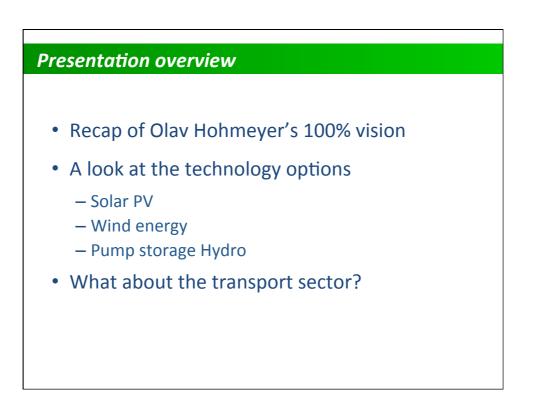


Planning for renewable energy: A 100% renewable energy vision for Barbados

Tom Rogers

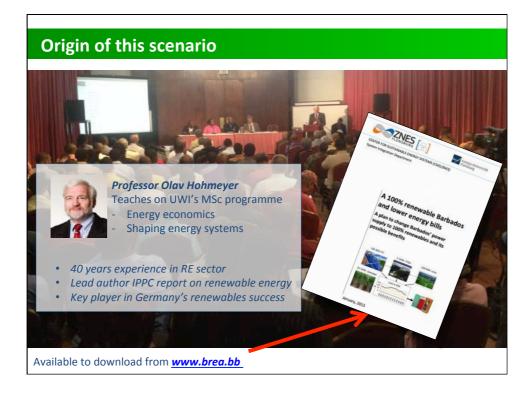
Faculty of Science & Technology The University of the West Indies Cave Hill Campus

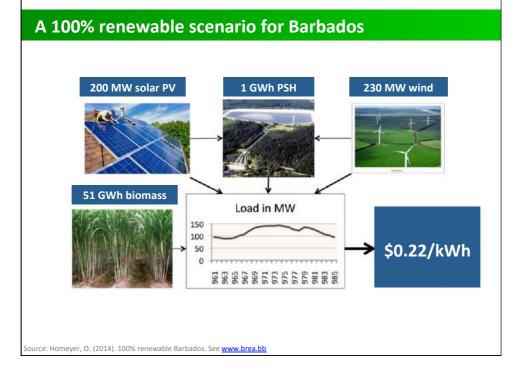
A presentation for the: BARBADOS TOWN 23rd September 2016 PLANNING SOCIETY



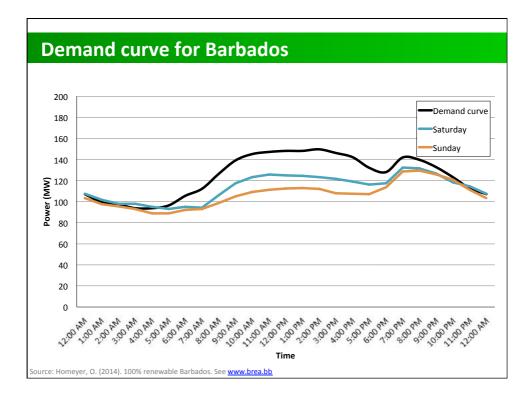
A 100% renewable Barbados AND lower energy bills

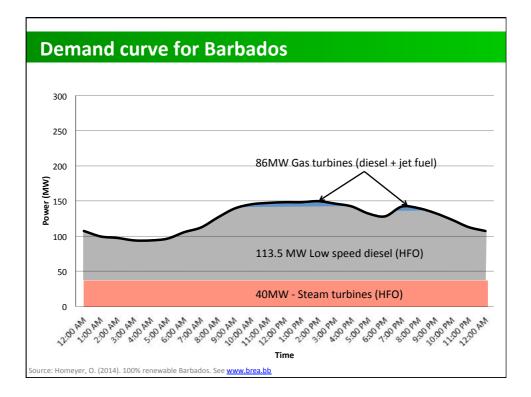
Progress to date...

