ENERGY SERVICES FROM WASTE:
The Development of a Regional Integrated Organic Waste Management Sector
### Registration

**8:00am - 9:00am**  
Grenada Trade Centre

### SESSION 1: Official Ceremony

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Presenter/Exponent</th>
</tr>
</thead>
<tbody>
<tr>
<td>National Anthem</td>
<td>9:00 am</td>
<td>Mr. Kareem Alexis</td>
</tr>
<tr>
<td>Opening Prayers</td>
<td>9:05 am</td>
<td>Senator The Hon. Winston Garraway&lt;br&gt;Minister of State, Ministry of Youth, Sports &amp; Religious Affairs, and Minister with responsibility for the National Disaster Management Agency (NaDMA), Government of Grenada</td>
</tr>
<tr>
<td>Welcome</td>
<td>9:05 am</td>
<td>Hon. Oliver Joseph, Minister of Economic Development, Trade, Planning, Cooperatives &amp; International Business&lt;br&gt;Grenada</td>
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<tr>
<td></td>
<td>9:15 am</td>
<td>H.E. Dr. Vince Henderson, LP.D, Ambassador and Permanent Representative of the Commonwealth of Dominica to the United Nations and SIDS DOCK President</td>
</tr>
<tr>
<td>Remarks</td>
<td>9:15 am</td>
<td>Mr. Joe Bradley, Deputy Director, External Relations Division, World Intellectual Property Organisation (WIPO)</td>
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<td></td>
<td>9:25 am</td>
<td>Mr. Martin Lugmayr, Sustainable Energy Expert, Energy Branch · Climate Policy and Networks Unit, United Nations Industrial Development Organization (UNIDO)</td>
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<tr>
<td>Cultural Item</td>
<td>9:25 am</td>
<td>The Presentation Brother’s College (PBC) School Choir</td>
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<tr>
<td>Time</td>
<td>Activity</td>
<td>Speaker/Details</td>
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<tr>
<td>10:00 am</td>
<td>Remarks</td>
<td>Dr. Andreas Taeuber, Head, GIZ-REETA (Renewable Energy and Energy Efficiency Technical Assistance) Project, CARICOM Secretariat</td>
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<tr>
<td>10:00 am</td>
<td>Opening Address - Keynote Speaker</td>
<td>Dr. The Rt. Hon. Keith Mitchell, Prime Minister of Grenada</td>
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<tr>
<td>10:15 am</td>
<td>GROUP PHOTOGRAPH (Opportunity for Media Interviews with conference organizing partners)</td>
<td>Dr. Al Binger, Energy Science Advisor, Caribbean Community Climate Change Centre (CCCCC)/SIDS DOCK Coordinator</td>
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<tr>
<td>10:40 am</td>
<td>MORNING BREAK</td>
<td>The Annex - Grenada Trade Centre</td>
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<tr>
<td>10:40 am</td>
<td>MORNING BREAK</td>
<td>The Annex - Grenada Trade Centre</td>
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</tbody>
</table>
## SESSION 2: Technology Expo Opening & Panel Discussions

