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Ministerial Side Event ***Building Resilient Infrastructure***

Fourth Ministerial Meeting of the Energy and Climate Partnership of the Americas

Energy Resilience and Investment Opportunities

Montego Bay, Jamaica | February 27-28, 2020 | 1:00 – 3:00 pm

Description: The percentage of people living in extreme poverty in the Americas has plummeted, with exceptions in a few countries. Unemployment rates are falling as economic growth rises and millions of people across the region have gained access to energy, water, and healthcare. However, a higher frequency and intensity of extreme weather events and other natural disasters, combined with very rapid urbanization and shrinking fiscal space, are unraveling decades of sustainable development gains. As the world's most urbanized developing region, Latin America and the Caribbean is particularly vulnerable to weather events that affect critical infrastructure and disrupt the risk-exposed urban settlements. Economic losses from disasters such as floods, droughts, hurricanes, fires, earthquakes and rising seas are hitting the poorest and most vulnerable hardest. It is important for countries to make efforts to prepare for, adapt to, and manage these risks.

The energy sector is particularly vulnerable to natural hazards, including extreme events like hurricanes and heat waves but also slow-onset events such as sea level rise and chronic droughts. Thus, building resilient energy infrastructure is critical to reduce vulnerabilities, minimize the impact of natural disasters, accelerate response and recovery and facilitate adaptation to disruptive events (D. Rehak, 2018). Addressing these disruptions and developing policies that strengthen energy resilience requires a holistic and system-wide approach.

This ECPA side event will bring together major stakeholders – countries, development partners, utilities, and private sector working in the energy sector – and provide a space to discuss the risks facing energy infrastructure and the role of planning, policy and financing for risk mitigation.



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Agenda

01:00pm	<p>Welcome remarks and introduction</p> <p>Organization of American States (OAS) Kim Osborne, Executive Secretary for Integral Development (SEDI), OAS</p> <p>The World Bank Tahseen Syed Khan, Director for the Caribbean region, The World Bank</p>
01:15pm	<p>Resilient and Sustainable Energy Infrastructure: Global and LAC Regional Issues</p> <ul style="list-style-type: none"> • Debabrata Chattopadhyay, Senior Energy Specialist, The World Bank
01:35pm	<p>Policy Panel</p> <ul style="list-style-type: none"> • H.E. Senator Simon Stiell, Minister for Climate Resilience, the Environment, Forestry, Fisheries, Disaster Management, Information, Grenada • Rolando Castro, Vice Minister of Energy, Costa Rica • H.E. Dr. Vince Henderson, Ambassador to the United and States and the Permanent Representative to the Organization of American States (OAS), Commonwealth of Dominica • Ivor Daniel, Permanent Secretary, Department of Infrastructure, Ports and Energy, Saint Lucia • Steven Olive, Senior Deputy Assistant for Latin America and the Caribbean, USAID <p>Moderator: Juan Cruz Monticelli, Section Chief, Sustainable Energy, OAS</p> <p>Q&A with Audience</p>
02:15pm	<p>Private Sector Panel</p> <ul style="list-style-type: none"> • Ricardo Case, Director of Engineering Services, Jamaica Public Service Co. (JPS) • Gillian Charles-Gollop, Executive Director, Corporate Investment Banking & Advisory, CIBC FirstCaribbean • Ricardo Hutchinson, Vice President – Investments – Portland Private Equity • Terry Dittrich, VP Government Affairs, Greenstar <p>Moderator: Neha Mukhi, Sr. Energy and Climate Change Specialist, The World Bank</p> <p>Q&A with Audience</p>
02:55pm	<p>Closing Remarks</p> <p>Cletus Springer, Director, Department of Sustainable Development, OAS</p>



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BIOGRAPHIES

KEYNOTE SPEAKER

Kim Osborne, Executive Secretary for Integral Development (SEDI), Organization of American States (OAS)



Kim Osborne is the Executive Secretary for Integral Development at the Organization of American States, with responsibility for the Development Pillar; one of the four pillars of the organization. For almost two decades, Ms. Osborne has dedicated herself to the socio-economic development of the Latin American and Caribbean region. As a pioneer of the OAS Small Tourism Enterprise Program, an internationally recognized best practice, she focused on assisting small and medium enterprises achieve competitiveness and profitability by combining internationally recognized standards with high-value products, targeted marketing and branding. She is co-author of the Business Management and Operations Manual for Small Hotels and led the tourism training and capacity building program in the region.