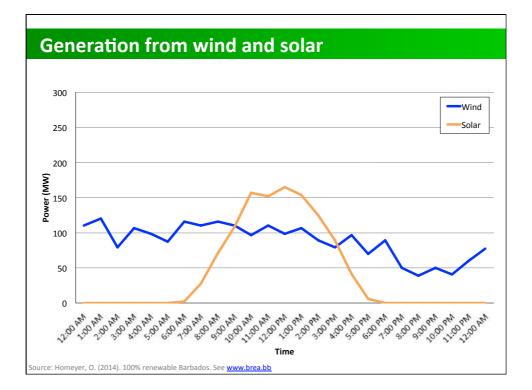


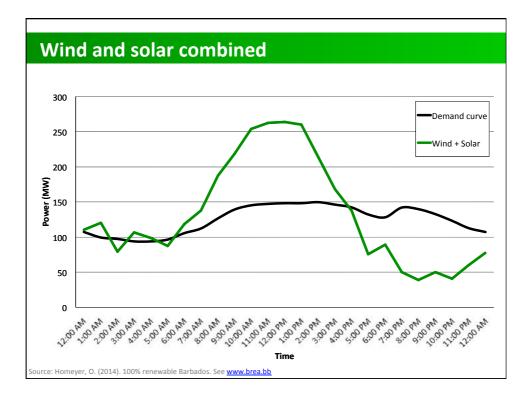


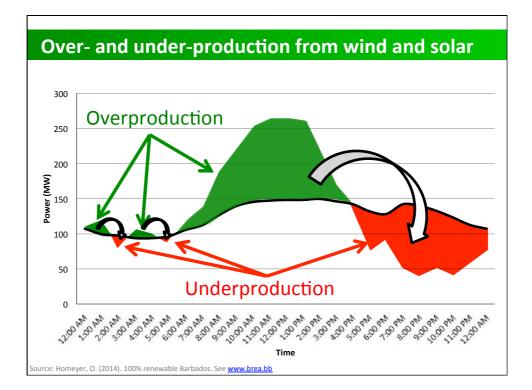


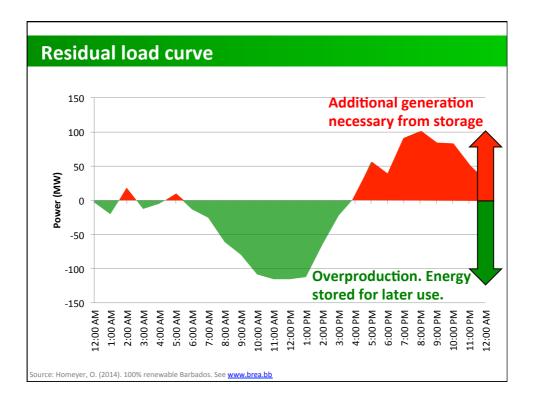


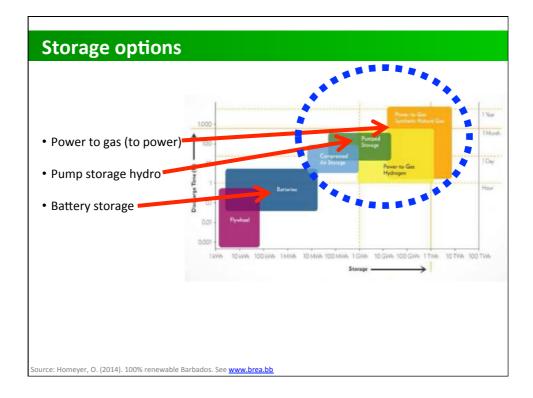


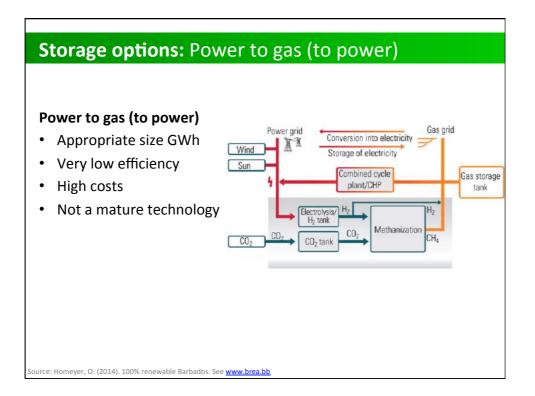




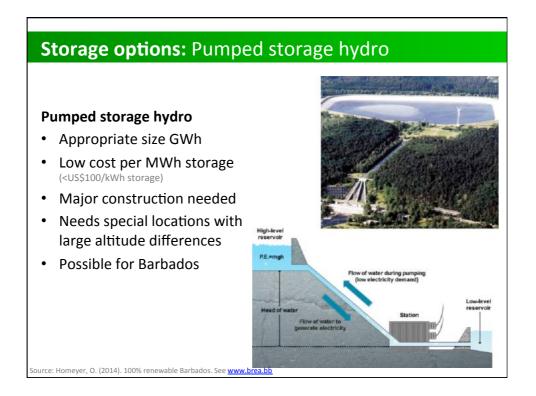


