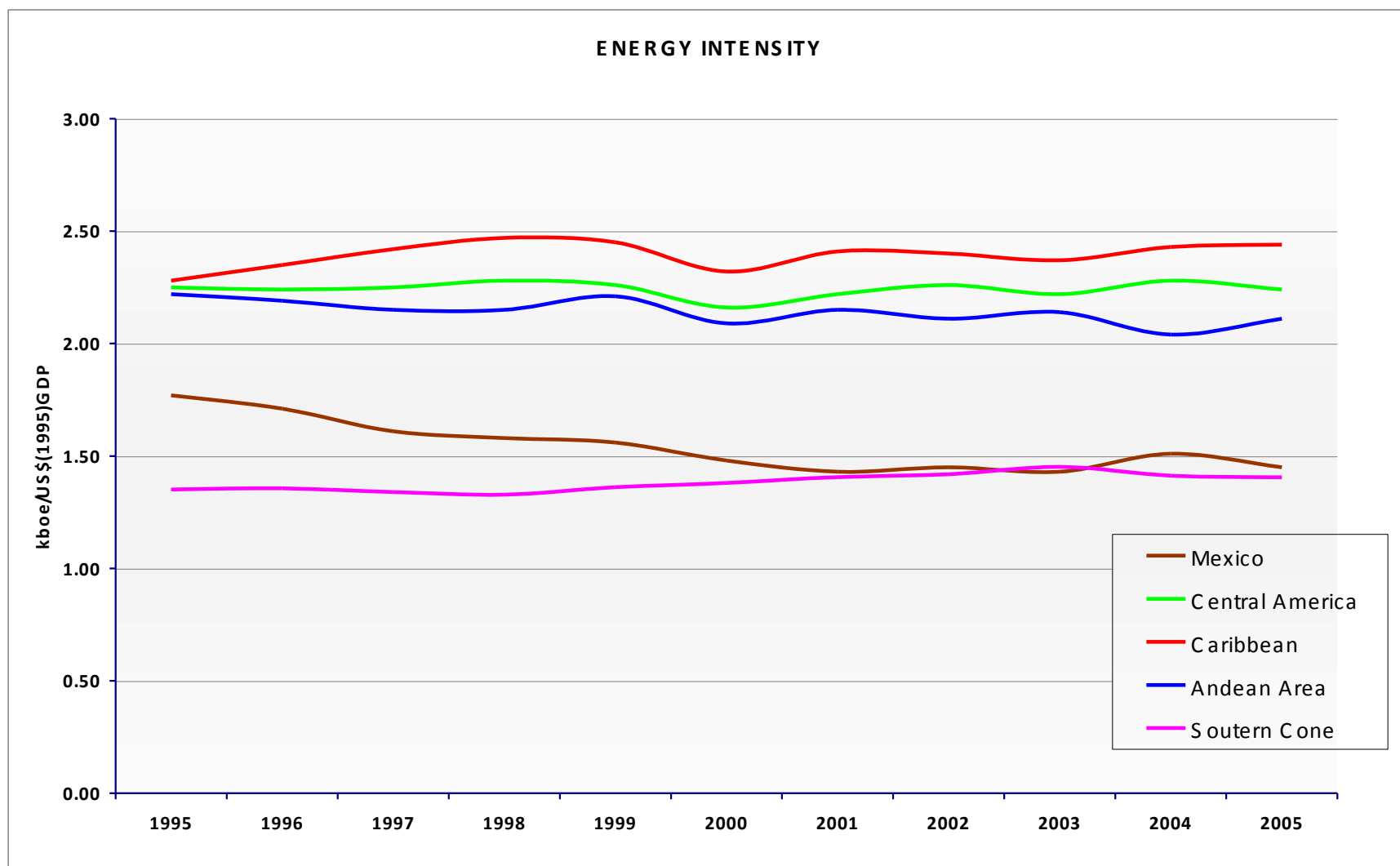




A stylized world map in a lighter shade of blue, centered behind the main title text.

