/23/2021 15:00	approved	4/28/2021 14:01	4/28/2021 15:31	90	Bahamas
Yes	ALDEN AUSTIN	ALDEN	AUSTIN	aaust012@gmail.com	RRESB	4/28/2021 9:14	approved	4/28/2021 14:00	4/28/2021 15:31	92	Bahamas
No	Philip	Philip	Holdom	Info@apsbahamas.co	Alternative Power Supp	4/23/2021 19:24	approved	--	--	--	
No	James	James	Hygate	james@greenfuels.co.	Green Fuels Ltd.	4/26/2021 13:56	approved	--	--	--	
No	Denica	Denica	Thompson	DenicaThompson@gr	Dvine7Management	4/26/2021 13:52	approved	--	--	--	
No	Brian	Brian	Smith	lmc_lumber242@yah	Albuild Hardware & Lur	4/25/2021 22:08	approved	--	--	--	
No	Floda	Floda	Pearce	floda_pearce@hotmail.com		4/27/2021 22:20	approved	--	--	--	
No	Kidan	Kidan	LaCroix	kidanbrown@gmail.com		4/28/2021 11:27	approved	--	--	--	
No	Philipp	Philipp	Feller	philipp@compass-pow	Compass Solar Systems	4/26/2021 16:40	approved	--	--	--	
No	Gehrig	Gehrig	Schultz	gehrig.schultz@epigro	EPI Ltd	4/27/2021 4:37	approved	--	--	--	
No	Jerusa	Jerusa	Ali	jerusa.ali@gmail.com	British High Commissio	4/26/2021 9:01	approved	--	--	--	
No	Juan	Juan	Valdes	juan.valdes@drabaha	Disaster Reconstructior	4/23/2021 14:40	approved	--	--	--	
No	Shevonn	Shevonn	Cambridge	scambridge@urcabah	Utilities Regulation & C	4/26/2021 12:27	approved	--	--	--	
No	Steve	Steve	Whettingsteel	Steve.w@krysteline.cc	Krysteline Technologies	4/26/2021 15:31	approved	--	--	--	
No	Bianca	Bianca	Munroe	Biancaamunroe@outlook.com		4/23/2021 16:01	approved	--	--	--	
No	Jessica	Jessica	Wallace-Whitfield	jessica@barefootmark	Barefoot Marketing	4/23/2021 14:47	approved	--	--	--	
No	Ned	Ned	Minns	ned.minns@itpenergis	ITPEnergised	4/27/2021 12:27	approved	--	--	--	
No	Natario	Natario	Mckenzie	nmckenzie@ewnews.c	Eyewitness News	4/27/2021 14:52	approved	--	--	--	
No	Rick	Rick	Gambetta	rick.gambetta@green	Greencrowd Partnershi	4/27/2021 10:00	approved	--	--	--	
No	Mark	Mark	Eastwood	mark.eastwood@glob	Global Tower Solutions	4/26/2021 14:51	approved	--	--	--	
No	Ancilleno	Ancilleno	Davis	ancilleno@scienceand	Science and Perspectiv	4/25/2021 18:26	approved	--	--	--	
No	Martin	Martin	Vogt	m.vogt@mpc-energys	MPC Energy Solutions	4/27/2021 9:06	approved	--	--	--	

No	Neilsen	Neilsen	Beneby	neilsen.beneby@emeracaribbean.com	4/26/2021 9:09	approved	--	--	--
No	Estella	Estella	Lewis	Stellasgrove@hotmail.com	4/24/2021 15:23	approved	--	--	--
No	Leopoldo	Leopoldo	López	Leopoldo.lopez@aggre	Aggreko	4/27/2021 9:30	approved	--	--	--
No	Bryann	Bryann	Hepburn	bhepburn@urcabahar	URCA	4/26/2021 12:30	approved	--	--	--
No	Darren	Darren	Berman	d.berman@nakedener	Naked Energy	4/26/2021 13:55	approved	--	--	--
No	Fidel	Fidel	Neverson	fneverson.contractor@	RMI	4/26/2021 8:49	approved	--	--	--
No	John	John	Williams	johnrwilliams@baham	CCU	4/27/2021 11:28	approved	--	--	--
No	Tevin	Tevin	Bannister	tevinbannister@bahar	Bahamas Government	4/26/2021 10:17	approved	--	--	--
No	Adrian	Adrian	Ortega	adrianor@iadb.org	IDB	4/26/2021 10:11	approved	--	--	--

Appendix D – Questions and Answers Register (Q&A Function)