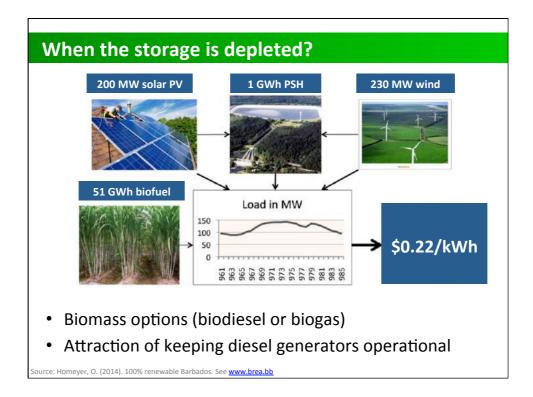


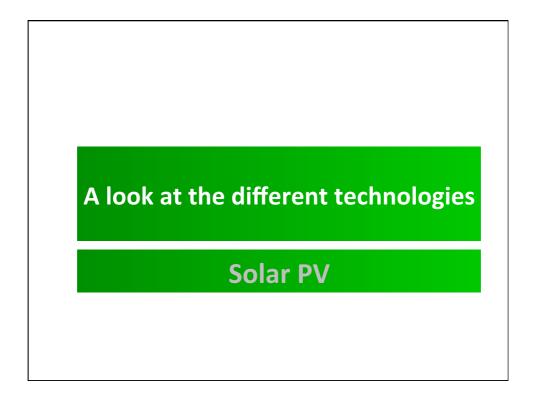


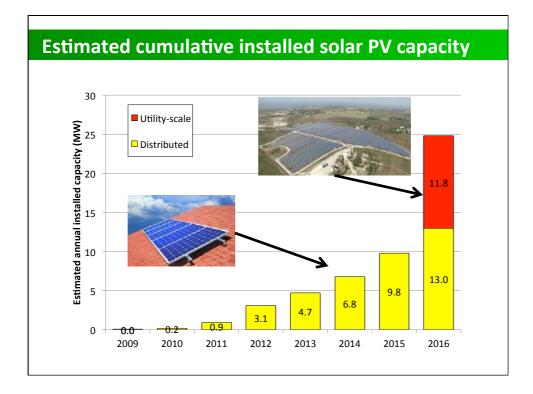


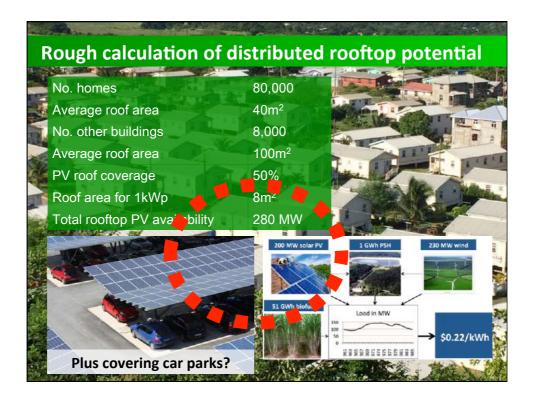


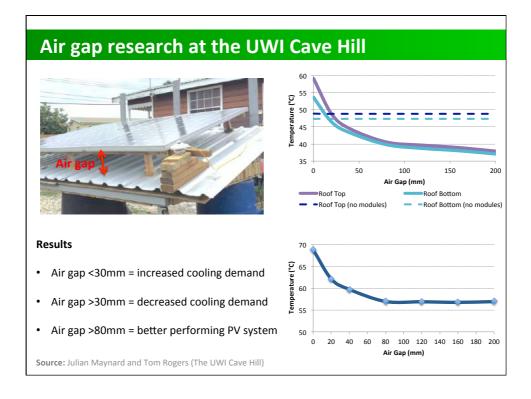


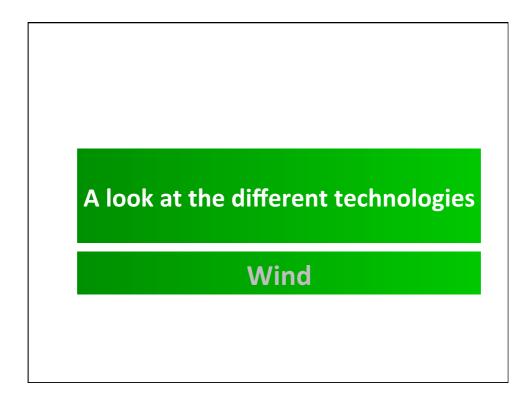