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
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<tbody>
<tr>
<td>Ministerial Panel:</td>
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<tr>
<td>“Scaling up Technology Deployment for Waste-to-Energy (WtE) within the Caribbean – Key Opportunities and Challenges”</td>
<td>11:00 am</td>
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<td>12:30 pm</td>
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<tr>
<td>Moderator:</td>
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<tr>
<td>H.E. Dr. Vince Henderson</td>
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<tr>
<td>Ambassador and Permanent Representative of the Commonwealth of Dominica to the United Nations and SIDS DOCK President</td>
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<tr>
<td>Panelist:</td>
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<tr>
<td>Hon. Ivor Stephenson, Minister of Health and Environment, Dominica</td>
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<td>Hon. Roland Bhola, Minister for Agriculture, Lands, Forestry, Fisheries &amp; Environment, Grenada</td>
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<tr>
<td>Hon. Gregory Bowen, Minister of Communications, Works, Physical Development, Public Utilities &amp; ICT, Grenada</td>
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<tr>
<td>Hon. Luke Browne, Minister of Health, Wellness and the Environment, St. Vincent and the Grenadines</td>
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<tr>
<td>Opening of the Technology Expo:</td>
<td>12:30 pm</td>
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<tr>
<td>Guided VIP and Media Tour of the Exhibits, with introduction to Exhibitors</td>
<td>1:00 pm</td>
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<tr>
<td>Dr. The Rt. Hon. Keith Mitchell, Prime Minister of Grenada</td>
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<tr>
<td>NETWORKING LUNCH</td>
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<tr>
<td>Flamboyant Hotel &amp; Villas</td>
<td>1:00 pm</td>
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<tr>
<td>(Registered participants will be bused to the hotel – a 5-minute ride)</td>
<td>2:30 pm</td>
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</tbody>
</table>
Regional Experts’ Panel:
Examining Opportunities for WtE Deployment within the Caribbean – The Practical and Realistic Options"

2:45 pm

Moderator:
Dr. Devon Gardner, Programme Manager, CARICOM Secretariat Energy Unit

Panelist
Mr. Ricardo Ward, Project Manager, Ministry of the Environment and Drainage, Barbados

Mr. Henrik Personn, Renewable Energy Expert, Caribbean Community Climate Change Centre (CCCCC/5Cs), Belize

Mr. Dieter Rothenberger, Head of German-Grenadian Pilot Programme, “Integrated Climate Change Adaptation Strategies” (ICCAS), Deutsche Gesellschaft fuer Internationale Zusammenarbeit (GIZ), Grenada

Ms. Julia Brown, Divisional Manager, Development, Scientific Research Council (SRC), Jamaica

Mr. Joseph Williams, Consultant, Renewable Energy Unit, Caribbean Development Bank (CDB), Barbados

Technology Panel:
“Appropriate Technological Solutions for WtE within the Caribbean – Applications and Experiences”

3:30 pm

Moderator:
Mr. Joe Bradley, Deputy Director, External Relations Division, World Intellectual Property Organisation (WIPO)

Panelist:
Mr. Christoph Spurk, Ökobit-Biogas, Germany

Mr. Ralf Sigrist, CEO, Bekon Energy Technologies, Germany

Mr. Ron Bailey, PRM Energy Systems, Inc., USA

Dr. Robert T. Do., M.S., M.D. President and CEO, Solena Group, USA
**AFTERNOON BREAK**
4:30 pm
5:00 pm

**The Annex – Grenada Trade Centre**

**PRESENTATION I:**
5:00 pm
5:30 pm

Dr. Anatole Krattiger,
*Director of the Global Challenges for Sustainable Technologies – Division at the World Intellectual Property Organization (WIPO)*

"WIPO Green: The Marketplace for Sustainable Technologies – Key Requirements for Successful Development, Transfer and Diffusion of Technologies"

**DISCUSSION**
5:30 pm
6:00 pm

Moderator:
Mr. Alfred Watkins, *Chairman, Global Solutions Summit, Consultant, World Intellectual Property Organization (WIPO)*

Panelists:
Ms. Carol Lue, *CaribShare Biogas, Jamaica*

Mr. Thomas Jaud, *Gas Engines Sales Director - Latin America, GE Power & Water, USA*

Mr. Henrik Personn, *Renewable Energy Expert, Caribbean Community Climate Change Centre (CCCCC/5Cs), Belize*

**SUMMARY & CLOSE**
6:00 pm
6:15 pm

Dr. Andreas Taeuber, *Head, GIZ-REETA (Renewable Energy and Energy Efficiency Technical Assistance) Project, CARICOM Secretariat*

