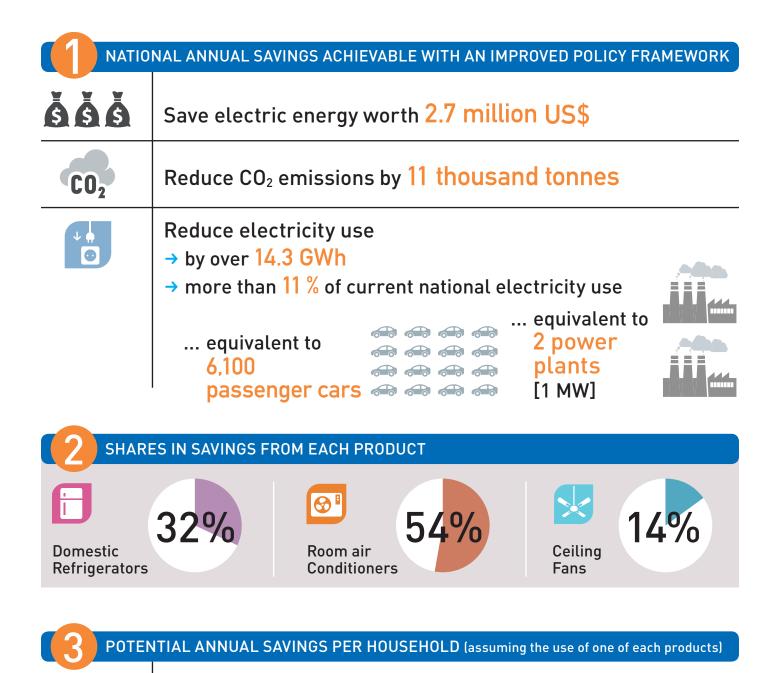


SAINT-VINCENT AND THE GRENADINES

COOL DOWN THE PLANET – HEAT UP YOUR ECONOMY Energy efficiency improvement for cooling appliances



Reduce electricity use

→ by over 1,380 kWh

Save on electricity bills by 260 US\$

THE PATHWAY TO ENERGY EFFICIENCY

Country Specific Data and Input Assumptions for Saint-Vincent and the Grenadines



efficient appliances & equipment

Global Partnership Programme

GENERAL INFORMATION	

Population	109,373
GDP per capita	6,349 US\$
Electrification level	98 %

ELECTRICITY MARKET

Electricity tariff	0.189 US\$ / kWh
CO ₂ Emission Factor	0.65 kg / kWh
Transmission and	16 %
distribution loss factor	

BASELINE OF CURRENT PRODUCTS

Product	Price (USD)	Unit Energy Consumption (kWh / year)	Appliance Lifetime (years)	Type of Product
⊘ Air conditioners	650	2,551	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.











Saint Vincent and the Grenadines

SAINT-VINCENT AND THE GRENADINES



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
Energy efficiency standards				
Supporting policies				
Monitoring, verification and enforcement				
Environmentally sound management				
Comment:	No information available.			

CEILING FANS

	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.