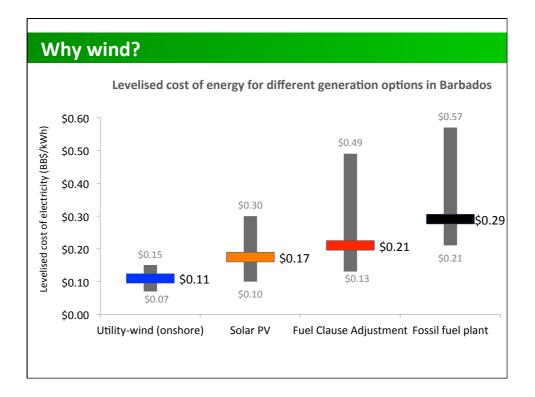




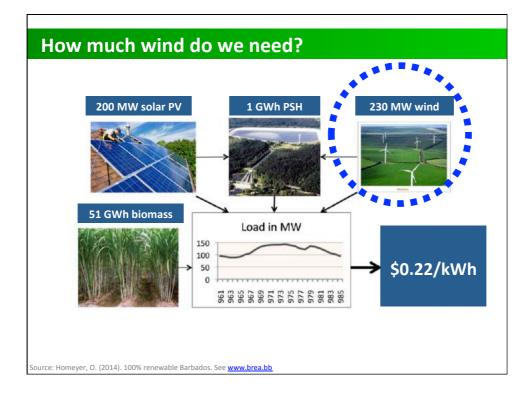




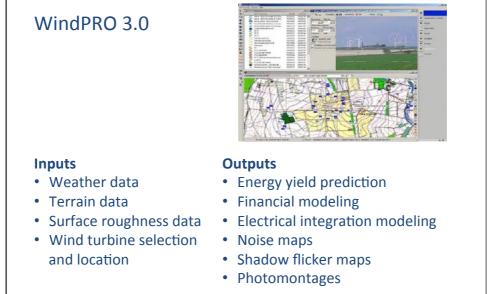




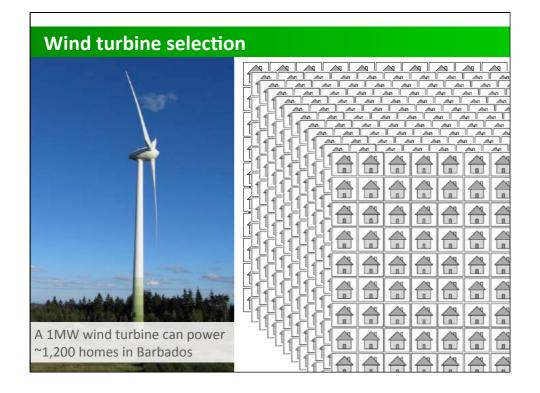


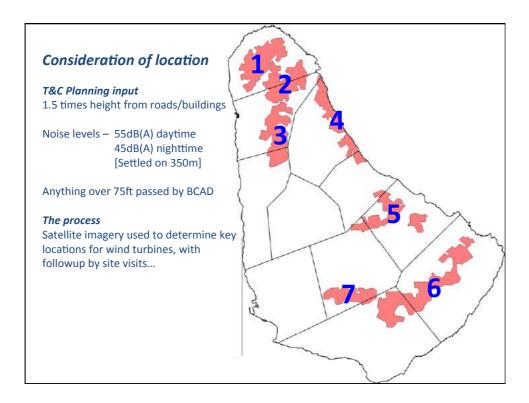


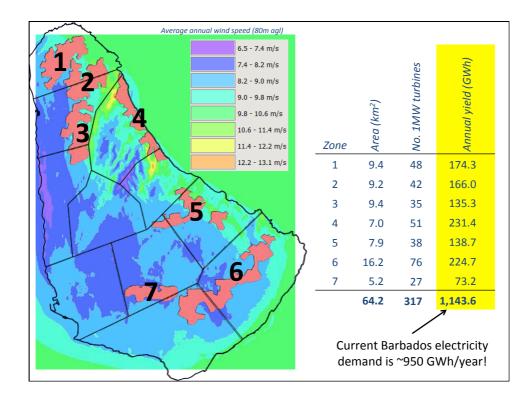
A desktop study of wind potential for Barbados