# ENERGY EFFICIENCY IN LATIN AMERICAN AND CARIBBEAN

# Energy Efficiency in Latin America and Caribbean



Source: OLADE's Energy Information System

## Cumulative savings due to energy efficiency in LAC:

Sub-region	Accumulated savings 2003–2018 (millions of US dollars)
Mexico	36.600
Central America	7.200
The Caribbean	9.900
Andean Region	24.900
Brazil	53.600
Southern Cone	23.500
<b>Latin America and the Caribbean</b>	<b>155.700</b>

\* Based on OLADE Prospective Study 2018, considering: transportation, commercial, residential and agriculture & mining (US \$ 50/oil barrel)

# Consolidated experience in Latin America and Caribbean

# Brazil

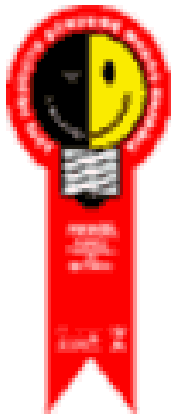


- Program PROCEL by Eletrobras from December, 1985
- Investment fund developed from electric utilities contributions
- Promote energy efficiency actions with least social cost than producing the same amount of saved energy
- Program CONPET by Petrobras, 1991

# Brazil

## PROCEL Program

- Manage the Procel Seal
- 1986-2004 invest US \$ 397 millions
- To save 21,969 GWh
- Equivalent to 6,979 MW and US \$ 7,400 millions in differed investments





# Costa Rica

- Long term plan start by OLADE's Project: PIER in 1993
- RUE Law, November 1994
- Enforced saving projects to all biggest enterprises in the country
- Control of equipment and installations relevant for the country energy demand
- Equipment labeling system

# Cuba

- Program start in November 1997
- Looking for energy security
- Universal use of compact fluorescent lamps
- Replacement of old refrigerators. Use of better models
- Saving measures in industries

# Perú

- CENERGIA, form 1985
- Energy saving program - 1994
- Law No. 27345. Energy Efficiency Promotion, September 2000
  - Promote rational use of energy resources
  - Prepare plans and execute programs
  - Disseminate equipment energy consumptions

# Mexico



- CONAE – Energy Savings National Commission - Created in 1989
  - Decentralized from Energy Secretariat
  - Technical and operationally autonomous
  - National Programs
  - Standardization
  - Technical assistance
- 2004 Results
  - 12,600 kWh saved
  - 2,200 MW differed – US \$ 2,000 millions
  - 8.5 millions of oil barrels saved
  - 12 million CO<sub>2</sub> tons avoided

# Mexico



- FIDE – Trust Fund to Save Electric Energy - Created in 1990
  - Technical and financial Assistance
  - Training
  - FIDE Seal
- 2005 Electricity savings
  - 4,046 GWh due to financial support
  - Summer savings time
  - Avoided investments US \$ 3,383 (10 years)

# Jamaica



- Energy Policy oriented to sustainable development, taking energy efficiency as the main component
- Refrigerators labeling - 1992

# Energy Efficiency regional program

# Energy Efficiency Ministerial Declaration

- Compromise to implement national programs
- Promote rational use of energy
- To reduce environment impact, and,
- Allow social reassignment of saved resources



# Mexico cooperation

- Cooperation with OLADE to develop regional program
- Availability of Mexico's experience to all LAC countries
- Formal agreement signed by the Energy Secretariat

# Regional Energy Efficiency Program

## Program components:

### **I. Efficiency in SMEs and Buildings**

- Energy efficiency measures implementation

### **II. Sustainable Transportation**

- Training of Trainers and drivers based on Mexico and Colombia experiences

### **III. Training of Professionals**

- Interactive energy efficiency training courses
- Measures implementation courses



# Regional Energy Efficiency Program

## Program components:



### **IV. Framework development**

- Institutional framework
- Program framework

### **V. Development of Efficient Equipment Market**

- Efficient equipment incorporation and publicity

# Conclusions

- Energy efficiency policy must be supported by an strong energy policy

- LAC has many places without energy.

Consequence: Emphasis to increase supply

- Reduction of non-technical losses in electricity
- It is necessary to demonstrate energy authorities and energy executives the EE benefits



Organización Latinoamericana de Energía

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Technical Paper

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