Question Report

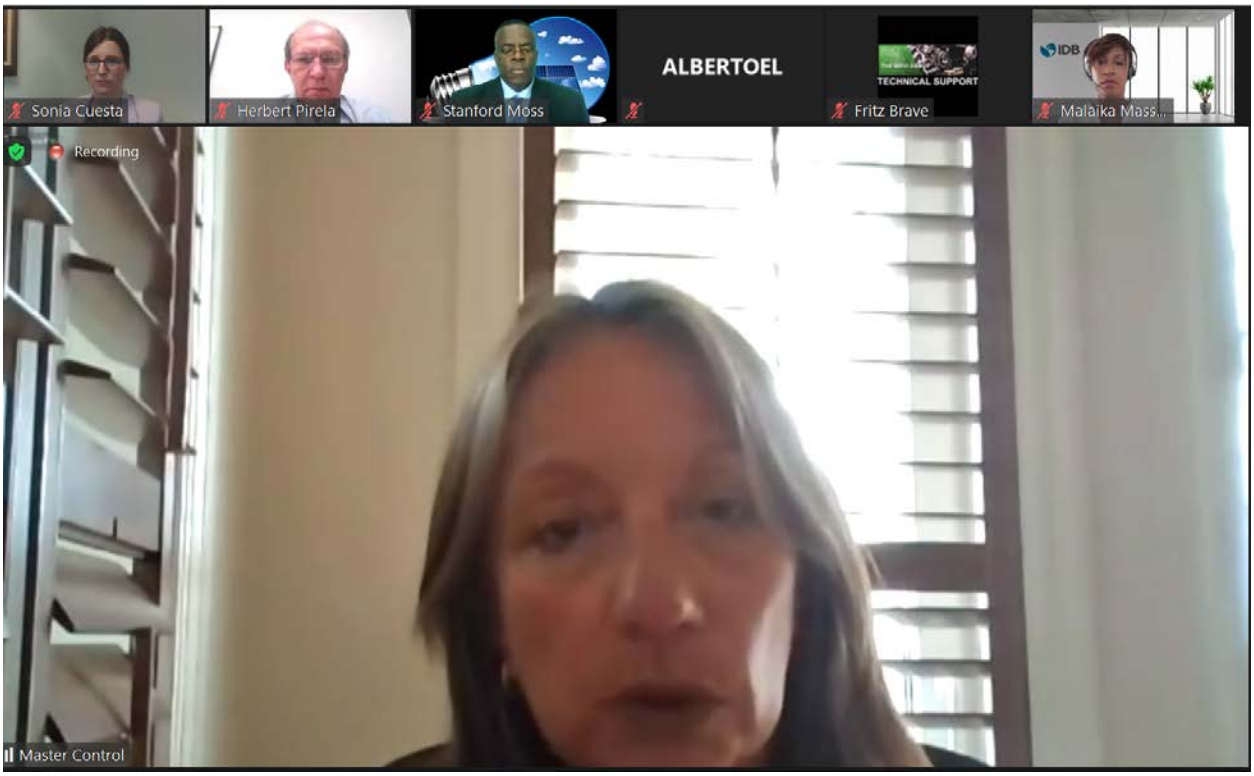
Report Generated:	4/28/2021 15:37		
Topic	Webinar ID	# Question	
Reconstruction with Resilience in the Energy Sector, M	991 3588 8337	26	

