

## **Brazilian PROCEL Results in 2007**

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### **Introduction**

The National Electricity Conservation Program — PROCEL — is the Brazilian program implemented by Eletrobrás Company (the Federal holding company for electricity generation and transmission), in order to promote the efficient use of electric energy and to tackle its waste. PROCEL runs subprograms that are directly involved in the execution of actions and projects in the public and the private sectors. Some of these subprograms are aimed at promoting efficient technologies and energy efficiency information dissemination; others subprograms are related to user's habit changes and capacity building.

### **Results**

The annual PROCEL evaluation shows its benefits for the electrical sector, the environment and the society. This results evaluation helps the Program planning process for short, medium and long term.

The actions accomplished in 2007 by PROCEL contributed to energy savings of 3.93 billion of kWh, equivalent to approximately 1% of the electrical energy consumption in Brazil in this year. This result is equivalent to the amount of energy supplied by a hydroelectric plant power with a capacity of 942 MW, which would require an investment of R\$ 2.76 billion in the electrical sector.

PROCEL accrued results, since 1986, represent overall energy savings estimated at 28.5 billion kWh. This saved energy corresponds to the consumption of approximately 16 million households over a period of one year.

Beyond the economic benefits, it is important to emphasize the beneficial effects on the environment subsequent to the equivalent non-built power plant. This feature is even more relevant to current worldwide concern with environmental preservation. The contribution of PROCEL in increasing the operational reserve level of its supply system, since it reduces peak demand, is also noteworthy.

The result of each action of PROCEL is obtained through the application of specific and continuously improved methodology. In this aspect, the work developed at the Federal University of Itajubá for improving the procedures towards obtaining the PROCEL Seal results stands out. PROCEL Seal is the main tool to induce energy efficiency in equipment, household appliances and solar water heating systems nationwide.

Thus, the objective of this poster is to present the main results obtained through activities implemented in 2007 within the scope of the PROCEL.