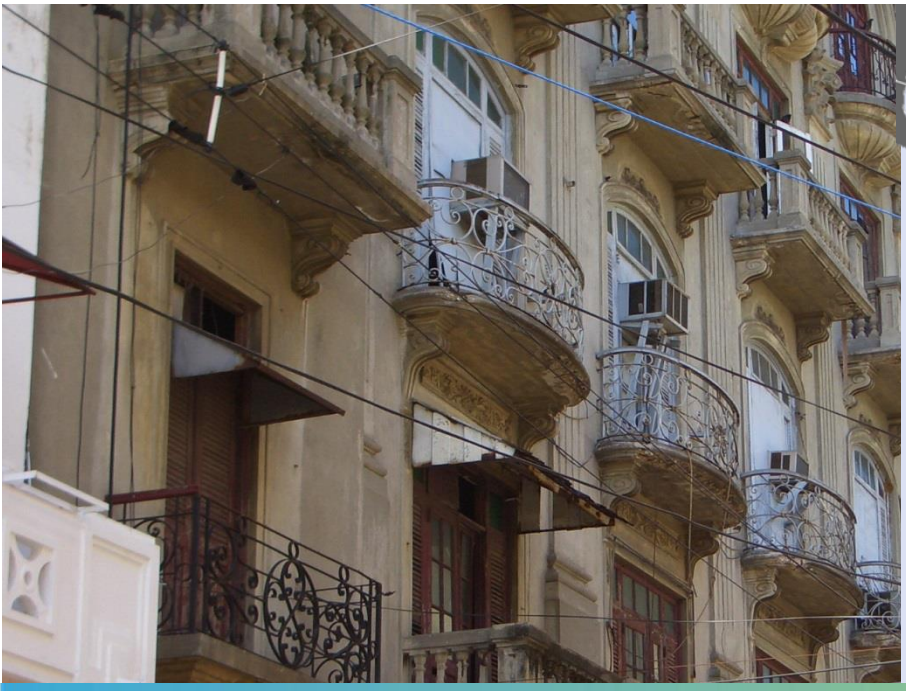
CTCN
CLIMATE TECHNOLOGY CENTRE & NETWORK

CLIMATE CHANGE MITIGATION
Energy use



Dominican Republic

Applicant: Comision Nacional de Energia

National Designated Entity: Mr. Pedro García Brito, Ministerio de Medio Ambiente y Recursos Naturales

Duration: 12 months

Status: Under implementation

Budget: 250,000 USD

Technical Assistance Planned by: UNEP; UNEP-DTU Partnership

Implemented by: UNEP-DTU Partnership

"Leapfrog" to advanced energy-efficient lighting technologies

CONNECTING COUNTRIES TO CLIMATE TECHNOLOGY SOLUTIONS

The Climate Technology Centre and Network promotes the transfer of climate technologies at the request of developing countries for energy efficient, low-carbon and climate resilient development.

By connecting stakeholders with technology experts from around the world, the CTCN delivers customized capacity building and technical assistance aligned with national climate objectives.

CHALLENGE

Lighting use comprises a large proportion of the Dominican Republic's electricity consumption and related greenhouse gas emissions. At the same time, there is a high frequency of electrical blackouts due to unregulated electrical installations and limited enforcement of national quality, safety and performance standards for lighting technologies.

CTCN ASSISTANCE

- Develop a Nationally Appropriate Mitigation Action (NAMA) that will enable the Dominican Republic to transform the market for lighting appliances into high efficiency technologies
- Establish mandatory minimum energy performance standards (MEPS) for efficient lighting products in residential, commercial and industrial applications
- Develop a large scale light-emitting diode (LED) deployment scheme with participation of utility companies to facilitate a rapid transformation of the market to high efficiency LEDs.

INTENDED IMPACT

- With the full implementation of the NAMA, an estimated 730 gigawatt hour of electricity and 430,000 tons of CO2 per year will be reduced
- Reductions in blackout occurrences across the country due to unregulated electrical installations.

UNEP UNIDO

THIS PROJECT ADVANCES:

The Dominican Republic's Nationally Determined Contribution to:

- Contribute to the emissions reduction target by enabling accessible and enduring energy efficiency technologies (LED lights) that leapfrog lower-performing lighting technologies
- Promote transition and further application of LED technologies for industries, small and medium-sized enterprises and households.

What is climate technology?

Any equipment, technique, practical knowledge or skills needed to reduce greenhouse gas emissions and/or adapt to climate change. This includes modern and traditional technologies

Learn more about CTCN technology transfer

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The CTCN is the operational arm of the UNFCCC's Technology Mechanism and is hosted by the United Nations Environment Programme (UNEP) and the United Nations Industrial Development Organization (UNIDO).

THE STORY

The Dominican Republic's energy imports account for more than 85% of domestic energy supply and electricity generation is primarily from fuel and gas oil. The strong oil-dependency, along with oil price fluctuations and foreign exchange rates directly impact electricity costs.

To prevent negative price impacts on end-users, the Government of Dominican Republic established a flat electricity rate, which in the long run has triggered the use of inefficient lighting and electrical appliances in households, public and commercial buildings. As a result, large amounts of electricity is consumed which leads to higher CO2 emissions from the coal based production of electricity.

Through CTCN Technical Assistance, UNEP DTU Partnership is collaborating with the Dominican Republic's National Energy Commission to formulate a policy based NAMA to reduce GHG emissions, while increasing energy access and financial savings. Improved living standards will also be derived through elimination of frequent blackouts in the electricity system.

Long term sustainable development benefits include creation of jobs and new economic opportunities, positive impacts on local communities and support for equal participation of both male and female community members in decision making and implementation.

The CTCN gratefully acknowledges the support of :

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