Question Details

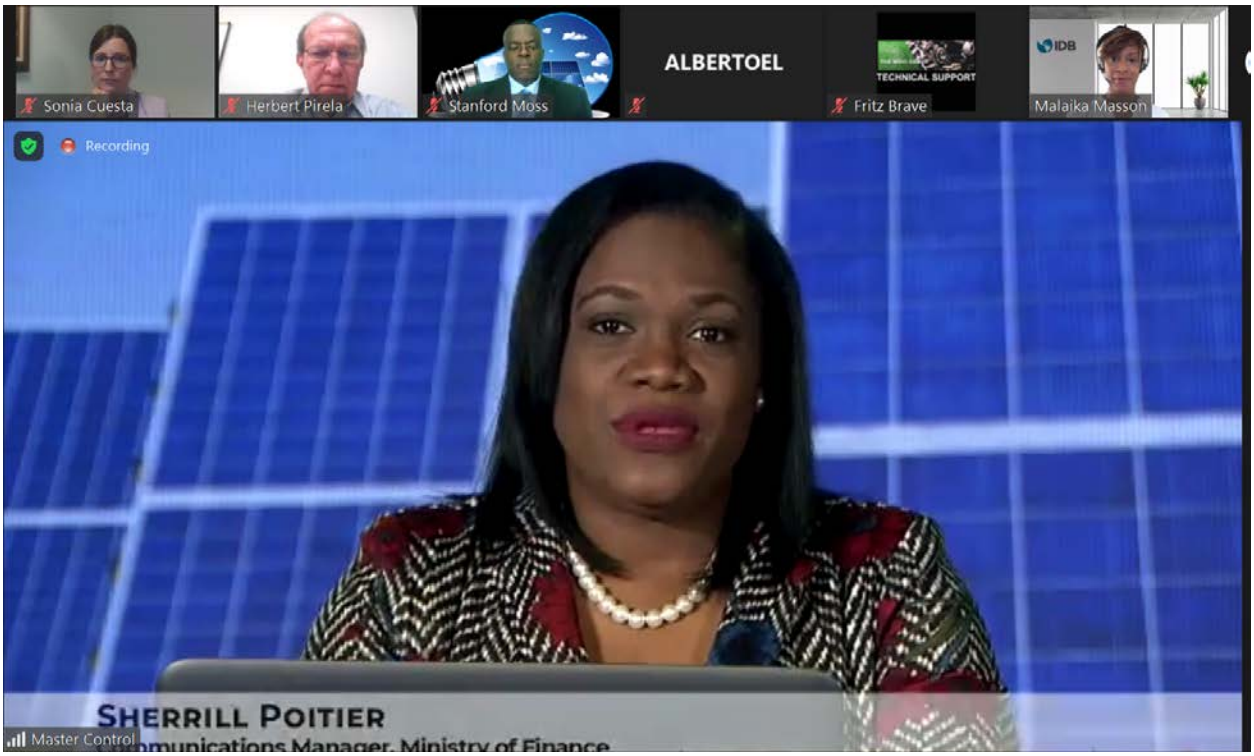
#	Question	Asker Name	Answer(s)		
1	How big is the audience on this webinar?	Wayne Williams	Dear Wayne, the webinar at the moment counts with 67 participants - the recording of the event will be posted in the Ministry of Finance Facebook page, for those who were not able to attend. Thanks!	Please note that the event is also been livestreamed in Ministry of Finance Facebook page - (https://www.facebook.com/FinanceBAH/)	
2	Good afternoon; Dr. Masson when was the $170 million secured by the Ministry of Finance? Was the $170 million a loan, what was the interest rate and what is the years for repayment?	Wilfred Smith	All information on the CCLIP and its first loan/project (BH-L1048) can be found on IDB website https://www.iadb.org/en/project/BH-L1048		
3	Is the resilient analysis for the Marsh Harbour microgrid publicly available? If yes, could you please share the link to it?	Pablo Gambin Belinchón	Dear Pablo - thanks for your interest, the resilience analysis will be made available in the following webpage: " https://www.iadb.org/en/project/BH-G0003 "- by the next two weeks. Thanks!		
4	We are a national (USA) EPC Renewable Energy organization. We have been looking at different opportunities in the Caribbean. Currently we are in discussions with several parties within the Bahamas. What is BPL's appetite to allow renewables onto their grid?	Wayne Williams	We are working with BPL, URCA and other key energy stakeholders to promote resilient, renewable energy in the Bahamas		
5	Will a copy of the presentations be provided to the participants?	ANTHONY HAMILTON	Dear Anthony, the full recording of the presentation will be available in the Facebook page of the Ministry of Finance (https://www.facebook.com/FinanceBAH/) - thanks!		
6	How do we get on the list for these requests for proposals? We would have liked the opportunity to bid on the projects Stan just spoke about. I realize they are gone, but the future ones are of great interest.	Wayne Williams	live answered	Dear Wayne, please visit the website https://www.iadb.org/en/projects/project-procurement for current and future procurement opportunities for this program.	
7	Thank you Dr. Masson.	Wilfred Smith	_		
8	Goof afternoon Mr. Moss: What is the cost per (kWh) for the 2.25MW Solar PV and battery storage project mentioned.	Wilfred Smith	Hello Mr. Wilfred Smith, thanks very much for your question. The program execution unit will provide you with the cost per (kWh) for solar PV system installed, which averages around$2.73. The cost per (KWh) for the 2.25MW microgrid system will be fortcoming.		
9	Good afternoon everyone:	Dwayne Bethell	Good afternoon Dwayne - thanks for participating!		
10	Thank you so much.	Wayne Williams	_		
11	What is the current carbon foot print of The Bahamas relating to carbon emissions ?	Dwayne Bethell	Dear Dwyne, the estimated CO2 emissions (metric tons per capita) for The Bahamas are provided below: https://data.worldbank.org/indicator/EN.ATM.CO2E.PC?locations=BS Thanks!		
12	Thank you Mr. Moss.	Wilfred Smith			
13	Received with thanks. I really appraciate it.	Dwayne Bethell			
14	Is there any coordination with the Disaster Reconstruction Authority as it relates to the Environment Studies and the Resilence Plan?	Kevin Basden	Dear Kevin, thanks for your question. During the development of the project and prior to the commencement of the construction activities, the PEU and the EPC contractor will make all the due arrangements with all authorities, including the DRA, to account for other interventions occurring in the island (affecting, for example, transportation and accessibility to the site, access to services and utilities), and, where necessary, establish the appropriate coordination.		
15	Dear Mr. Moss, the above figures don't look correct. Maybe some confusion with kW and kWh.... and/or installed cost per kW vs. Long Term Energy Cost per kWh?	David McGregor	Hello Mr. McGregor, thanks for your comments, we will persue this discussion further. Please email us your question.		
16	Who will own the system(s)? What will be URCA, BPL role? who will be responsible for maintance and insurance for replacement in the event of Loss from hurricaines?	Philip S Weech	Dear Philip, Thanks for your question. The role of different stakeholders is under discussion and revision and will be communicated during the bidding processes of the systems.		
17	One of the presenters mentioned training what are the plans and when will the program start?	Derick King	The Environmental and Social Assessment's Management Plans include provisions for training under each Management Plan. Most of these training guidelines will apply to Project workers. In addition, to promote local hiring, there will be an intiative to provide access to training to Bahamians. This plan will be developed in further detail by the PEU and EPC.		
18	Thank you	ANTHONY HAMILTON			
19	Are there any special considerations by the Bahamas' government with regards to waiving of duties or VAT for these renewable energy projects?	Wayne Williams			
20	Due to the limited skills and experiences of Bahamian Business persons throughot the Commonwealth, what protection privilges will Bahamian Businesses or owners be assured of with given the first opportunity?	Elvis A. "Hepburn 1	which will be developed by the PEU and EPC contractor."		
21	Do microgrids fall under BPL jurisdiction if they are not connected to the grid?	Wayne Williams	All microgrids financed by the program will connect to the public network but will have the ability to work in an islanded mode to increase resiliency of the system. In that sense interconnection of those systems with the grid will be regulated and coordinated with the corresponding utility.		
22	Will this concessionary loan infrastructure investment lower the cost of electrical energy to consumers, and help reduce the level of government subsidy to BPL?	David McGregor			
23	Will Bahamas Customs Duties and VAT be Waived?	Elvis A. "Hepburn 1	the IDB and the European Union for being transperant and accountable."	Wilfred Smith	wsmith@wmsholdings.com
25	Thank you Financial Secretary and the MOF	Wilfred Smith			
26	I represent Powerplus Bahamas and have participated in a number of government bid processes over the years and have included some of our international partners. However; these recent RFP's seem to have new financial standards and reqirements that make it difficult for small to medium locally licensed alternative energy businesses or companys from partipating. We have already seen a number of solar projects that have gone to construction companies and does not seem to be supportive of promoting licensed alternative energy companies. What is driving these new high end standards and financial requirements?	Thomas Uptagrafft			

