ENERGY EFFICIENCY IN LATIN AMERICA AND THE CARIBBEAN
Energy Efficiency in Latin America and the Caribbean
Source: OLADE’s Energy Information System
Cumulative savings due to energy efficiency in LAC:

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

* Based on OLADE Prospective Study 2018, considering: transportation, commercial, residential and agriculture & mining (US $ 50/oil barrel)
Consolidated experience in Latin America and the 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

  • 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$_2$ 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
Technical Paper

ENERGY EFFICIENCY: AN UNEXPLOITED RESOURCE