From 2008 to 2011, she was appointed as the OAS Country Representative to Belize and in that role managed the OAS' programs and relations with that country; navigating the political spectrum, while implementing numerous initiatives on sustainable livelihoods, institutional capacity building, tourism training and certification, women's empowerment, among others. Osborne is a founding member of the Center for Community Resource Development, an NGO set up to assist the most disadvantaged communities, by combating poverty through the application of an Asset Based Community Development (ABCD) methodology.

More recently, Osborne has served as the head of the Technical Cooperation Section at the OAS Secretariat for Integral Development where she led the Organization's Development Cooperation and partnerships program. In that capacity she spearheaded the re-structuring of the OAS Development Cooperation Fund and promoted the application of an alliance model to maximize multi-stakeholder partnerships for development and south-south cooperation.

Ms. Osborne has successfully negotiated and secured several partnership agreements with international and regional organizations to foster the work of the OAS in the hemisphere. She is a three-time winner of the organization's outstanding performance award and in 2016 was elected as President of the Staff Association, where she led the effort towards the establishment of the OAS' alternative work schedule scheme. She currently chairs the OAS Medical Benefits Trust Fund.

Before joining the OAS, Ms. Osborne was employed at the National Development Corporation of Dominica and has also held private sector positions in both Dominica and the Netherlands Antilles. She holds a Master's Degree in Public Administration with a concentration in Public Management and Bachelor's degree on Hospitality Management- Travel and Tourism Studies.

Tahseen Sayed, Country Director for Caribbean Countries, Latin America and Caribbean, World Bank



Tahseen Sayed is the World Bank Country Director for Caribbean countries. Ms. Sayed, a Pakistani national, is responsible for maintaining a solid partnership with nineteen Caribbean countries in support of their strategic priorities for economic growth and job creation. Prior to this, she has served in management positions in Europe and Central Asia Region, and the South Asia Region of the World Bank.

Ms. Sayed is a seasoned development professional with nearly 25 years of operational and leadership experience at the World Bank. She has a deep knowledge of Bank policies and instruments, country programs and a track record of strong delivery, results and innovation. She has demonstrated skills in client engagement and fostering partnerships. Her pre-Bank experience includes assignments in North America and the Middle East Region.

She holds a Master's degree in Law and Diplomacy specializing in Development Studies from the Fletcher School of Law and Diplomacy, Tufts University USA. She has also completed the Executive Development Program of the Harvard Business School, Harvard University, USA.

PRESENTER

Debabrata Chattopadhyay, Senior Energy Specialist, Energy Global Practice, The World Bank

Deb leads the Power Systems Planning Group of Energy Sector Management Assistance Program (ESMAP) of the World Bank in Washington DC. He is a power system engineer and economist with significant experience on energy market design and analysis to address market operation, planning and policy issues. He has taught electricity modelling and quantitative methods at University of Canterbury, New Zealand as an Associate Professor during 1997-2000. He has been a Director of Charles River Associates (CRA) and Deloitte between 2000-2012. Deb is also currently an Adjunct Professor of Electrical Engineering (Power System) at University of Queensland, and an Honorary Fellow of Department of Electrical and Electronic Engineering of University of Melbourne.



MODERATORS

Policy Panel

Mr. Juan Cruz Monticelli, Section Chief, Sustainable Energy, OAS



Mr. Monticelli's career at the Organization of American States spans 20 years. Since 2014, he is in charge of the Sustainable Energy Program of the Department of Sustainable Development. Through his work, he supports the governments of Latin America and the Caribbean in their efforts to advance resilience and expand the use of renewable energy and energy efficiency technologies. Between 2001 and 2005, he worked on integrated water



resources management and regional planning in Latin America and the Caribbean. Between 1999 and 2000 he contributed to the development of civil society participation policies for the Inter-American Strategy for Public Participation. Mr. Monticelli wrote several papers on energy, water, biodiversity and the impact of integration and trade liberalization on the environment. In 2001, Mr. Monticelli worked with the World Bank's Environmentally and Socially Sustainable Development and International Law Group in the preparation of a compendium of participatory environmental legislation and institutions in Latin America, the Caribbean Region, and Africa. As a consultant for the Administrative Tribunal of the Inter-American Development Bank, he conducted a comparative analysis of the regulations of the Administrative Tribunals of international organizations.

Mr. Monticelli has a Law degree from Universidad Católica Argentina. In 2003 he earned his Master of Laws at George Washington University, where he specialized in Intellectual Property. While attending Law School in Argentina, he worked as a Registry Officer in a Court of Justice until 1996. Before he moved to the United States, he lived in Buenos Aires, where he practiced law and represented clients in commercial and civil matters. Mr. Monticelli is fluent in English, French and Spanish.