Appendix E – Photographic Evidence (April 28, 2021)

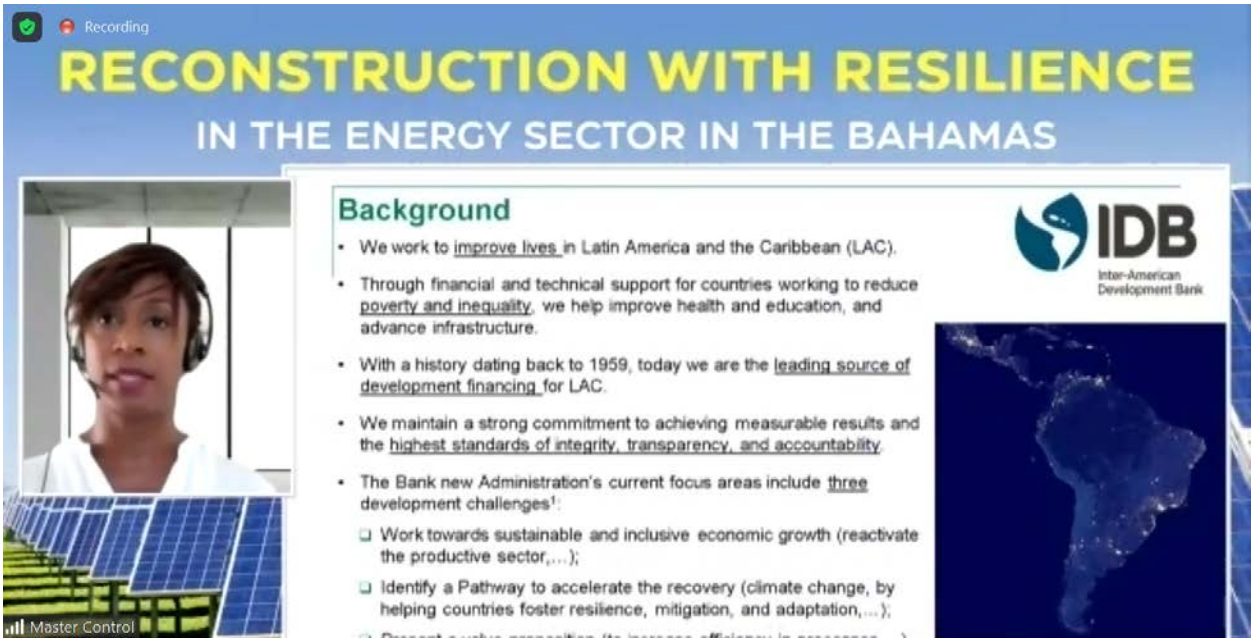
Marlon Johnson – Acting Financial Secretary – Opening Remarks



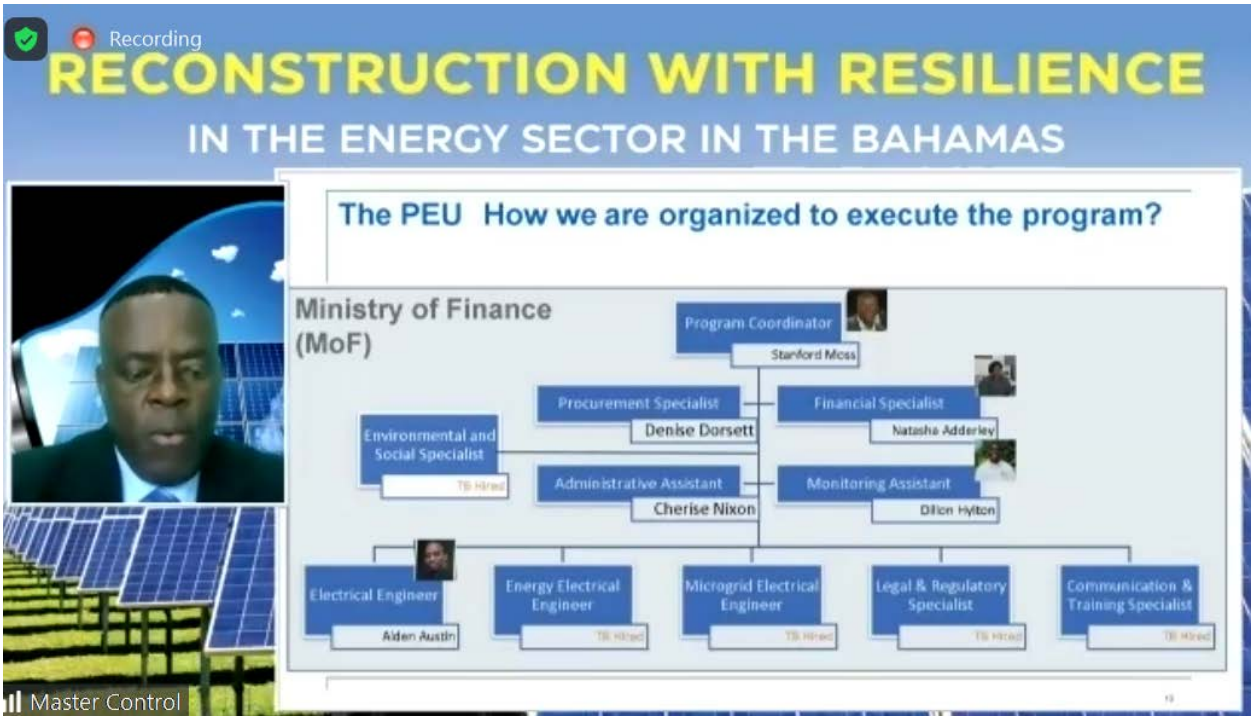
Daniela Carrera – IDB Country Representative – Opening Remarks