Dr. Anatole Krattiger, *Director, WIPO*

**NETWORKING & RECEPTION**
7:00 pm
8:30 pm

Grenadian Rex Resort
**SESSION III: Regional Challenges & Opportunities**

**Registration** 8:00am – 9:00am Grenada Trade Centre

<table>
<thead>
<tr>
<th>Event</th>
<th>Time</th>
<th>Location</th>
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<tbody>
<tr>
<td>Opening of Conference:</td>
<td>9:00 am</td>
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<tr>
<td>Opening Remarks, Conference Chair</td>
<td>9:30 am</td>
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<tr>
<td><strong>H.E. Dr. Vince Henderson, LP.D, Ambassador</strong></td>
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<td>and Permanent Representative of the Commonwealth of Dominica to the United Nations and SIDS DOCK President, Conference Chair</td>
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<td><strong>Dr. Devon Gardner, Programme Manager, CARICOM Secretariat Energy Programme</strong></td>
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<td><strong>Dr. Al Binger, CCCCC/SIDS DOCK</strong></td>
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<tr>
<td><strong>Experts’ Roundtable I:</strong></td>
<td>9:30 am</td>
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<tr>
<td>“The Regional WtE Situation”</td>
<td>10:30 am</td>
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<tr>
<td><strong>Moderator:</strong></td>
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<tr>
<td>Dr. Andreas Taeuber, Head, GIZ-REETA, CARICOM Secretariat</td>
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<tr>
<td><strong>Panelists:</strong></td>
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<tr>
<td><strong>Mr. Manuel Fuentes, Consultant, United Nations Industrial Development Organization (UNIDO), Austria</strong></td>
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<tr>
<td><strong>Mr. Dieter Rothenberger, Head of German-Grenadian Pilot Programme, GIZ-Integrated Climate Change Adaptation Strategies (ICCAS) Programme, Grenada</strong></td>
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<tr>
<td><strong>Mr. Werner Wendt, Chief Executive Officer, Sustainable Environmental Technologies SET GmbH, Austria</strong></td>
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<tr>
<td><strong>Mr. Eric Roennols, Environmental Consultant and Senior Advisor, Swedish Waste Management Association, Sweden</strong></td>
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<tr>
<td><strong>MORNING BREAK</strong></td>
<td>10:30 am</td>
<td>The Annex – Grenada Trade Centre</td>
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<td>10:45 am</td>
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</table>
Presentation II:
"Caribbean Experience with Utility Scale WtE Contracting"

10:45 am

Moderator:
Dr. Devon Gardner, Programme Manager, CARICOM Energy Programme

11:30 am

Presenters:
Mr. Phillip Weech, National Energy Policy Committee, Bahamas Environment, Science & Technology Commission (BEST), Ministry of the Environment and Housing, The Commonwealth of the Bahamas

Mr. Emmanuel Dubois, Landfill Manager, National Solid Waste Management Authority, Barbados

Mrs. Karen Roden-Layne, General Manager, Grenada Solid Waste Management Authority, Grenada

Ms. Denise Forrest, Managing Director and Principal Consultant, Forrest & Associates, Jamaica

Mr. Phillip Weech, National Energy Policy Committee, Bahamas Environment, Science & Technology Commission (BEST), Ministry of the Environment and Housing, The Commonwealth of the Bahamas

PANEL DISCUSSION I:
"A number of Caribbean countries have sought actively to develop WtE projects: Why have none of the countries been able to “close” the project development cycle?"

11:30 am

Moderator:
Dr. Devon Gardner, CARICOM Secretariat Energy Programme

1:00 pm

Panelists:
Mr. Phillip Weech, National Energy Policy Committee, Bahamas Environment, Science & Technology Commission (BEST), Ministry of the Environment and Housing, The Commonwealth of the Bahamas

Mr. Emmanuel Dubois, Landfill Manager, National Solid Waste Management Authority, Antigua & Barbuda

Dr. Dirk Nuber, Viking Heat Engines Caribbean, Barbados

Mrs. Karen Roden-Layne, General Manager, Grenada Solid Waste Management Authority, Grenada

Ms. Denise Forrest, Managing Director and Principal Consultant, Forrest & Associates, Jamaica

Dr. John Telesford, Consultant, CCCCC, Grenada
The Working Groups will be led by facilitators and is intended to promote broad-based representation from various groups including, inter alia: public sector, private sector, civil society, educational institutions, financing institutions and development partners.