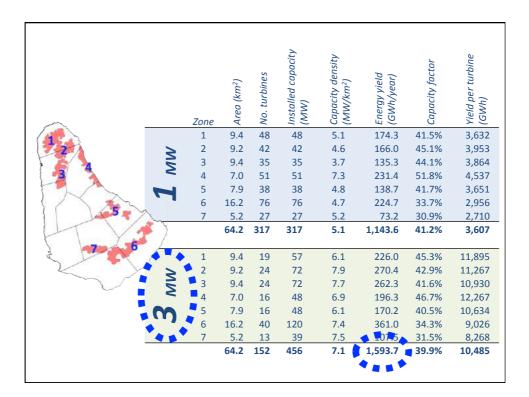


Link: http://www.emd.dk/windpro/



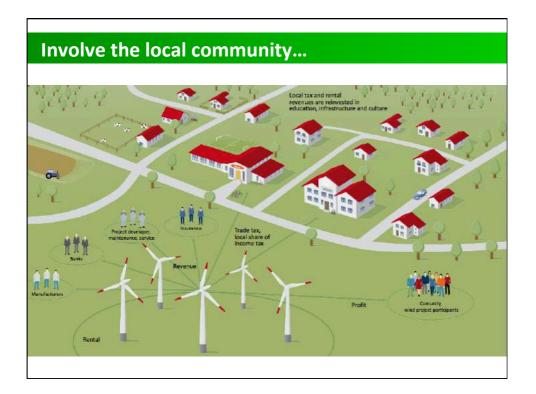






Next steps for turning technical potential into reality

- 1. More detailed wind resource assessment
- 2. Wind power electrical integration study
- 3. Incorporation of wind into the next PDP
- 4. Radar system at GAIA
- 5. Public involvement in the ownership and benefits of wind



Community wind

7 good reasons for local ownership

- 1. Results in more installed wind capacity
- 2. Creates local dialogue and acceptance
- 3. Helps raise public awareness about wind
- 4. Solves problems and conflicts
- 5. Local turbines are democratic
- 6. Local production makes sustainable development understandable
- 7. Gives people opportunity to act for sustainable development

Make them a tourist attraction! Image: Additional transmission of the section of the sectin of the section of the section of the section