Sherrill Poitier – Communications Manager MoF – Moderator



Malaika Masson – IDB – Program Introduction and Background, Funding



Stanford Moss – Program Coordinator, PEU – Project Introduction and Overview, Executing Agency

Question and Answer

Open (3) | Answered (1) | Dismissed

PG **Pablo Gambin Belinchón** 02:26 PM

Is the resilient analysis for the Marsh Harbour microgrid publicly available? If yes, could you please share the link to it?

Answer live | Type answer

WW **Wayne Williams** 02:27 PM

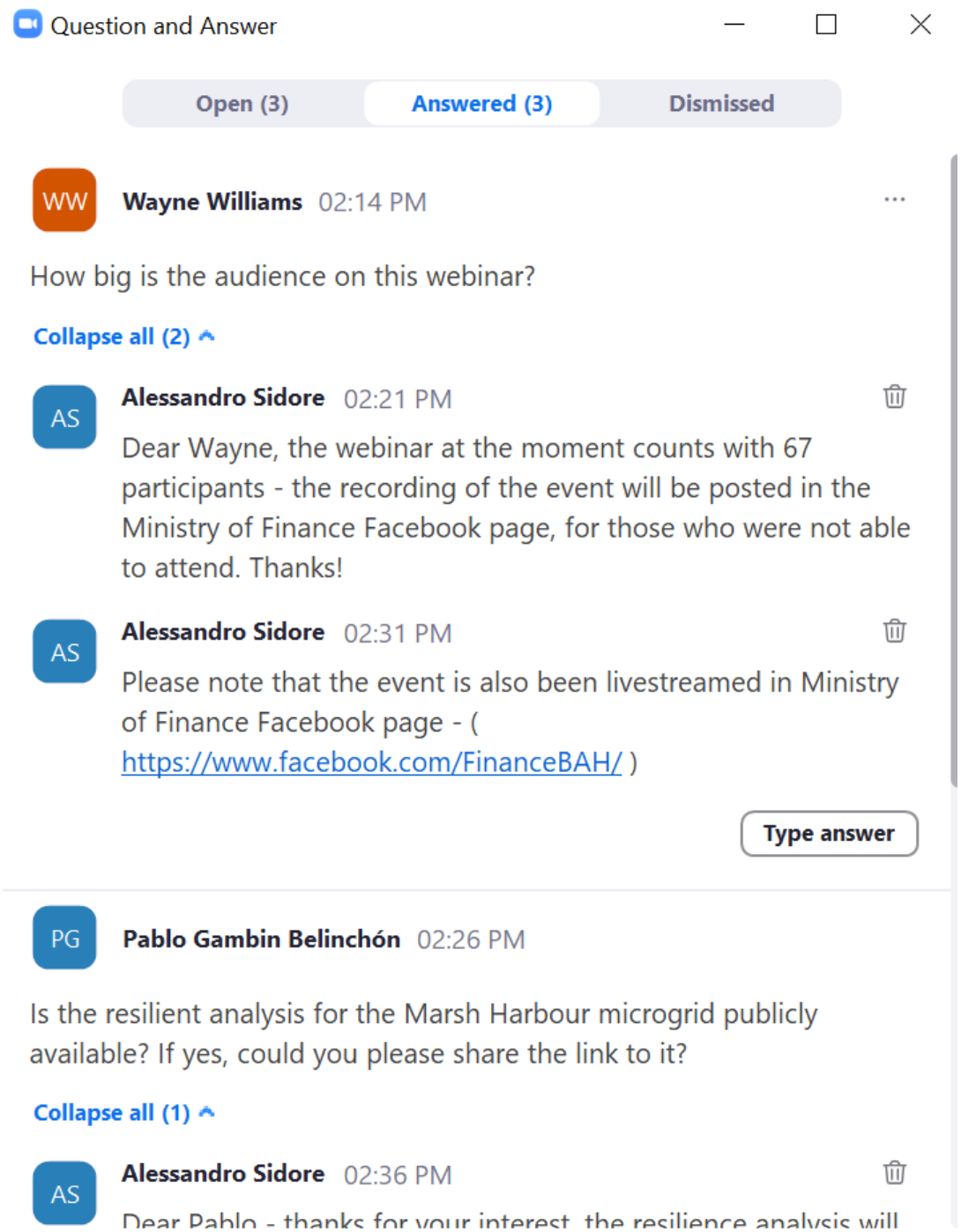
We are a national (USA) EPC Renewable Energy organization. We have been looking at different opportunities in the Caribbean. Currently we are in discussions with several parties within the Bahamas. What is BPL's appetite to allow renewables onto their grid?

