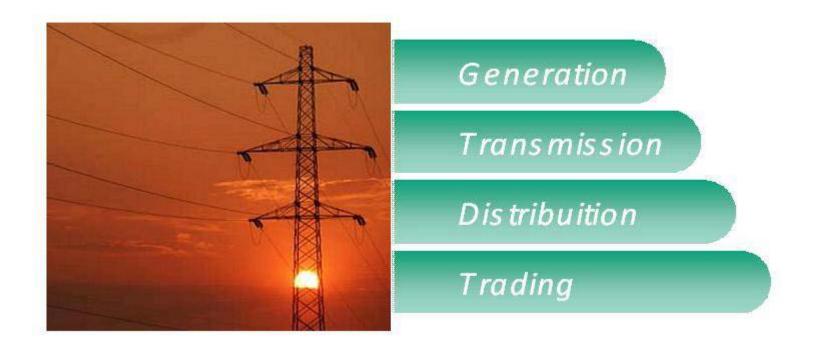




NEOENERGIA is one of the leading groups in the Brazilian Energy Sector, acting on four areas:



Utilities: COELBA, CELPE and COSERN located in the northeast of Brazi



General Context for Energy Efficiency activities in Brazil

Since 1995, Brazil has undertaken a major reform in its electric sector (privatization of utilities).

As a result a National Regulatory Agency (ANEEL) was created in 1996 to assume a supervising role.

Distribution Utilities have been obliged by law since 1998 to invest 1% of their annual net revenues in energy efficiency and R&D activities.

In 2010, a law passed by Congress, reinstated the energy efficiency allocation to 0,50%, 60% of which must be spent on energy efficiency measures targeted at low income households.

This program for low income clients is only applied to those benefited by the social energy tariff.

In order to obtain the social tariff the client must be registered in the National Unified Register for Social Programs.

The social tariff is a discount given according to consumption:

0 to 30 kWh – 65% off 30 to 100 kWh – 40% off 100 to 220 kWh – 10% off

For the indigenous people and "quilombola" communities (slave descendents living in villages in rural areas of the state) the discount given is 100% with a consumption of up to 50kWh/ month.

Consumption

Number of Clients

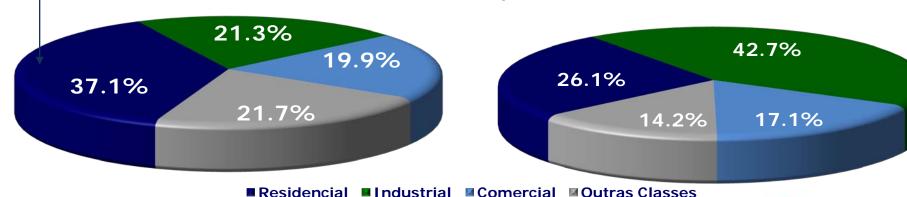
Em mil

Distribuidora	2004	2005	2006	2007	2008	2009	2010	2011
Coelba	3.653	3.844	4.040	4.269	4.462	4.676	4.901	5.082
Celpe	2.588	2.605	2.706	2.787	2.900	3.009	3.100	3.156
Cosern	838	875	929	974	1.014	1.074	1.133	1.164
TOTAL	7.079	7.324	7.675	8.030	8.376	8.759	9.135	9.402

Consumption (GWh) per Class - Neoenergia

Consumption (GWh) per Class - Brazil

30% classified low - income, was 50% in 2010



Fonte: Demonstrações Financeiras Grupo Neoenergia Dados de consumo de dezembro de 2011, fonte EPE



Observation shows that low income families, find it hard to finetune energy consumption and sustainable payment, even when efficient consumption habits are adopted. The studies carried out by NEOENERGIA have indicated that high consumption is mainly caused by:

- high number of electrical appliances, when compared to income levels;
- use of low efficiency light bulbs;
- risk and energy loss due to poor electrical installations, lacking even switches;
- use of refrigerators in bad state of conservation;
- housing with no ventilation or natural lighting;
- excessive tax on the electric bill.