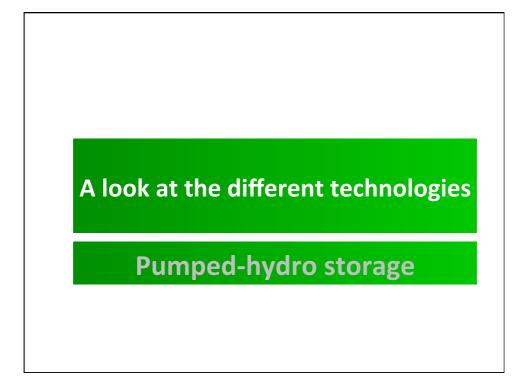


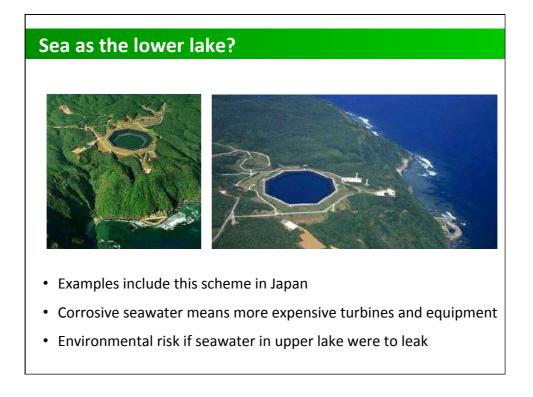


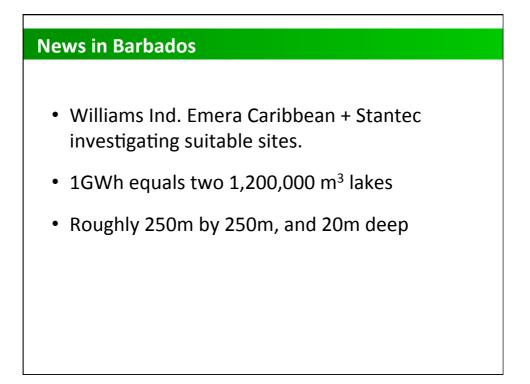


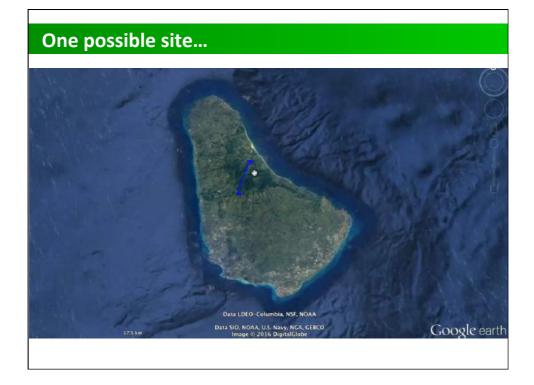


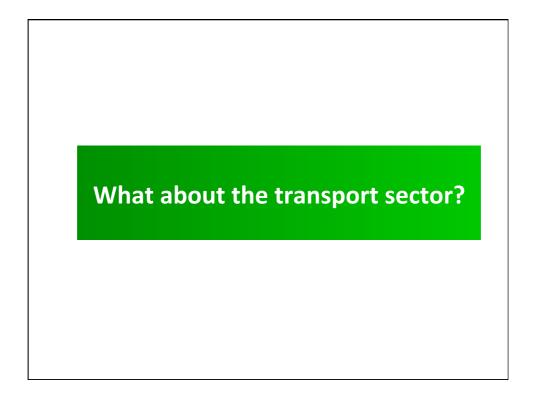


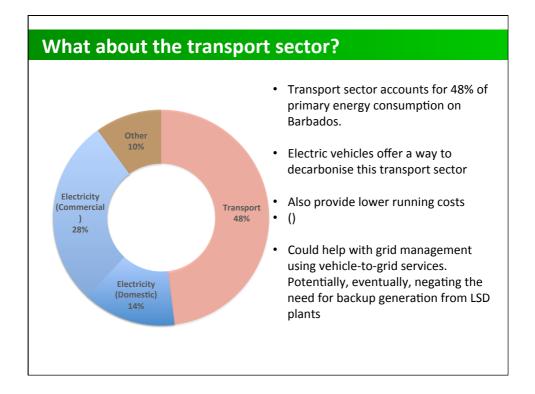


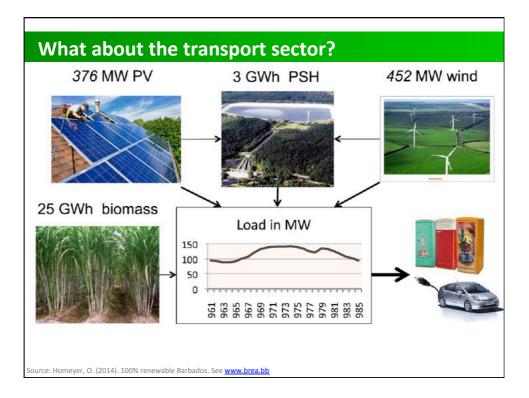














Conclusions

- Shift to renewable will increase Barbados's energy security
- · Any investment should come from domestic investors
- Onshore wind the cheapest source for foreseeable future
- Barbados has a good onshore wind power potential
- · Citizen/community wind ownership should be explored



he Hon. Didier Dodgely nister of Renewable Energy, wernment of the Seychelles	Dr. Mark Glick Hawaii State Energy Office, Government of Hawaii	Prof. Henrick Lund Professor, Development Planning, Aalbourg University, Denmark
Dr. Daniel Kammen Professsor of Energy, University of California, Berkeley	Ms. Loretta Duffy-Mayers Regional Programme Manager Caribbean Hotel Energy Efficiency and Renewable Energy Action Advanced Programme, Caribbean Hotel and Tourism Association	Prof. Olav Hohmeyer Professor Energy, University of Flensburg Germany