Answer live | Type answer

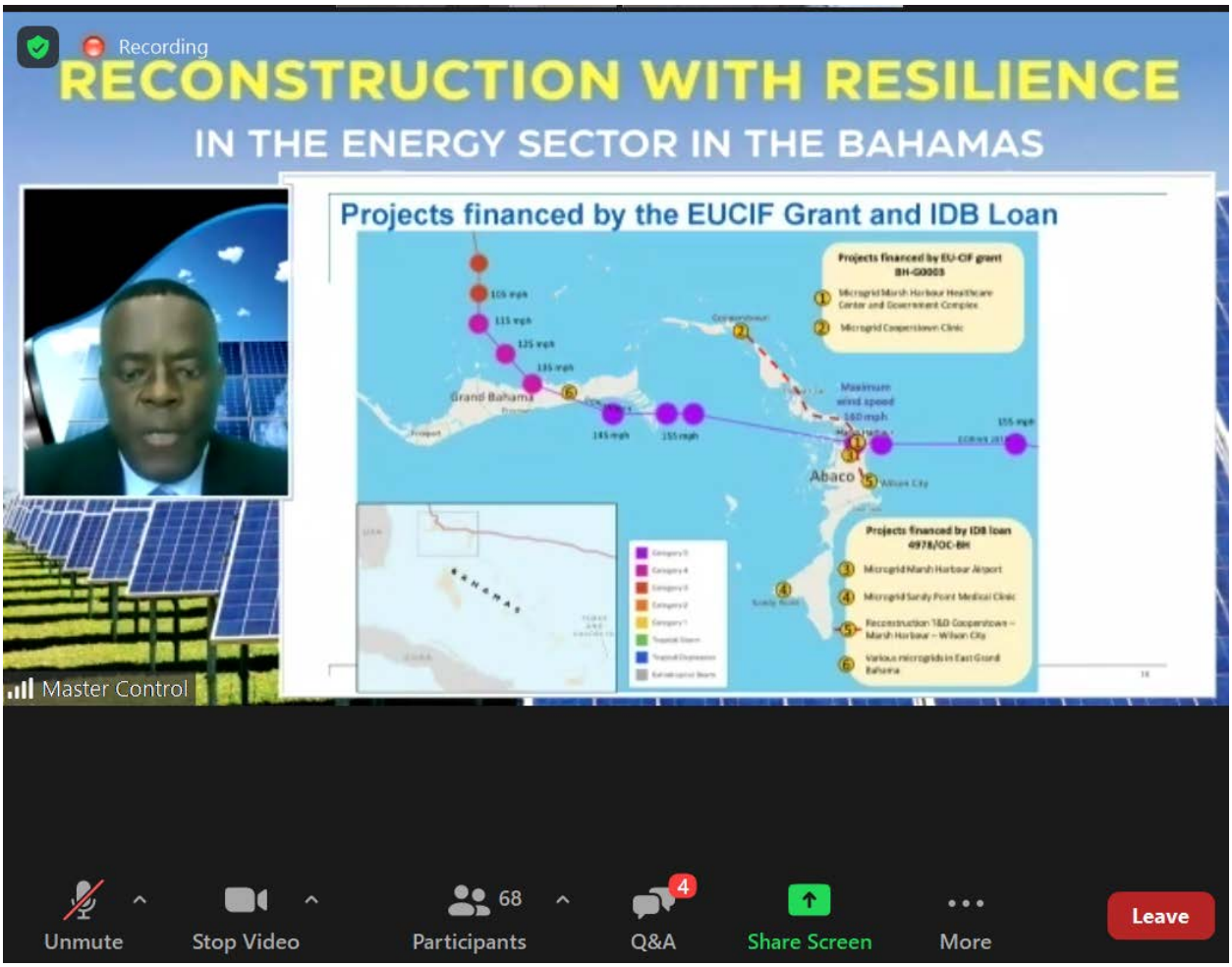
WS **Wilfred Smith** 02:31 PM

Good afternoon; Dr. Masson when was the $170 million secured by the Ministry of Finance? Was the $170 million a loan, what was the interest rate and what is the years for repayment?