Energy Loss

Coelba



Celpe

17.76





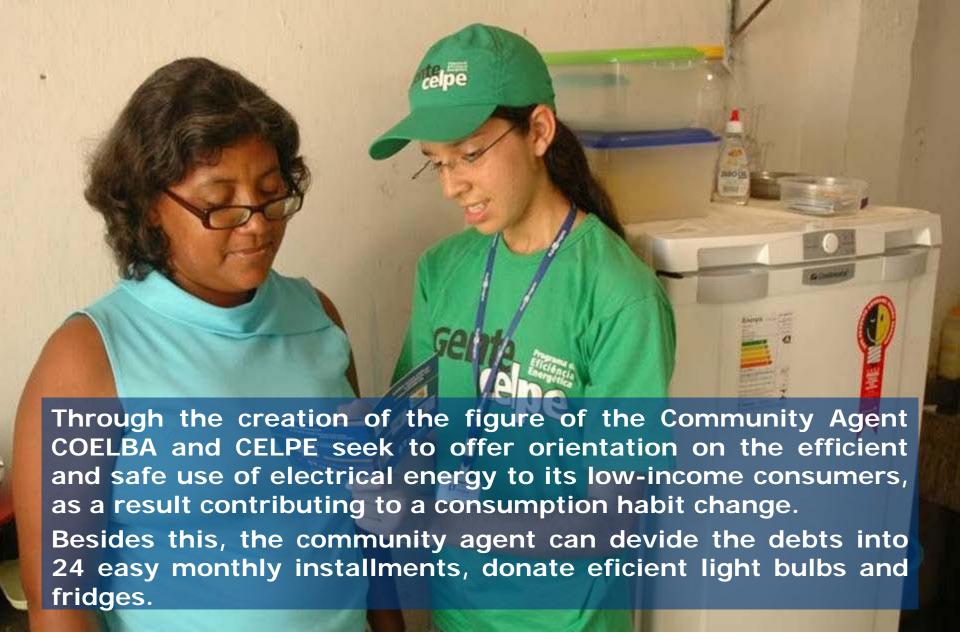


2010

16.61

Projects for low-income communities in the Northeast of Brazil.







Refrigerator Donation Project









Project New Refrigerator donates efficient energy refrigerators to residential consumers from low-income communities in the states of Bahia, Pernambuco and small cities in the state of Rio Grande do Norte. Those who consume over 80kWh/ month, plus have the social tariff (registered in the National Unified Register for Social Programs), are given a new fridge in exchange for the old inefficient one.



Refrigerator Exchange Project





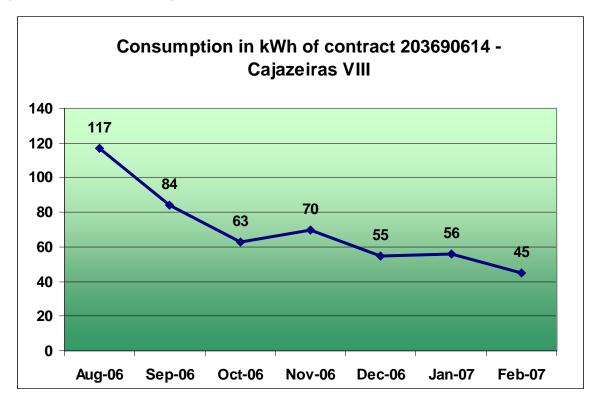






RESULTS

Consumer who received all the benefits: Refrigerator donation (07/08/2006); electrical rewiring (06/09/2006); window installation in 04/01/2007



The electrical energy bill in February 2007 was 45 kWh – (US\$ 13.80) In August 2006 the bill was (US\$ 36.00) Investment: pay back with social tariff: 181 months

without social tariff: 30 months





Through the project New Refrigerator, launched in 2006, Neoenergia provided the replacement of 180 thousand refrigerators, ensuring reduction of 204 GWh / year (half the energy consumed annually in the state of Acre in Brazil*) in the energy consumption of low-income families of Bahia, Pernambuco and Rio Grande do Norte. In 2011, 75 municipalities in three states were visited by Celpe, Coelba and Cosern.

As a result, Neoenergia avoided the need to build a hydroelectric power plant of 40,7 MW, eliminating investments of about 155 million dollars from state coffers. This project since 2006 invested US \$ 98 million in these three utilities.



The perception in regards to the Refrigerator Exchange Program is very positive and strongly associated to the money saved. Before the refrigerator exchange the energy bill expense represented a cost between US\$ 41 and

US\$ 47, after the exchange the cost fell to an average of US\$ 17. A monthly savings of approximately US\$ 30 is considered a significant value, especially for low- income families. This economy is reverted to the family, be it in grocery, appliances or entertainment expenses. Highlighting the importance that the consumer attributes to the program as it provides them with more quality of life and buying power as there is a significant savings in the energy bill. (GIZ research)







International Recognition

The Montreal Protocol Exemplary Project Recognition

On this 20th Anniversary of the Montreal Protocol on Substances that Deplete the Ozone Layer, the United Nations Environment Programme would like to recognize

Neoenergia

for it's contribution to the Exemplary Project

Coelba's Replacement of Inefficient Refrigerators in the context of National CFC Phase-Out Plan

which has supported the global effort to protect the Ozone Layer







Refrigerator Donation Project won recognition as an exemplary project in commemoration of twenty years of the Montreal Protocol

SALE OF COLLECTED OLD FRIDGE

VALE LUZ PROJECT





VALE LUZ COELBA (LIGHT STIPEND) Project consists of the exchange of recycled material for discount coupons given by COELBA, which are used to pay part or all of the consumer energy bills.