- Working Group 1: Liquid Effluents: Sewerage, Breweries & Distilleries
- Working Group 2: Solid Waste: Municipal & Non Municipal
- Working Group 3: Organic Residues: Large Farms & Food Processors
- Working Group 4: Organic Residues: Small Scale Operators

Facilitators:

Working Group 1: Mr. Dieter Rothenberger, Head of German-Grenadian Pilot Programme, GIZ-ICCAS Programme, Grenada

Working Group 2: Mr. Eric Roennols, Environmental Consultant and Senior Advisor, Swedish Waste Management Association, Sweden

Working Group 3: Ms. Julia Brown, Divisional Manager, Process Development, Scientific Research Council (SRC), Jamaica

Working Group 4: Mr. Christoph Spurk, Ökobit-Biogas, Germany

Moderator:

Dr. Spencer Thomas, Chairman, National Telecommunications Regulatory Commission (NTRC) Grenada

H.E. Dr. Vince Henderson, LP.D, Ambassador and Permanent Representative of the Commonwealth of Dominica to the United Nations and SIDS DOCK President, Conference Chair
SESSION IV: Approaches and Strategies

**Presentation III:**
9:00 am – 9:45 am
CCCCC/CCCS DOCK
Swedish Energy Agency (SEA)
Project - “Building Resilience to Climate Change in Islands through the Energy Sector: North-South Cooperation for Sustainable Energy Development in Island States”


Mr. Eric Roennols, Environmental Consultant and Senior Advisor, Swedish Waste Management Association, Sweden

Dr. Alvaro Umana, Consultant, Swedish Energy Agency (SEA)

**Presentation IV:**
9:45 am – 10:00 am
Grenada Project Pipeline: GIZ-Integrated Climate Change Adaptation Strategies (ICCAS) Programme

Mr. Dieter Rothenberger, Head of German-Grenadian Pilot Programme, GIZ-Integrated Climate Change Adaptation Strategies (ICCAS) Programme, Grenada

**Experts’ Roundtable II:**
10:00 am – 11:00 am
“The WtE applications considered most suitable to Caribbean countries: Linkages to local pollution and global climate issues”

Moderator:
Dr. Al Binger, CCCCC/CCCS DOCK

Panelists:
Mr. Chris Corbin, UNEP Caribbean


Dr. Alvaro Umana, Consultant, Swedish Energy Agency (SEA), Sweden

Dr. Tom Goreau, President, Global Coral Reef Alliance, USA

**Experts’ Roundtable II: (continued)**

Panelists (continued):
Mr. Vintura Silva, Team Leader, Regional Collaboration Centre, United Nations Climate Change Secretariat (UNFCCC), Grenada

MORNING BREAK 11:00 am
11:15 am

The Annex – Grenada Trade Centre

PRESENTATION V: 11:15 am
"Lessons learned from Success Cases:"
12:15 pm

Moderator:
Dr. Andreas Taeuber, Head, GIZ-REETA Project, CARICOM Secretariat

Presenters:
Mr. Dieter Rothenberger, Head of German-Grenadian Pilot Programme, GIZ-Integrated Climate Change Adaptation Strategies (ICCAS) Programme, Grenada

Mr. Itajah Simmons, Officer, Ministry of Health and Environment, Department of Environment, Antigua & Barbuda

Mr. Christoph Spurk, ÖKOBIT-BIOGAS, Germany

Ms. Julia Brown, Divisional Manager, Process Development, Scientific Research Council (SRC), Jamaica

Mr. Manuel Fuentes, Consultant, UNIDO, Caribbean

Mr. Werner Wendt, Chief Executive Officer, Sustainable Environmental Technologies, SET GmbH, Austria
PANEL DISCUSSION II:
"A formula for success: If there is a checklist for achieving a successful W2E programme in Caribbean countries, what would this look like?"