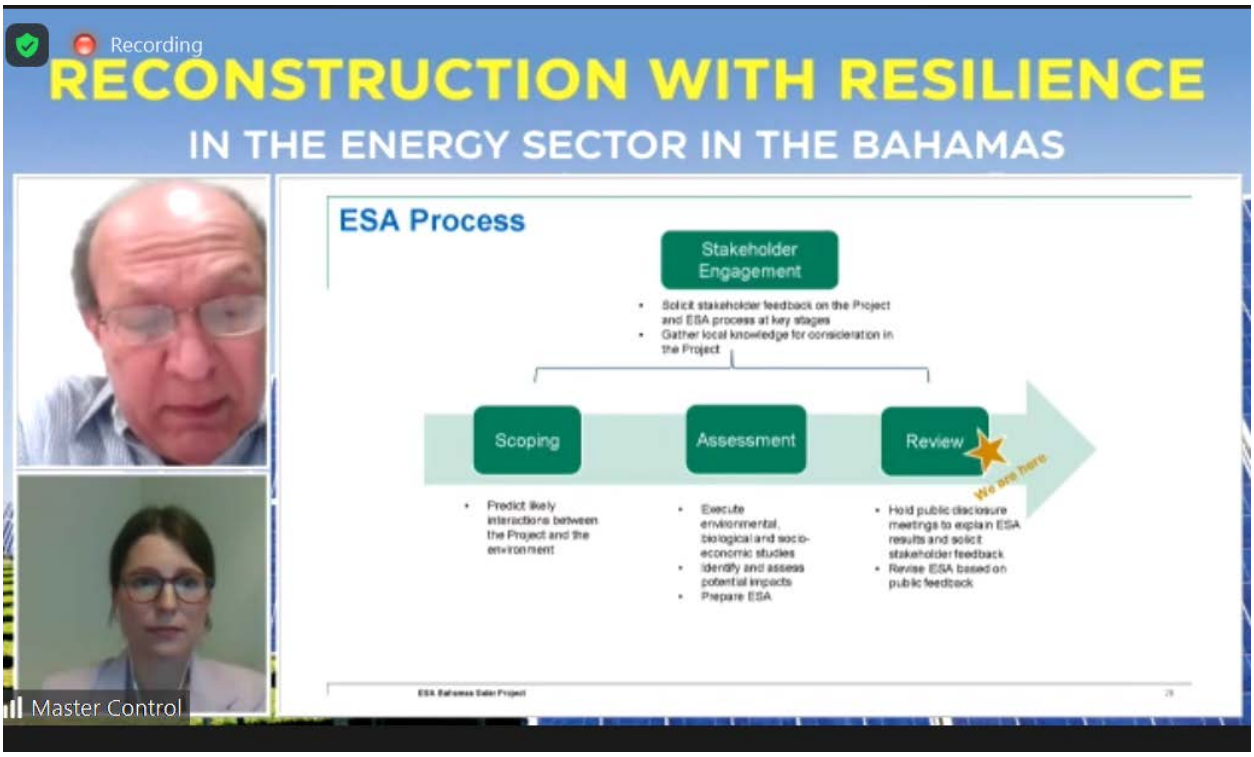
Answer live | Type answer

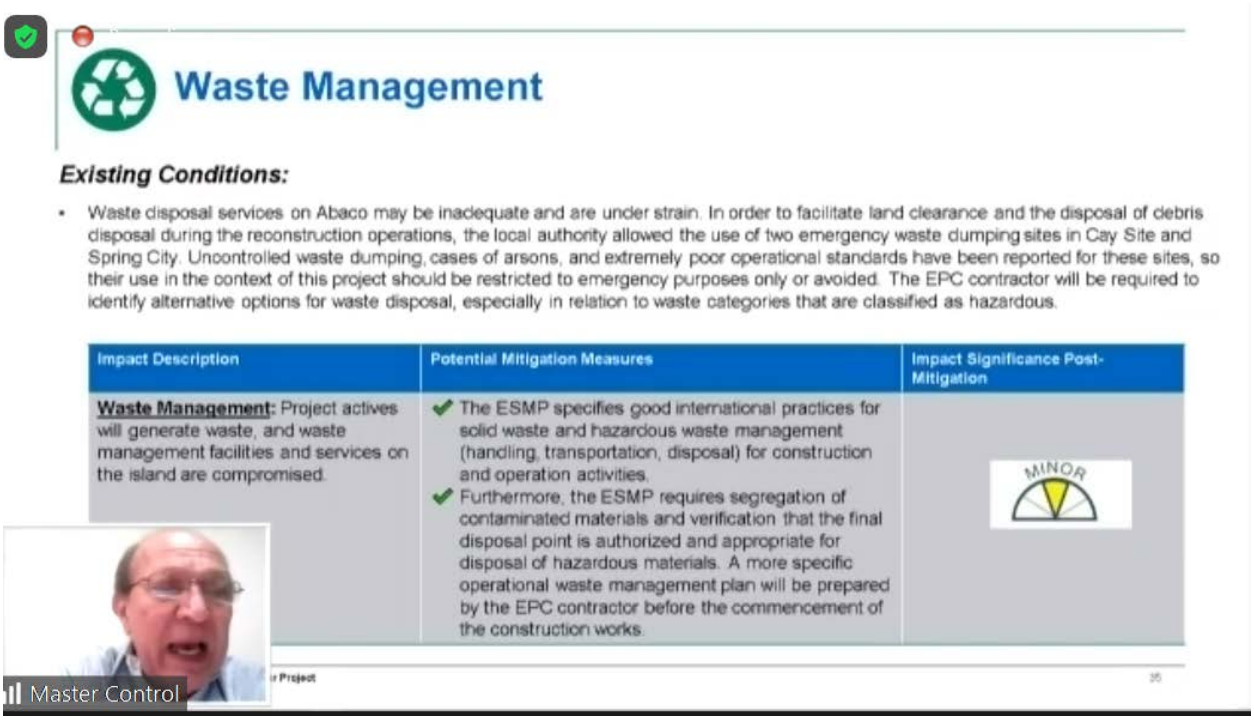


Live Q&A during consultation and example of answered questions



Presentation showing Q&A features and number of participants





ERM Presentation – Sonia Cuesta and Herbert Pirela

Live Q&A Session

Appendix F – Stakeholder List

BH-G0003 PUBLIC CONSULTATION: STAKEHOLDER LIST

No	Name	Institution	E-mail
1	Deborah H. Deal	Bahamas Chamber of Commerce and Employer´s Confederation (BCCEC)	contemporarybuilders@gmail.com
2	Jeffrey Beckles	Bahamas Chamber of Commerce and Employer´s Confederation (BCCEC)	jbeckles@thebahamaschamber.com
3	Quentin Knowles	Bahamas Society of Engineers	qknowles@flameless.com
4	Kevin Basden	Bahamas Society of Engineers	kabasden@gmail.com
5	Neilsen Beneby	Bahamas Society of Engineers	na.beneby@gmail.com
6	Robert Sands (President)	Bahamas Hotel and Tourism Association	bhta@bahamashoteltourism.org
7	Dennis Martin	Bahamas Gaming Operators Association (BGOA)	rg@bghoa.org/bahamasgaming@coralwave.com
8	Dwayne Wallace	Rotary Abaco	ageast@rotarybahamas.com
9	Amanda Lindroth	Lindroth Development Company	orders@amandalindroth.com
10	Michael Neutelings	Childrens Bay Cay	michel@miloresorts.com
11	Philipp Feller	Super Green Solutions Bahamas	p.feller@supergreensolutions.com
12	Rande Nicolls	Super Green Solutions Bahamas	r.nicolls@supergreensolutions.com
13	Philipp Feller	Compass Solar	philipp@compass-power.com
14	Philip Holdum	APS Bahamas	philip@apsbahamas.com
15	Guilden Gilbert	Alternative Power Systems	guilden@apsbah.com
16	Marvin Wilfred Smith	WMS	marvinsmith92@hotmail.com
17	Bruce Claridge	Nassau Hotel and Restaurant Supplies	bruce.nhrs@gmail.com
18	Graham Weatherford	Sure Solar	grahamweatherford@icloud.com
19	Darren McCartney	Solar Freedom	solarfreedom242@gmail.com
20	Sam Duncombe	Solar Power Shower	solarpowershower@gmail.com
21	Raynard McDonald	Mac Electrical and Solar Contracting	info@macelectricalco.com
22	Mr. Graham	MM Traders	SMMTraders@mmtradersltd.com
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54	Burlington Strachan	Bahamas Power and Light (BPL)	bfstrachan@bplco.com
55	Ian Pratt	Bahamas Power and Light (BPL)	IDPRATT@bplco.com
56	Shevonn Cambridge	URCA	scambridge@urcabahamas.bs
57	Jonathan Hudson	URCA	jhudson@urcabahamas.bs
