



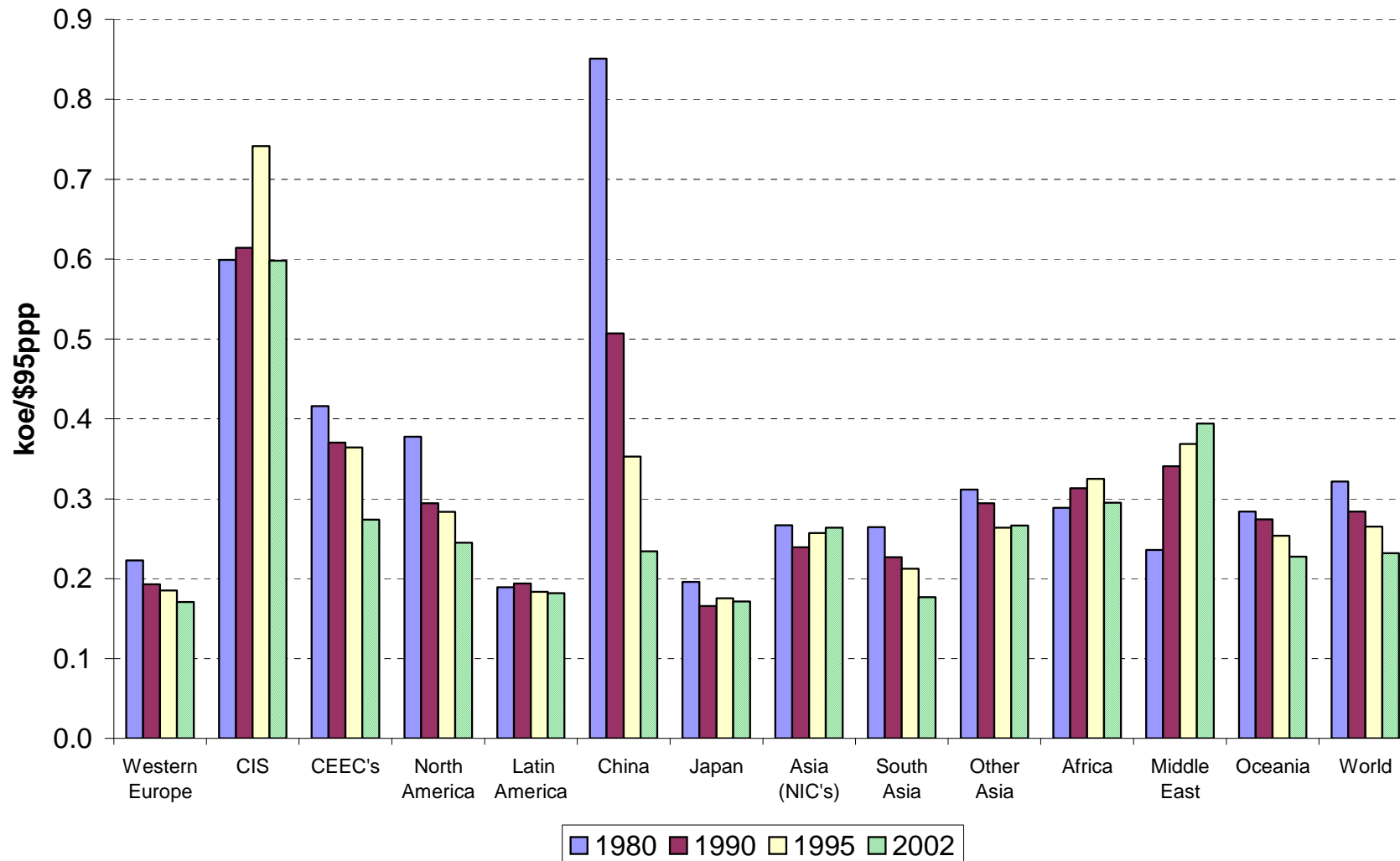
A stylized world map in shades of blue, centered behind the main title text.

