

**APEC Pledge and Review
Chile
March 2002**

Pledge:

1. Energy Efficiency in electrical equipment for labeling purposes
2. National Indexes of energy efficiency are being developed.
3. Study by the National Energy Commission into incorporating energy efficiency into sector regulations.

Review:

1. Energy Efficiency in electrical equipment for labeling purposes

This project is being developed in conjunction with the National Normative Institute. Starting with a research in order to gather the existing norms and then evaluate its need of modification. So far 43 norms have been identified and most of them are homologues or adaptations for the national scenario of ISO and ICE norms. These norms establish energy use, measurements and efficiency parameters and that will be used as information for the consumer, the media to give this information has not yet been determined, but it is expected to have it solved by the end of year 2002. In the Annex n°1 is the norms list.

The process of formulation of the energy efficiency norms goes through the following stages:

- Identification of the international norm that will serve as reference.
- Translation when it is needed
- Public participation process
- Discussion and definition of the norm by the Technical Committee
- Approval by the National Normative Institute's Council
- Decree of the Ministry of Economy so the norm becomes officially a voluntary Chilean norm.

2. National Indexes of energy efficiency.

The Commission finished in March 2002 a study that analyses energy efficiency indexes for some industries during the period 1990 to 1999. The analyzed sectors are:

- Copper
- Iron
- Benton
- Sugar
- Fisheries
- Steeling Industry, steel work

For the members economies who are interested, the study is available at the National Energy Commission.

3. Study by the National Energy Commission into incorporating energy efficiency into sector regulations.

The work related to sector regulations has been developed specifically on thermal standards for construction. In 1996 the Ministry of Housing and City Planning with the National Energy Commission established a Regulation Program regarding temperature isolation on houses, with three stages:

- Specific requirements for the roofs
- Specific requirements for the walls, floors and windows
- Global requirements for energy certification.

The first stage began in March 2000 and established requirements for the roofs considering the Chilean regional climate characteristics.

The second stage started in year 2001 and is still in process. The two institutions mentioned before are working on this issue with the collaboration of the Building Institute. For this phase the following four studies are being developed in order to assemble the necessary information to regulate.

Study	Objective
1	<ul style="list-style-type: none">• Definition of basic prototypes
2	<ul style="list-style-type: none">• Study on the temperature performance of housing and recommendations to improve it• Gathering alternative solutions for the building processes• Isolation balance for windows• Requirements of solar protection for windows
3	<ul style="list-style-type: none">• Pricing and feasibility of the building alternatives• Calculation of energy costs• Calculation of economic benefits
4	<ul style="list-style-type: none">• Effective span of windows• Condensation characteristics of wall materials• Checking the building material characteristics on acoustic isolation efficiency