58	Richard Brown	URCA	rbrown@urcabahamas.bs
59	Tevin Bannister	Prime Minister's Delivery Unit (PMDU)	tevinbannister@bahamas.gov.bs
60	Katherine Smith	Disaster Reconstruction Authority (DRA)	katherine.smith@drabahamas.org
61	Juan Valdes	Disaster Reconstruction Authority (DRA)	juan.valdes@drabahamas.org
62	John Clarke	Disaster Reconstruction Authority (DRA)	JOHNMCLARKE@BAHAMAS.GOV.BS
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64	Kimberley Miller	Disaster Reconstruction Authority (DRA)	kim@drabahamas.org
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66	Camille Johnson	Ministry of Environment	camillejohnson@bahamas.gov.bs
67	Kevin McIntosh	Abaco Department of Housing	367-2157 kevinmcintosh@bahamas.gov.bs
68		Abaco Department of Environmental Health	
69	John Pinder	Abaco Department of Labor	johnapinder@bahamas.gov.bs
70	Terrece Bootle	Abaco Local Government Township	terrecebootle-bethel@bahamas.gov.bs
71	Donald Rolle	Central and South Abaco Board of Representatives	donaldrolle@bahamas.gov.bs
72	Maxine Duncome	Abaco Administrator's Office	maxineduncome@bahamas.gov.bs
73	Philip Weech	The Bahamas Environment, Science and Technology Commission (BEST)	philipweech@bahamas.gov.bs
74	Stephen Russell	National Emergency Management Agency (NEMA)	nema@bahamas.gov.bs stephenrussell@bahamas.gov.bs
75	Pakesia Edgecombe	Ministry of Disaster Preparedness, Management and Reconstruction	pakesiaparker-edgecome@bahamas.gov.bs
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77	Karen Seymour	Ministry of Tourism	kseymour@bahamas.gov.bs
78	Philip Weech	University of The Bahamas	Philip.Weech@ub.edu.bs
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80	Maria Oriakhi	University of The Bahamas	maria.oriakhi@ub.edu.bs
81	Ronnie Stevenson	University of The Bahamas	Ronnie.Stevenson@ub.edu.bs
82	Pablo Gambín Belinchón	Energynautics GmbH	p.gambin@energynautics.com
83	Leonard Hülsmann	Energynautics GmbH	l.huelsmann@energynautics.com
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85	David Gumbs	Rocky Mountain Institute (RMI)	dgumbs.contractor@rmi.org
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105	Rocio González	IDB	gc.rocio@gmail.com
106	Fabiola Baltodano	IDB	FABIOLABC@IADB.ORG
107	Emilio Angulo	IDB	EJANGULO@IADB.ORG
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