

The energy consumption label is no longer an optional criterion in the choice of an appliance by the Brazilian consumer, who feels the effects of the current water crisis in the country. Aware of this, manufacturers bet on ...

Thankfully, this energy is produced by a large rooftop solar array that produces about 1400kW per month. This not only generates enough energy for the home, but also for heating the pool...

This paper aims to present an architectural proposal, as an alternative solution with the same cost restrictions of the national housing program, targeting for significant quality, ...

In addition to the environmental gains, one of the main benefits of using solar energy in Brazilian homes is energy savings. Solar energy can significantly lower or even eliminate...

The existing Brazilian energy mix is 74.5% renewable and clean sources (BEN, 2020). Given this situation, the construction industry lacks interest in zero-carbon buildings. So how could Brazil reach zero carbon buildings if its buildings are so far from energy efficiency and satisfactory thermal performance?

From estimates of the number of window and split air-conditioners in operation in Brazilian households in 2007 and the unit consumption as function of local conditions and energy efficiency indicators, it has been possible to estimate the potential for saving energy and reducing peak demand by such equipment in the residential sector of Brazil ...

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The energy consumption label is no longer an optional criterion in the choice of an appliance by the Brazilian consumer, who feels the effects of the current water crisis in the country. Aware of this, manufacturers bet on power efficiency to convince a consumer with purchasing power weakened by inflation.

The use of solar collectors for water heating is an alternative that can dramatically reduce this energy consumption in a country like Brazil, which has favorable conditions and levels of solar...

CasaE, Brazil's first energy efficient house built by BASF and partners, shows some solutions. By 2050, around 75% of the world's population will live in cities. How do we meet rising demand for urban housing without it costing the earth?

PRODEEM's "Energy Program for Small Communities" (Programa de Desenvolvimento Energético de Estados e Municípios), and various State programs such as Luz Solar (home electrification) and Luz no Saber (electrification of schools) in Minas were specifically beneficial to building's solar-energy use.

Energy labels and minimum efficiency policies are proven policymaking tools to reduce upfront appliance costs and cut household energy use. Brazil's government has committed to improving appliance efficiency in the upcoming years -- opening the floodgates for affordable, planet-friendly appliances for all Brazilians.

This paper aims to present an architectural proposal, as an alternative solution with the same cost restrictions of the national housing program, targeting for significant quality, comfort and energy efficiency improvements.

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