

Energy Efficiency and Climate Change

Energy efficiency can be defined as utilizing less energy to attain the same level of service, for example, using an Light Emitting Diode (LED) lamp instead of incandescent bulb. The world is speedily moving into the realm of energy efficiency, cars are now built to use less fuel, home owners are encouraged to build houses with greater light penetration, large engines require lower sulphur content to perform optimally.



PROJECT PARTNERS:

GOVERNMENT OF GUYANA
GOVERNMENT OF ITALY
OFFICE OF CLIMATE CHANGE
CARIBBEAN COMMUNITY CLIMATE CHANGE CENTRE
BARTICA MUNICIPALITY & THE RESIDENCE OF BARTICA



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TRANSITIONING TO NATIONAL ENERGY SECURITY (TNES):

Bartica as A Model Green Town

www.bartica.gov.gy

“ Climate change has happened because of human behaviour, therefore it’s only natural it should be us, human beings, to address this issue. It may not be too late if we take decisive actions today. ”

**** Ban Ki-moon ****

Secretary-General, United Nations (2007-2016)

The Government of Guyana plan is to implement Green initiatives throughout the country. One of the initiatives is to encourage the use of alternative sources of energy such as solar, hydro and wind. Bartica is chosen as the model town and the Office of Climate Change (OCC) in the Ministry of the Presidency (MoP) has received grant funding from the Government of Italy under the Italy Caribbean Community (CARICOM) Partnership Program to support implementation of a Project entitled Transitioning to National Energy Security: Bartica as a Model Green Town. The project is being implemented by the OCC in partnership with the Caribbean Community Climate Change Centre (CCCCC).

Under this project several studies will be conducted in Bartica to understand how energy is consumed in the town. The information gathered from the studies will be used for:

- (1) Decision making and;
- (2) Development of other plans and programs



The TNES project is intended to reach every sector whether it is a large corporation, a small business, residents, organizations or public entities. To this end, it will gather information on the following:

- Public buildings Energy Audit
- Assessment and audit of street lighting
- Transport Sector Energy Audit
- Household Baseline Survey

The data generated from all surveys will be placed into an Energy Database Management System that will be accessible to the municipality of Bartica and other stakeholders in real time.



Public Building Energy Audit

This is a collection of information regarding the consumption and expenditure of energy relating to buildings owned by the state and local authorities. The objective for conducting such a survey is to determine whether the energy consumption can be reduced without affecting the efficiency of the performance of the building.

Assessment and Audit of Street Lighting

An audit street lighting is done within a municipality to determine the energy efficiency potential of the lights. Once the potential is identified measures are implemented to improve the optimization of the lights.

Transportation Sector Energy Audit

Transport energy audit deals with evaluating energy usage during the movements (example transporting by boat, minibus, car etc) of people and goods to:

- Reduce energy consumption
- Reduce carbon footprint
- Bring related environmental benefits such as a reduction in air pollution

