



Climate Smart Agriculture (CSA) in Grenada

A brief from the Integrated Climate Change Adaptation Strategies (ICCAS) Programme



Challenge

Grenada is negatively impacted by changing rainfall patterns, higher temperatures, higher evapotranspiration as well as longer and more severe dry spells leading to concerns for water availability for agriculture. The sister islands of Carriacou and Petite Martinique have few surface water resources which makes them severely vulnerable. Furthermore, widespread damage to agricultural lands is foreseen due to saltwater intrusion. This is exacerbated by increased vulnerability to hurricanes.

Objective

The Climate Smart Agriculture (CSA) pilot project aims to increase the use of CSA techniques to contribute to improved management of water and coastal resources to build the resilience of the agricultural sector of Grenada.

Partners

This project is jointly implemented by the Ministry of Education, Human Resource Development and the Environment (MEHRE), People in Action (PIA) and the German Agency for International Cooperation (GIZ). It commenced in November 2014 and runs through to December 2018.

Approach

The project has a two-fold approach:

- 1) The **Capacity Development and Dissemination Programme (CSA-CapDiP)** is designed to train agricultural technical and extension officers in the Government of Grenada and the local statutory agri-associations on using GIZ's Modules on Sustainable Agriculture and the Response-Inducing Sustainable Evaluation (RISE) Tool. They are then responsible for transferring the knowledge gained to farmers and other stakeholders.
- 2) The **CSA model farm known as the Grenada Ecological Resilience Research Institute (GERRI)** implements the practices in the field. It is a collaborative effort between PIA, the MEHRE, GIZ and the wider community seeking to create a model farm that engages the community as an experiential learning centre that demonstrates CSA practices. The model farm is based on an ecosystem design methodology to help farmers adopt strategies and practices that foster climate resilience.

Impacts - What has been achieved so far?

Five of the twenty-five technical and extension officers who were trained in the first phase training in collaboration with the Inter-American Institute for Co-operation on

- Agriculture (IICA) have trained twenty more technical and extension officers.
- The Extension Division's monitoring sheet



Agricultural officers in Carriacou highlighting good CSA practices to the farmers to ensure production during the dry season

was revised to include the monitoring of CSA practices implemented on farm and recommended during the standard advisory service given to farmers. The sheet is being piloted to assess its effectiveness.

- A sensitization workshop was held in collaboration with the Ministry of Carriacou and Petite Martinique Affairs and Local Government, during which three of the trained officers sensitized farmers in Carriacou on Water and Soil Conservation.
- There has been farmer-to-farmer knowledge exchange on composting from the composting demonstration plot.
- Farmer-to-farmer exchange on the GERRI farm on re-use of waste in anaerobic digester to produce energy for cooking (biogas) and bio-fertilizer (digestate).

- The Grenada Marine has replicated CSA practices (composting, container companion planting) from the model farms.
- GERRI farm hosted international volunteers who learnt by doing best practices as part of its experiential learning services.

Next steps

- Support the dissemination of the RISE Tool in the Ministry of Agriculture.
- Support more on-the-job training for agriculture officers to farmers on CSA practices in the advisory service.
- Develop from the Carriacou training a farmer CSA manual on 'Soil and Water Conservation'.
- Implement more CSA practices on the GERRI farm such as ecosystem filter for wastewater management, expand the grey-water treatment, and construct paddocks for grazing livestock.



Farm worker is seen pouring animal slurry into the system during a 'Farmer-to-Farmer Exchange' session on using the biogas digester at the GERRI farm

As of July 2018

Government of Grenada

Merina Jessamy, Permanent Secretary
Ministry of Climate Resilience, the
Environment, Forestry, Fisheries,
Disaster Management and Information
Tel: +1-473-440-2078
Email: mejessamy@gmail.com

Ministry of Agriculture and Lands

Elvis Morain, Permanent Secretary
Tel: +1-473-440-2708

GIZ

Dieter Rothenberger, Head of
GIZ/ICCAS
GIZ Office, Ministry of Climate
Resilience, the Environment, Forestry,
Fisheries, Disaster Management and
Information
Tel: + 1-473-534-8000
Email: dieter.rothenberger@giz.de



To get all the latest news like "ICCAS Project" on 

The CSA project is part of the Grenadian-German Pilot Programme "Integrated Climate Change Adaptation Strategies" (ICCAS). ICCAS is funded by the German Federal Ministry for the Environment, Nature Conservation and Nuclear Safety (BMU) under its International Climate Initiative (IKI) and implemented jointly by the Government of Grenada, GIZ and the UNDP.