The following material is bought from consumers:

- -White paper
- -Cardboard
- -Magazines
- -PET
- -Steel
- -Aluminum
- -Iron



Service in 24 low income neighborhoods in Salvador / BA, 15 in Recife/PE The utilities provide 03 collected trucks.

135 tons of recyclable material were collected

1,225 consumers enrolled

US \$ 20,934 discount on energy bills



ITINERARY EDUCATION PROJECT





The truck transforms itself into a classroom in order to disseminate information on energy efficiency.

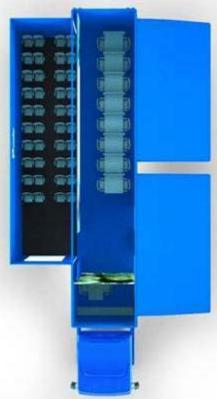






New Truck for customer service







energia Sua iniciativa vai ajudar o planeta.







BENEFITS

- Upon registration → 5 compact fluorescent lamps are donated;
- Right to → One bonus for changes of air conditioners, fridges and freezers certified with the PROCEL Stamp of energy efficiency.
- Right to collection → of the used appliance, so it may be sent to adequate discard by the utility.

CONDICIONADOR DE AR				CONDICIONADOR DE AR			
	CAPACIDADS	QUANTIDADE DISPONÍVEL*	VALOR BÔNUS (R\$)		QUANTIDADE DISPONÍVEL*	VALOR SÖNUS (R\$)	
SPLIT	700 BTU 9000 BTU 1200 BTU	752 602 14	240,00 265,00 265,00	VERTICAL VERTICAL FROST FREE HORIZONTAL	29 56 30	300,00 400,00 300,00	
	CAPACIDADS	PACIDADE QUANTIDADE DISPONÍVEL" VALOR BÔNUS (R\$)		TOTAL	715		
JANELA	7500 BTU	BTU 752	240,00 265,00 265,00	TELEVISORES - LCD			
	10000 BTU 12000 BTU	128			QUANTIDADE DISPONÍVEL®	VALOR BÖNUS (RS)	
REFRIGERADOR			TV LCD 26" TV LCD 32" TV LCD 42"	450 700	220,00 300,00		
QUANTIDADE DISPONÍVEL® VALOR BÔNUS (R\$)				850	420,00		
1 POETA 496 2 POETAS 661 2 POETAS FROST FEEE 2,149		300,00	TOTAL	2.000			
			400,00 500,00	TOTAL DE EQUIPAMENTOS A SEREM BONIFICADOS	7.701		
TOTAL 3.306			THE RESERVE TO SHARE THE PARTY OF THE PARTY	06/2011. Os valores atuais podem			







DESCRIPTION AND DETAILS

CLIENT → contributes with donation charged through the energy bill with values varying between US\$ 21 and US\$ 49 in 3 up to 12 installment payments, according to the medium energy consumption during three months.

CONTRIBUTION → reforestation of the Atlantic Forest accomplished with community participation, generating income and social-economic development to families in rural settlements

TAINA DE CONCINIO	VALOR DOADO (R\$)					
FAIXA DE CONSUMO	À VISTA	3 VEZES	6 VEZES	12 VEZES		
100 KWH A 200 KWH	36,00	12,00	6,00	3,00		
201 KWH A 400 KWH	60,00	20,00	10,00	5,00		
ACIMA DE 400 KWH	84,00	28,00	14,00	7,00		



RESULTS

Equipments	Stage 01	Stage 02	Stage 03	Total
lamps	44.790	109.092	39.608	193.490
TV		2.875		2.875
Fridge	8.705	6.814	2.172	17.691
Air Conditioning	1.275	1.271	94	2.640
Freezer	346	192	133	671
Total -Changed	10.326	11.152	2399	23.877
Total - Enrolled	8.958	12.202	4.142	25.302



Thank you for your attention!

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