Private Sector Panel

Neha Mukhi, Senior Specialist – Energy and Climate Change, The World Bank



Neha Mukhi is a Senior Specialist at the World Bank (WB) based in Washington, DC. Her work focuses on sustainable energy solutions including resilient and low carbon investments. Neha leads WB's work in the Caribbean region on energy resilience and renewables. Currently, she is leading the effort to enhance traditional integrated resource planning approaches to render them more 'climate resilient' in the Eastern Caribbean. Neha has also worked on energy efficiency and integrated resource planning in South Asia.

Prior to joining WB, she worked with ICF International's Energy and Climate team working in East Asia and South Asia. Neha has an M.S. in Energy and Climate from Harvard University and B.Engg. Civil and Environmental Engineering from Delhi Technological University.

PANELISTS

Policy Panel

H.E Senator Simon Stiell, Minister for Climate Resilience, the Environment, Forestry, Fisheries, Disaster Management, Information, Grenada



H.E Senator Simon Stiell is currently the Grenada Minister for Climate Resilience, the Environment, Forestry, Fisheries and Disaster Management. Prior to this, he was the minister of Education and Human Resource Development. Senator Stiell also served as the Parliamentary Secretary of the ministry he now presides. He has been part of the Grenada Parliament, working





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as a senator since 2013 where he was appointed as the Leader of Government's Business, a role that he's had since 2014. In 2010, Senator Stiell served as Director of Tourism of the Grenada Board of Tourism. Before joining the public service, Simon Stiell worked at Nokia, Dejima Europe and GEC Plessely Communications in the United Kingdom. H.E Stiell owns a company called Simply Caribbean dedicated to Residential and Commercial property development and management. He holds a Master of Business Administration from the University of Westminster.

Mr. Rolando Castro, Vice Minister of Energy, Costa Rica



Mr. Rolando Castro Córdoba has more than 24 years of professional experience and is the current Deputy Minister of Energy of the Ministry of Environment and Energy of the Republic of Costa Rica, previously served as Alternate Permanent Ambassador-Representative to the United Nations in New York ; He was Executive Director of the Center for Environmental Law and Natural Resources (CEDARENA). He has 21 years of experience as an International Consultant in environmental legislation and policy issues for organizations such as UNDP, UNIDO, GEF, PAHO, GIZ, USAID, IDB, CATIE, EPA, CARE, CI, WSPA, HIVOS, TNC. He has been professor of the Master of Environmental Management and Ecotourism and the Master of Environmental Law, as well as professor of the emphasis of Environmental Law in the Law Degree, all of the University of Costa Rica.

H.E. Dr. Vince Henderson, Ambassador to the United and States and the Permanent Representative to the Organization of American States (OAS), Commonwealth of Dominica



His Excellency Dr. Vince Henderson is the Ambassador of the Commonwealth of Dominica to the United and States and the Permanent Representative to the Organization of American States (OAS) in Washington, D.C., since September 2016. Prior to that he served as the Ambassador and Permanent Representative of the Commonwealth of Dominica to the United Nations (UN) in New York, for 6 years. From 2010 to 2017 he served as the chairman of the Government of Dominica Geothermal Negotiations Team and is currently Senior Advisor to the Government on geothermal energy development. He is a founding member of SIDS DOCK (an international organization of Small Island States dedicated to sustainable energy development) and served as chairman from 2011 to 2018. Dr. Henderson also serves as an energy advisor to CARICOM on the implementation of the Caribbean Renewable Energy Roadmap and Strategy (CSERMS) and in particular through its implementation through the Caribbean Centre for Renewable Energy and Energy Efficiency (CCREEE) located in Barbados. He is a co-founder of the CCREEE, and served on its steering committee from 2015 to 2018 and now serves as the first chairman of its Executive Board. He was elected to the Parliament of the Commonwealth of Dominica for two consecutive terms in 2000 and 2005. During that time he served as



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Minister of Housing and Physical Planning; Agriculture and the Environment; Education, Human Resource Development, Sports and Youth Affairs; and Foreign Affairs, Immigration and Labour. He holds a Doctor of Law and Policy degree from Northeastern University, Boston, Massachusetts, USA. He also holds a LL.M (master of laws) degree from Touro Law School in New York, a LL.B (Hons), a Bachelor of Science degree in Computer Science and a Diploma of Education.

