

## Promoting Energy Efficient Lighting in Togo

### Background

As in many other countries in West Africa, the Togolese energy sector is characterized by heavy reliance on imported fuel oil and electricity, the increasing gap between demand and supply, the lack of reliability of the grid and the poor performance of equipment and appliances used by consumers. The peak load is currently at 100 MW while the baseload is between 50 and 60 MW. By comparison, power availability in the dry season in 2007 is about 40 MW leading to a high level of unsatisfied demand. The only current demand side management measure applied by Compagnie Energie Electrique du Togo (CEET) is scheduled load shedding and power cuts.



Togo's energy and lighting consumption is characterized as follows:

- 80% of peak electricity demand and consumption occurs in Lomé and its surroundings.
- The household sector accounts for 54% of the country's total electricity consumption followed by the industrial sector and the institutional sector which account for 31% and 15% respectively. The daily peak demand occurs between 18:00 and 22:00 when household energy need is high. The household demand is primarily driven by lighting equipment and while a small demand may be attributed to usage of television.
- Most light bulbs used by households are incandescent, leading to a significant gap between peak load and base load. Efficient bulbs when available are of low quality, and cannot withstand the high voltage fluctuations to which the Togolese grid is subject.
- The lighting market is not structured and products are largely imported.

The key challenge in the Togolese lighting market is the low quality of energy efficient lighting products (CFLs) in the market, which leads households to return to incandescent or neon light bulbs. The project will contribute to promote an energy efficiency culture through consumers' information and education, capacity building and awareness raising within major stakeholders, regulatory and institutional framework strengthening including standards and labelling and technical capacity building to test equipment.

### Objective

The overall goal of this project is to introduce energy efficiency and quality standards for efficient light bulbs in Togo through consumers' awareness and a bulk procurement scheme.



### Project Component Activities

- Conduct workshops to raise awareness of energy efficiency issues and solutions amongst government agencies and standardization institutes.
- Develop and implement a marketing and promotion plan for EE lighting products, as well as a consumer information campaign to raise consumer awareness.
- Train private market players (importers and distributors, retailers, etc.) in EE product dynamics.
- Replace 400,000 incandescent light bulbs with EE lighting products in the household sector.
- Develop labels and minimum energy performance standards for EE lighting products.
- Develop and adopt a legal and regulatory framework for EE light bulb standards and labelling, such as an energy efficiency law and procedures for product testing and development.
- Design and construct a national testing facility for EE lighting products.

### Executing Partners/Agencies at National Level

The executing partner/agency in this project is the Compagnie Energie Electrique du Togo (CEET).

### Project Budget

GEF – US\$ 2 million (including PPG and agency fees); Co-financing – US\$ 2.29 million

### Progress

- Project on track and with some targets already surpassed (including training for government/ implementing agency officials and kilometers of drainage network rehabilitated )
- An initial tranche of 15,000 bulbs supplied by the vendor has been successfully used to test the market and also undertake marketing activities around the introduction of energy efficient bulbs in Togo. The remaining 385,000 bulbs are scheduled for delivery in December 2012
- Consultancy underway for designing the awareness campaign and media materials
- The Laboratory equipment for testing CFL is still to be acquired, with bid documents currently under preparation.

Activities	Timeframe	
CEO Endorsement (FSP)	May	2009
Implementation Start	September	2009
Mid-term Evaluation	December	2012
Project Closing Date	December	2013

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