12:15 pm
Moderator:
H.E. Dr. Vince Henderson,
SIDS DOCK President, Conference Chair

1:15 pm
Panelists:
Mr. Dieter Rothenberger, Head of German-Grenadian Pilot Programme, GIZ-ICCAS Programme, Grenada

Mr. Manuel Fuentes, Consultant, UNIDO, Caribbean

Mr. Werner Wendt, Chief Executive Officer, Sustainable Environmental Technologies, SET GmbH, Austria (TBC)

Mr. Eric Roennols, Environmental Consultant and Senior Advisor, Swedish Waste Management Association, Sweden

LUNCH BREAK
1:15 pm
Flamboyant Hotel & Villas
(Registered participants will be bused to the hotel - a 5-minute ride)

2:15 pm
Presentation VI:
Draft Global Environment Facility Project Identification Form (GEF-PIF) – Caribbean Regional Waste-to-Energy (WtE) Project

2:15 pm
Mr. Martin Lugmayr, Sustainable Energy Expert, UNIDO

2:30 pm
WORKING SESSION II:
“Identification of the objectives, design and components of the Regional W2E GEF-Project”

- Working Group Discussions
- Presentations from the Working Groups

The Working Groups will be led by facilitators and is intended to promote broad based representation from various groups including, inter alia: public sector, private sector, civil society, educational institutions, financing institutions and development partners.

Working Group 1: Liquid Effluents: Sewerage, Breweries & Distilleries

Working Group 2: Solid Waste: Municipal & Non Municipal

Working Group 3: Organic Residues: Large Farms & Food Processors

Working Group 4: Organic Residues: Small Scale Operators

AFTERNOON BREAK

The Annex – Grenada Trade Centre

WORKING SESSION II:
“Identification of the objectives, design and components of the Regional W2E GEF-Project” (CONTINUED)

DISCUSSION OF THE WORKING GROUP PRESENTATIONS

SUMMARY & CLOSE

Facilitators:

Working Group 1:
Ms. Neranda Maurice-George, GEF Focal Point, St. Lucia

Working Group 2:
Ms. Jhana McLawrence, Dominica Solid Waste Management Corporation, Dominica

Working Group 3:
Mr. Fitzroy James, GEF Focal Point, Grenada

Working Group 4:
H.E. Mr. Brian Challenger, Ministry of Tourism, Economic Development, Investment and Energy, Antigua & Barbuda

Moderator:
Dr. Al Binger, CCCCC/SIDS DOCK

Dr. Al Binger, CCCCC/SIDS DOCK
DAY 4: SATURDAY 23 JANUARY 2016

Registration 8:00am – 9:00am Grenada Trade Centre

SESSION V: Closing the Gaps

Presentation VII:
Relationships between Climate, Oceans and Waste – The Future of Small Islands
9:00 am – 9:15 am
Dr. Tom Goreau, President, Global Coral Reef Alliance, USA

Presentation VIII:
The Caribbean Region Waste-to-Energy of Small Islands
9:15 am – 9:35 am
Dr. Al Binger, CCCCC/SIDS DOCK

Discussions on:
The Caribbean Region Waste-to-Energy (WtE) Indicative Project Pipeline
9:35 am – 10:45 am
Moderator: H.E. Dr. Vince Henderson, SIDS DOCK

MORNING BREAK
10:45 am – 11:00 am
The Annex – Grenada Trade Centre

WORKING SESSION III:
“Presentation of the Baseline Data Requirements and Identification of the Strategy to Close Data Gaps”
11:00 am – 12:15 pm

Presenters:
Mr. Manuel Fuentes, Consultant, United Nations Industrial Development Organization (UNIDO)

Facilitators:
Working Group 1:
Ms. Neranda Maurice-George, GEF Focal Point, St. Lucia