Ivor Movelle Daniel, C.Dir, MBA, CPA/CGA, Permanent Secretary of the Ministry of Infrastructure, Ports, Energy and Labour, Saint Lucia



Mr. Ivor Movelle Daniel, Permanent Secretary of the Ministry of Infrastructure, Ports, Energy and Labour, has thirty (30) years' experience in public service of Saint Lucia. His public service career began with an appointment as an Audit Clerk in 1990, then with successive promotions eventually to Audit Principal in 1999. Mr Daniel served subsequently at the Ministry of Finance as Assistant Budget Director, followed by a promotion to Deputy Budget Director in 2004. In 2009, Mr. Daniel was appointed to the post of Deputy Permanent Secretary of the Ministry of Communication, Works, Transport and Public Utilities. In April 2017 he was promoted to Permanent Secretary of the Department of Infrastructure, Ports and Energy and by virtue of his position, is the Deputy Chairperson of the Saint Lucia Air and Sea Ports Authority (SLASPA).

Mr. Daniel holds a Master of Business Administration (MBA) from the Australian Institute of Business (AIB). He recently obtained the designation of Chartered Director (C.Dir), from the Caribbean Governance Training Institute. He also has the designation of Chartered Professional Accountant, Certified General Accountant (CPA/CGA), from the Chartered Professional Accountants of British Columbia. Mr. Daniel serves as a volunteer in the credit cooperative movement, having served recently as Director and Treasurer of the Civil Service Cooperative Credit Union Ltd from June 2016 to June 2019.

Mr. Daniel has always displayed a high level of professionalism, productivity and work ethics in all assigned duties. Under his guidance and administration, the Energy and Public Utilities Department has been able to achieve major accomplishments in electricity regulations and renewable energy. Mr. Daniel was involved in the successful completion of Saint Lucia's first utility scale 3MW solar farm and was instrumental in the recent success of Saint Lucia acquisition of a loan to construct a 10MW solar farm with 7MW battery storage. Mr. Daniel is actively involved in Saint Lucia's Geothermal Development Project and has worked with the Energy team in helping to building resilience in school's around the island through the installation of solar PV systems with battery storage. Mr. Daniel is dedicated to the achievement of Energy Independence in Saint Lucia and continues to strive in leading his Ministry and the Energy Department in building resilience to the adverse effects of climate change through renewable energy.



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Mr. Steven Olive, Senior Deputy Assistant for Latin America and the Caribbean, USAID.



Steve Olive is a Senior Foreign Service Officer and currently serves as the Senior Deputy Assistant Administrator for USAID's Latin America and Caribbean Bureau. He served as the Acting Director of the Foreign Service Center in the Office of Human Capital and Talent Management from 2017 to 2018. He served as the Deputy Mission Director for Somalia within the USAID/Kenya and East Africa Mission in Nairobi from 2014 to 2017. From

November 2016 until his departure from Kenya, he concurrently served as the Acting Deputy Chief of Mission, and occasionally, as the Charge d'Affaires for the U.S. Mission to Somalia.

Prior to joining USAID/Kenya and East Africa, Dr. Olive served as a Deputy Mission Director for USAID/Haiti, where he was the Interagency Coordinator for the Food and Economic Security Pillar and the Infrastructure, Energy, and Engineering Pillar under the USG Post-Earthquake strategy from 2011 to 2014. He also served in Peru and Nicaragua 2002- 2011, managing environment, trade, agriculture, food security and emergency-response programs.

Before joining USAID in 2000, Dr. Olive worked in Hawaii, Guam, and the Philippines as an environment and natural resource management and policy specialist. He was also a volunteer teacher in America Samoa from 1983 to 1985. He has a Ph.D. in Political Science from the University of Hawaii, a Master's in Public Administration from the University of Tennessee, and a Bachelor of Arts in Public Administration from Miami (Ohio) University. He is married to Cristina Olive, also a USAID Foreign Service Officer.

Private Sector Panel

Rick Case PMP, P.E. Director of Engineering Services, Jamaica Public Service Co. (JPS). Rick



Case has over 29 years in the electric utility industry and is currently the Director of Engineering Services at the Jamaica Public Service Company Ltd where he has the awesome responsibility for "Engineering the Grid of the Future!" This includes the medium to long term grid planning, engineering and construction for the Transmission and Distribution Systems, System Protection and Control, the Integration and Interconnection of Renewable

Energy Projects, Engineering Standards, Metering and Measurement accuracy, High Voltage Testing and the development and deployment Geographical Information Systems (GIS) throughout the enterprise. He was previously the Director of System Operations where he modernized grid management with the introduction of SMARTER GRID technologies improving Situational Awareness, Real-Time decision support and the response of the grid to maintain Safety, Security, Reliability and Economics as well as preparing the company for increased Flexible operations.