# ENERGY EFFICIENCY IN LATIN AMERICAN AND CARIBBEAN

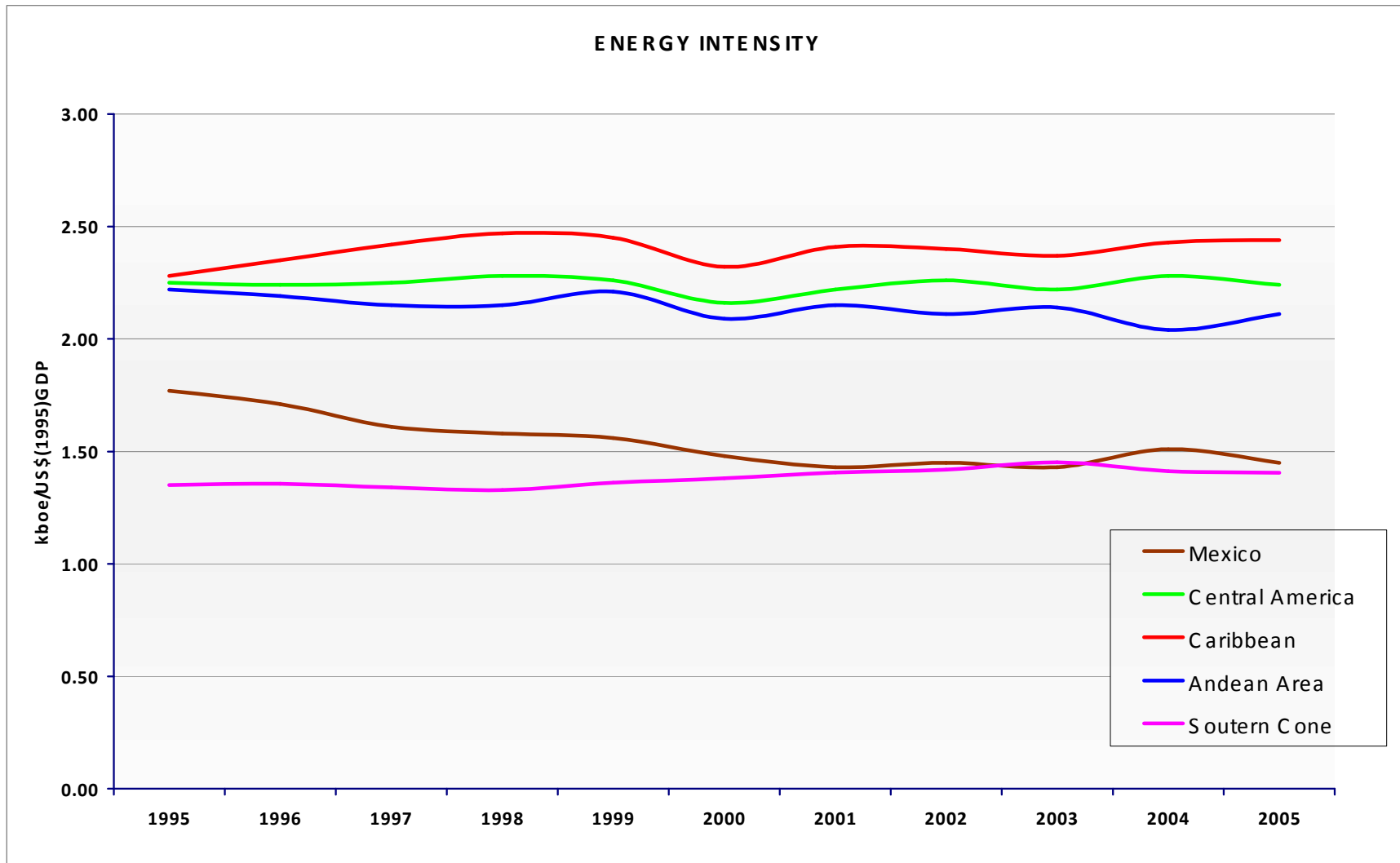
**olade**  
Organización Latinoamericana de Energía

# Energy Efficiency in Latin America and Caribbean

# Energy intensity evolution in the world



Source: WEC



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 deferred – 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. Institutional Strengthening**

- Bulletins and Web Site
- Dissemination of experiences

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

- Efficient equipment incorporation and publicity

# Regional Energy Efficiency Program

## Program components:

### III. Efficiency in SMEs and Buildings

- Energy auditing and implementation

### IV. Sustainable Transportation

- Dissemination of experiences from Mexico and Colombia

### V. Training of Professionals

- Interactive energy efficiency training courses
- Training courses on efficient lighting



# Conclusions

- Energy efficiency policy without an 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

The logo for OLADE (Organización Latinoamericana de Energía) features the word "olade" in a bold, lowercase, blue sans-serif font. The letters are filled with a gradient that transitions from a darker blue at the top to a lighter blue at the bottom, with a white horizontal line separating the two shades.

Organización Latinoamericana de Energía

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Technical Paper

**ENERGY EFFICIENCY: AN UNEXPLOITED RESOURCE**