Working Group 2:
Ms. Jhana McLawrence, Dominica Solid Waste Management Corporation, Dominica

Working Group 3:
Mr. Fitzroy James, GEF Focal Point, Grenada

Working Group 4:
H.E. Mr. Brian Challenger, Ministry of Tourism, Economic Development, Investment and Energy, Antigua & Barbuda
<table>
<thead>
<tr>
<th>Time</th>
<th>Event Description</th>
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<tbody>
<tr>
<td>12:15 pm</td>
<td>DISCUSSION OF THE WORKING GROUP</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>Moderator: Mr. Martin Lugmayr, <em>Sustainable Energy Expert</em>, UNIDO</td>
</tr>
<tr>
<td>1:00 pm</td>
<td>LUNCH BREAK</td>
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<tr>
<td>2:00 pm</td>
<td>Flamboyant Hotel &amp; Villas (Registered participants will be bused to the hotel – a 5-minute ride)</td>
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<tr>
<td>2:00 pm</td>
<td>SUMMARY &amp; CLOSE</td>
</tr>
<tr>
<td>2:00 pm</td>
<td>H. E. Dr. Vince Henderson, <em>SIDS DOCK President</em></td>
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<tr>
<td>2:30 pm</td>
<td>Ms. Marie Karlberg, <em>Sweden</em></td>
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<tr>
<td>2:30 pm</td>
<td>Dr. Anatole Krattiger, <em>(WIPO)</em></td>
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<tr>
<td>2:30 pm</td>
<td>Dr. Al Binger, <em>CCCCC/SIDS DOCK</em></td>
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<tr>
<td>2:30 pm</td>
<td>Dr. Devon Gardner, <em>CARICOM Secretariat</em></td>
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<td><em>Energy Programme</em></td>
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<td>2:30 pm</td>
<td>Dr. Andreas Taeuber, <em>Head, GIZ-REETA Project</em></td>
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<td><em>CARICOM Secretariat</em></td>
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<tr>
<td>2:30 pm</td>
<td>TECHNOLOGY EXPO</td>
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<tr>
<td>2:30 pm</td>
<td>Participants visit Technology Expo, meet individually with exhibitors and discuss potential business</td>
</tr>
<tr>
<td>6:00 pm</td>
<td>opportunities, pursue matchmaking opportunities, and interact with Grenadian public</td>
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</tbody>
</table>
Solena's advanced plasma technology uses all biomass including woods, shrubs, grasses and other agricultural products as well as municipal and industrial waste. Biomass as a fuel source offers businesses, industries, utilities and municipalities around the world with an extraordinary opportunity to produce and use renewable energy economically and efficiently, without any CO2 emissions. Taking its bio-energy concept to an integrated solutions approach, Solena Group uses high temperature plasma gasification technology to convert inexpensive and plentiful resources, such as household and industrial waste, into a synthetic gas which will subsequently be converted into sustainable jet and/or diesel fuel using third party equipment. Solena recognizes the expansion and vast global potential of biorefineries using waste as feedstock as a substitute for incineration plants and/or landfilling.