He is a registered Professional Engineer, Project Management Professional and a technical consultant to various officers within the company and works as the Director of System Restoration on the Central Emergency Operations Center (CEOC) for disaster management and



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grid restoration. He holds a Bachelor of Engineering in Electrical Power Systems (first class) from University of Technology, a Master of Science in Computer Based Management Information Systems (Hon.) from the University of the West Indies, an Executive Master of Science degree in the Management of Sporting Organizations (MEMOS) from the International Olympic Committee; professional certificates in Modern Energy Management Systems from Georgia Institute of Technology and SMART GRID Modeling and Control for island Utilities from University of Hawaii, Manoa.

Gillian Charles-Gollop, Executive Director, Corporate Investment Banking & Advisory, CIBC



FirstCaribbean. Mrs. Gillian Charles-Gollop ACIB, MBA is part of the senior leadership team in Corporate Investment Banking and Advisory at CIBC FirstCaribbean International Bank providing senior client coverage, credit structuring and advisory support to the Bank’s regional Corporate & Investment Banking team and clients. Gillian has over 28 years’ experience in regional corporate & investment banking services sector and has a proven track record in originating, structuring, loan syndications, project financing and successful execution in a variety of industries including, real estate, renewable energy, infrastructure projects and regulated telecom and electric utilities. Over the last 10 years, she has also led and executed both public and private merger transactions for clients in the Caribbean. Gillian is an Associate of the Institute of Canadian Bankers and holds an MBA (Finance) from the University of Leicester, UK.

Ricardo Hutchinson, Vice President – Investment, Portland Private Equity.



Ricardo has over fourteen years’ experience in the Caribbean financial sector. He is currently Vice President - Investment at Portland Private Equity. Prior to joining Portland Private Equity, he worked with some of the Caribbean’s leading financial institutions where he successfully closed several capital market transactions. He currently serves on the boards of Productive Business Solutions, Diverze Assets, Chukka Caribbean and Tropical Batteries. He holds a master’s degree in Economics from the University of The West Indies and is a CFA Charter holder.

Terry Dittrich, VP Government Affairs, Greenstar.



Terry currently serves as the Vice President of Government Affairs for Greenstar Products USA, a San Antonio, Texas manufacturer of LED and Smart City lighting/energy efficiency systems. Terry is responsible for strategic planning and business development of Greenstar’s Total Energy Solutions approach in emerging markets worldwide. He also oversees all project finance efforts for Greenstar initiatives (grid modernization, solar and other energy efficiency projects). Prior to joining Greenstar, Terry served as a Senior Advisor within the



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European Bank for Reconstruction and Development’s (EBRD) Small to Mid-Sized Enterprise Growth Fund, primarily in the energy and infrastructure sectors.

Before his time with EBRD, Terry served for 15 years as the Global Sales Director for The Spancrete Group a worldwide leader in construction and infrastructure equipment systems for the building industry. In addition to his role with Greenstar, Terry currently serves on the U.S. Department of Commerce Renewable Energy and Energy Efficiency (REEEAC) Advisory Committee as well as several other US energy export groups.

Terry is a graduate of Boston University, where he earned a B.A. in International Economics. Additionally, Mr. Dittrich holds an M.A. in International Economic Policy from The American University School of International Service in Washington, DC.

CLOSING REMARKS

Cletus Springer, Director, Department of Sustainable Development, OAS



Mr. Cletus Springer has been Director of the Department of Sustainable Development of the Organization of American States based in Washington D.C since 2008. He is a graduate of the University of the West Indies (Public Administration and Mass Communications); Oxford Brooks University (Urban Planning Studies); and Aberdeen University (Environmental Impact Assessment).

Over a 20-year period ending in 2001, he served as head of the Ministries of Tourism and Public Utilities and the Ministry of Planning, Development, Environment respectively, in his native Saint Lucia. He has been integrally involved in sustainable development initiatives and has written extensively on the subject, particularly in the context of Small Island Developing States. He has served as his country’s Alternate Governor of the World Bank and the IMF. Prior to joining the OAS, he ran a successful consulting practice that served a broad clientele of Governments and inter-governmental entities in the Caribbean, Asia and the Pacific regions.



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