



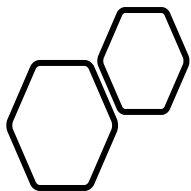
CLIMATE CHANGE AND ENVIRONMENTAL STATISTICS INFORMING NATIONAL POLICIES AND PLAN

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Antigua and Barbuda



Presentation Outline

1. Brief Overview of Department of Environment
2. Environmental Challenges
3. National Environmental Policies
4. Environmental Data and Information Databases
5. Regional/International Commitments
6. Data Gaps



Antigua and Barbuda Department of Environment (DOE) –
*established under the Environmental Protection and Management Act,
2019.*

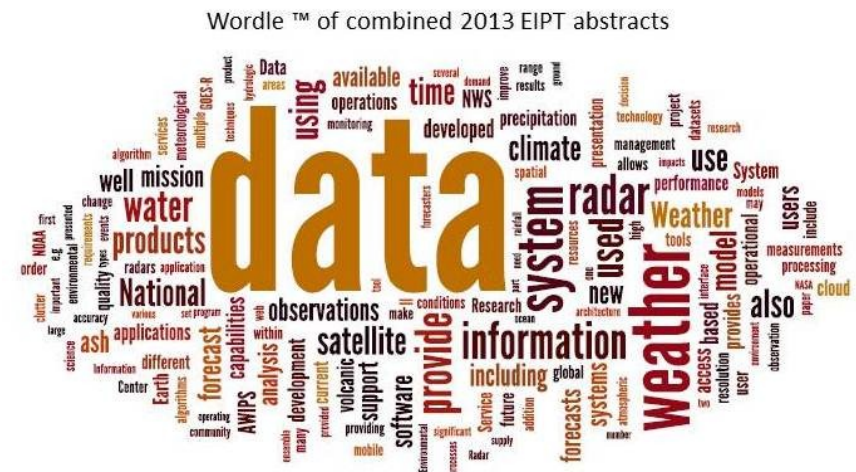
Functions include *inter alia*:-

- Coordinate the development and implementation of government's sustainable development, climate change, environment and natural resources management policies and activities;
- Coordinate and direct the implementation of multi-lateral environmental agreements;
- Establish and administer a sustainable mechanism for environmental management;
- ***Gather, analyse, publish and disseminate environmental data and information.***



The **Monitoring, Evaluation and Data Management Unit (DMU)** is responsible for the monitoring and evaluation of the implementation of environmental projects, coordinating field data collection, managing environmental databases and coordinating environmental data-driven projects.

Environmental Information covers a broad range of topics, such as: the environment itself, including air, water, earth, and the habitats of animals and plants; other things that affect the environment, such as emissions, radiation, noise and other forms of pollution; and policies, plans and laws on the environment.



Work closely with the National Statistics Division.

Environmental Challenges

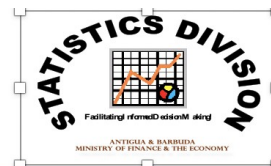
- Antigua and Barbuda is extremely vulnerable to projected climate change impacts resulting in:
 - Higher-intensity hurricanes
 - Frequent droughts
 - Higher temperatures
 - Sea level rise
- The country is currently heavily reliant on imported fossil fuels for energy and no indigenous fossil fuel resources (100% of fuel imported)
- A large portion of original forest and ecosystems have been lost and this invariably affects the biodiversity that is present
- Indiscriminate disposal of waste and wastewater has had an impact on the ecosystems and hydrological features

National Environmental Policies, Plans and Reporting

- Medium Term Development Strategy
- National Environmental Policy
- National Determined Contributions (NDC) Targets
- Sustainable Development Goals
- Multilateral Environmental Agreement (MEAs)
 - UNFCCC National Communications and BTRs
 - UNCBD National Reports
 - UNCCD National Reports
- State of the Environment Report
- National Adaptation Plan
- Sustainable Island Resource Management Zoning Plan and Local Area Plans
- Protected Areas Systems Plan (in development)
- Protected Areas Management Plans
- GHG Reduction Report
- Renewable Energy Roadmap