Dr. Robert T. Do., M.S., M.D. President and CEO Dr. Do is the Founder, Chairman of the Board and CEO of Solena Fuels Corporation, a sustainable energy company developing proprietary Integrated Biomass-Gas to Liquid (“IBGTL”) facilities around the world. Dr. Do is the author and inventor of the company's proprietary technology. While running his own general physician practice in the early 1990s, Dr. Do researched the journey medical waste took, once leaving his office. He learned that the high-temperature gasification industry had to date been focused on destroying waste while relying on tipping fees for its income. Dr. Do sold his practice and set out to develop a high-temperature gasification system designed for efficient energy extraction/recovery while also destroying the waste. Solena was effectively born, patents were awarded and several industry trends have converged resulting in Solena Fuels Corporation having a market leading position in the drop-in, sustainable fuels markets. Dr. Do is responsible for the overall strategy and technology offering of the Company. Dr. Do has graduate degrees in Physics and Medicine from Georgetown University. Dr. Do has extensive experience as an entrepreneur, environmental scientist and in executive management positions Dr. Do has been advocating the uses of bioenergy for the reduction of greenhouse gases to combat climate changes and has been lecturing extensively in the US, Europe, and worldwide on the importance of alternative renewable energy. Dr. Do is a Co-Chair for the Transportation Initiative of the American Council on Renewable Energy, a member of the AMA, a Diplomat of the American College of Forensic Examiner, a member of the National Sciences Council for Science and the Environment and a member of the Nationals Who's Who of Registered Executives and Professionals. He is also founder of the Green Cup, a non-profit charity polo event held annually in DC for the benefit of the environment.
CaribShare Biogas is a social enterprise focused on producing clean energy from organic waste in a manner that truly reduces poverty and promotes rural development in the Caribbean. CaribShare is also one of the 8 proud winners of the 2012 IDEAS Energy Innovation Contest, sponsored by the Inter-American Development Bank.

By developing and operating centralized biodigesters, CaribShare collects and converts tremendous quantities of food waste from hotels and animal manure from small livestock farms to produce biogas and organic fertilizer.

Their “Waste to Energy” program sells biogas to businesses so they can self-generate energy at a significantly lower cost than purchasing from the grid.

Their “Waste to Fertilizer” program provides fertilizer at a highly discounted rate to help farmers lower their production cost and to promote organic farming.

Given the prevalence of the hotel and farming sectors in the Caribbean, their business model has strong growth potential for the region with tangible social returns. Their “Waste to Cash” program shares up to 50% of their surplus revenues with participating farmers as meaningful income to help support their livelihoods and the vitality of their communities.

In collaboration with Ch4 Biogas in Ottawa, Canada, their pilot plant is currently being developed in Montego Bay, Jamaica with operations set to start in March 2016.

Carol Lue, Founder and Executive Director
Carol holds a MBA degree from Brandeis International Business School and a MS degree in Environmental Planning from the University of Toronto. After working in business and sustainability for over 13 years in North America, Carol returned home to Jamaica to fulfill her passion of developing a social enterprise that would both build climate resilience and strengthen rural livelihoods. Having contributed to developing Jamaica’s carbon trading policy, she is also looking to integrate carbon trading into the development of renewable energy projects and other climate change solutions in the Caribbean.
50% of all global waste comes from organic origins and has led to significant harmful emissions. The innovative BEKON dry fermentation is a revolutionary technology at the interface of waste management and energy generation ("waste to energy"). By generating methane, electricity, thermal energy and organic fertilizer from organic waste the carbon emissions from uncontrolled landfills can be largely avoided. The result is a significant reduction in otherwise required landfill space or incineration capacity which provides clear economic and ecological advantages. The robust and simple technology even allows for the treatment of the organic fraction from unsegregated household waste. It offers a high gas yield and gas quality combined with simple operation at low operating cost respecting the highest safety and emissions standards. Currently 21 plants with more than one million operating hours are in operation for several years. The company is headquartered outside of Munich where the company’s first plant ever processes 35% of the organic waste of the city of Munich and is successfully operated by the municipal Waste Management Department for 10 years.

Ralf Sigrist (CEO), BEKON Holding AG, Munich-Unterföhring, Germany

Ralf Sigrist was appointed CEO of BEKON Holding AG in August 2015 to grow and expand the company’s footprint beyond its core markets Germany, Switzerland and Italy. Prior to this he advised several clients in the renewable sector in North America and Europe. From 2008 through 2014 he was the CEO Americas of Nordex, a wind turbine manufacturer, and grew this company within 3 years from scratch to $ 274 mn in revenues within the US, Uruguay and Chile including project development activities and the set-up of a state-of-the-art manufacturing plant. Within 6 years Nordex installed almost 1 GW of wind turbines in these markets. From 2001 through 2008 Ralf was the General Counsel of Nordex SE at its headquarters in Hamburg/Germany, where he headed the Group Legal and HR Departments during the internationalization and a major growth of the company to € 1.2 bn in revenues. Between 1999 and 2001 he was Senior Legal In-House Counsel at Babcock Borsig AG, a German industry conglomerate with € 5 bn in revenues, involved in several large M&A transactions in the conventional power and infrastructure technology sector. He holds law degrees of the Universities of Munich/Germany and Aix-Marseille/France, is married and has two children.

