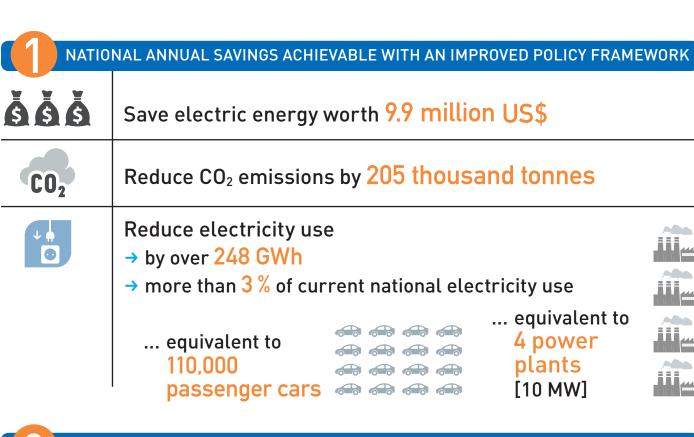
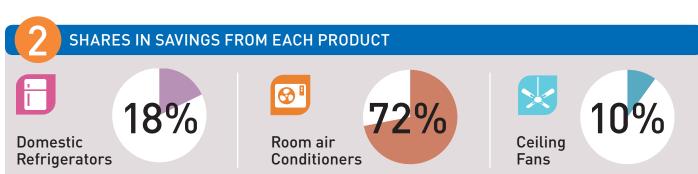


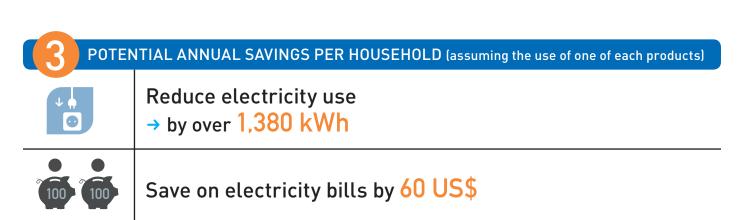
TRINIDAD AND TOBAGO

COOL DOWN THE PLANET - HEAT UP YOUR ECONOMY

Energy efficiency improvement for cooling appliances







THE PATHWAY TO ENERGY EFFICIENCY

Country Specific Data and Input Assumptions

for Trinidad and Tobago



Global Partnership Programme

GENERAL INFORMATION					
Population	1.33 million				
GDP per capita	17,523 US\$				
Electrification level	99 %				

ELECTRICITY MARKET	
Electricity tariff	0.04 US\$ / kWh
CO ₂ Emission Factor	0.7 kg / kWh
Transmission and	16 %
distribution loss factor	

BASELINE OF CURRENT PRODUCTS						
Product	Price	Unit Energy Consumption	Appliance Lifetime	Type of Product		
	(USD)	(kWh / year)	(years)			
Air conditioners	650	2,556	12	Window / wall air conditioner with 3.5 kW (12,000 Btu / hour or 1 ton) cooling capacity		
Fans	100	88	10	Ceiling fan		
Refrigerators	600	485	15	2-door top-mount 300-liter refrigerator-freezer		

METHODOLOGY

The analysis uses CLASP's Policy Analysis Modeling System (PAMS) to forecast the impacts from implementing policies that improve the energy efficiency of new household air conditioners, refrigerators, and ceiling fans. It is assumed policies are implemented in 2020 and saving potentials are from 2030. The potential savings are based on a best-available technology scenario, including all expenditures associated with purchase and use of the product.

ASSUMPTIONS AND DATA SOURCES

- **Population and GDP per capita data** (2012) comes from the World Bank.
- **Electrification level** was provided by country representatives (when available) and the International Energy Agency (IEA).
- **Market size** was determined by data provided by country representatives (when available); industry partners; International Copper Association (ICA); UN Comtrade database; Inter-American Development Bank; household penetration forecasts generated by PAMS from population, climate, and macroeconomic indicators.
- Baseline price, unit energy consumption (UEC), appliance lifetime were provided by country representatives (when available); industry partners; ICA; and Lawrence Berkeley National Laboratory. The business-as-usual scenario assumes a 1 per cent annual improvement in UEC.
- Electricity tariff was provided by country representatives (when available); IEA; and internet research.
- **Transmission and distribution loss factor** is a regional average calculated from electricity production and consumption data published by the International Energy Agency (IEA).
- CO₂ Emission Factor was provided by UNEP and extrapolations were made by CLASP for seven small island nations.
- Consumer discount rate was derived from the Human Development Index, United Nations Development Programme (2012). The rate varies by country from 7% to 13%, with less developed countries having higher rates.















TRINIDAD AND TOBAGO



ENERGY EFFICIENCY POLICY ASSESSMENT For cooling appliances

DOMESTIC REFRIGERATORS								
	Policy in place	Policy type	Mandatory or voluntary	In force				
Energy efficiency standards								
Supporting policies								
Monitoring, verification and enforcement								
Environmentally sound management								
Comment:	No information available.							

ROOM AIR CONDITIONERS Policy in place Policy type Mandatory or voluntary In force Supporting policies Monitoring, verification and enforcement Environmentally sound management No information available.

Policy in place Policy type Mandatory or voluntary Energy efficiency standards Supporting policies Monitoring, verification and enforcement Environmentally sound management

Comment: No information available.