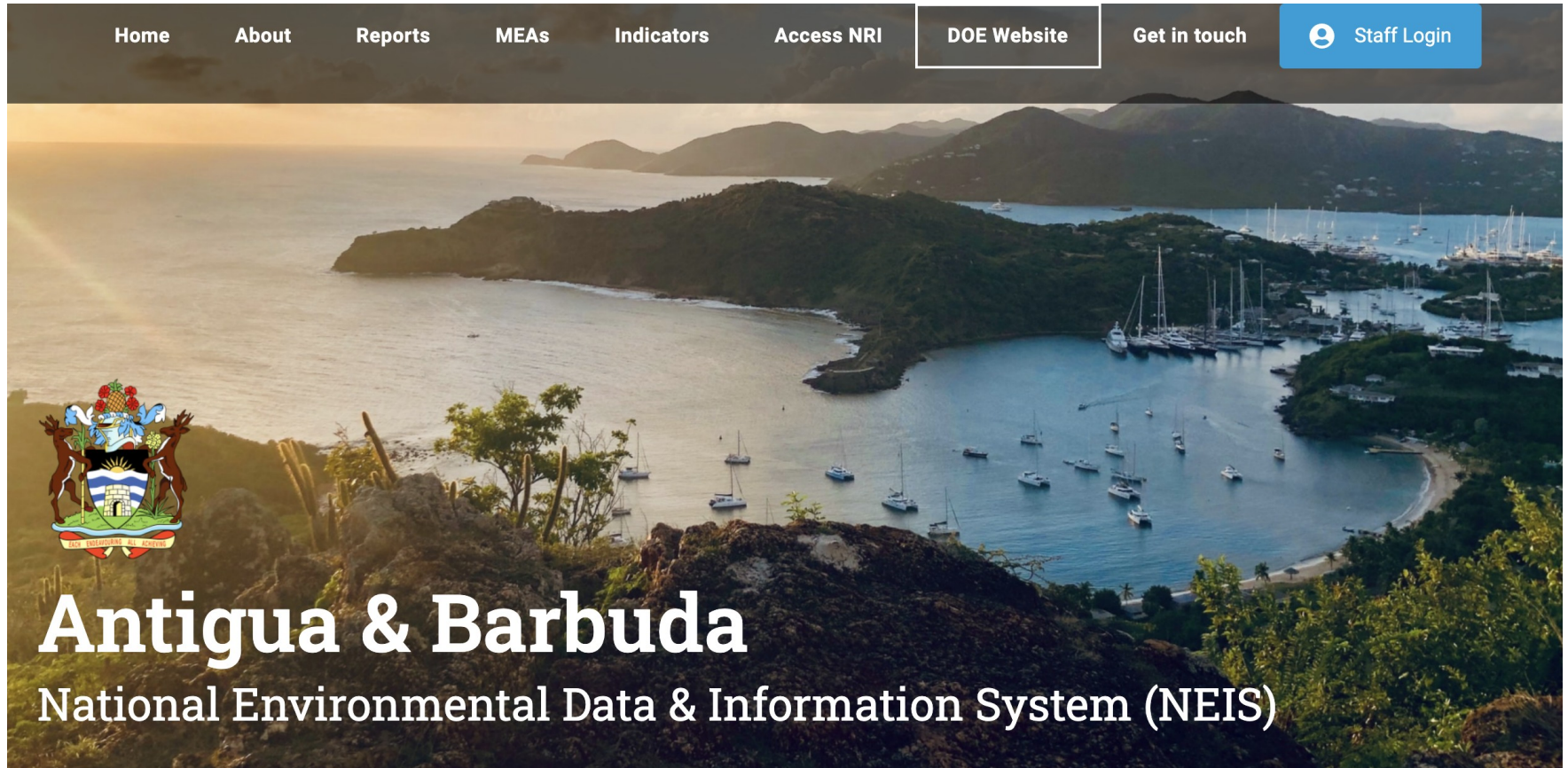
Environmental Data & Information Databases




Antigua & Barbuda National Environment Statistics Database

Sector	Indicator	Name of Individual Sheet	Baseline
Tourism	Long-stay by source market	Longstay by source market	2000-2011
Tourism	Long-stay by purpose of visit	Longstay by purpose of visit	1995; 1997 - 1999; 2004 - 2009
Tourism	Cruise by source market	Vistors Sea Arrival	n/a
Agriculture (1)	Average mean temperature	Mean Daily Temp	1971 - 2010
Agriculture (1)	Average high temperature	Mean Daily Max Temp	1995 - 2010
Agriculture (1)	Average low temperature	Mean Daily Min Temp	1995 - 2010
Agriculture (1)	Farmers information	Farmers information	1984
Coastal and Marine	Average length of stay	Average length of stay	2008 - 2009
Coastal and Marine	Number of cruise ship calls	No. of Cruiseships	2000 - 2010
Coastal and Marine	Percentage of visitors using all coastal and marine resources for recreational purposes	% Visitors use Coastal Resource	2004 - 2010
Energy	Importation of Fuel (total and by type)	Fuel Importation (2)	2009 - 2011
Energy	Price of electricity to the consumer	Price of Electricity	2011; 2000 - 2011
Energy	Index of electricity prices to the consumer and producer	n/a	same as previous indicator
General	Average Wind Speed	Average Wind Speed	1971 - 2010
General	Sea Level Rise	n/a	n/a
General	Humidity	Humidity	Jan 1970 - Jun 1977; Jan 1978 - Dec 1978; Jul 1991 - Dec 2010
Water	Precipitation*	Rainfall (Jolly Hill)	1980 -2010
Water	Recharge rates for aquifers	n/a	2012
Water	Run-off and pollution impacts on coastal areas	n/a	2012
Health	Access to potable water by region within the country*	Access to potable water	2001 Census Report; 2007 Antigua and Barbuda Country Poverty Assessment
Health	Access to potable water by region within the country*	Water Quality	n/a
Health	Access to sanitation	Access to sanitation	2001 Census Report; 2007 Antigua and Barbuda Country Poverty Assessment

Environmental Data & Information Systems (EIS)



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Antigua & Barbuda

National Environmental Data & Information System (NEIS)

<https://neis.environment.gov.ag/>

Regional and International Commitments

- National reporting to the Rio Conventions
 - UNFCCC – Nationally Determined Contributions (NDC) Targets
 - UNCBD – Aichi Biodiversity Targets
 - UNCCD – Land Degradation Neutrality (LDN) Targets
- Sustainable Development Goals
- Sendai Framework
- Escazú Agreement



Data Gaps

- Air Quality
- Waste water discharge
- Environmental Health
- Certain agricultural datasets
- Certain hydrology related datasets





Thank you!