GE Distributed Power

GE Power’s Distributed Power business is a leading provider of engines, power equipment and services focused on generating power at or near the point of use. Distributed Power offers a diverse product portfolio that includes highly efficient, fuel-flexible, industrial gas engines generating 100 kW to 10 MW of power for numerous industries globally. In addition, the business provides life cycle support for more than 35,000 gas engines worldwide to help you meet your business challenges and success metrics - anywhere and anytime. Backed by our authorized service providers in more than 170 countries, GE’s global service network connects with you locally for rapid response to your service needs. GE’s Distributed Power business is headquartered in Jenbach, Austria.

THOMAS JAUD, Sales Director Central America, Caribbean, Venezuela & Colombia

(continued on the next page)
PRME has gasified more biomass than all other gasification technologies combined. Our systems are successfully operating in high demand industrial applications on five continents converting over 8.5 million tons of biomass and other waste fuels to clean energy. We have systems that have been operating around the clock for over 32 years. The PRME Technology converts solid fuels to combustible gases that are used like natural gas to fire boilers, dryers, kilns, furnaces, thermal oxidizers and IC engines. PRME Gasification Systems are available in a wide range of sizes to gasify from 30 to 2,000 tons per day.

Ron Bailey, Jr., MBA, CPA
As with most entrepreneurs, Ron wears many hats and spends most of his time traveling and with customers, project developers, contractors and partners. Ron’s primary responsibilities are business development, finance and operations; but can often be found at the controls of a new plant where he enjoys the excitement of startups.
Ron’s background includes manufacturing, construction, commodities trading/warehousing, finance/accounting and combat engineering. Fortunately, all of these experiences have been relevant in his 27 years in the renewable energy industry, particularly the combat.
As a major manufacturer and planner of biogas plants with over 175 national and international projects, ÖKOBIT is one of the most sought-after full-service suppliers within the biogas industry. We develop and build technically intelligent, substrate-flexible biogas and biomethane plants which perfectly correspond to the specific local conditions of our clients.

ÖKOBIT is an owner-operated company with a solid capital base and an exceptionally wide range of services and expertise. Our biogas expert team of experienced engineers, business experts, as well as energy and environmental engineers works with full commitment on the implementation of environmentally compatible biogas concepts operating on the highest level of economic efficiency.

ÖKOBIT relies on established and exceptionally flexible technology concepts and ensures their effective and safe implementation. As a general contractor, in addition to expert advice and profitability calculations, we take on all tasks from planning and approval to turnkey plant construction.

Montserrat Lluch Cuevas is an International Project Manager at ÖKOBIT GmbH.

Viking Heat Engines Caribbean is a Barbados based subsidiary of Viking Heat Engines in Norway who developed the CraftEngine, a unique Organic Rankine Cycle Engine that produces power from low temperature energy sources. This engine successfully unlocks the potential of small scale renewable energy sources such as small scale waste to energy, shallow geothermal, waste heat from diesel engines and concentrated PV. The main objective of Viking Heat Engines Caribbean is to implement projects based on the CraftEngine technology and sell power at lower then market price.

As CEO of Viking Heat Engines Caribbean Dr Dirk Nuber provides the relevant set of skills; he has 10 years of energy business experience in the Caribbean and 10 years of engineering experience in Germany. Dr Nuber also has a PhD in Chemical Engineering, holds several patents in direct reduction technologies, and has an Executive MBA focused on Entrepreneurship.

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Your Organic Waste Pays You More

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