

UNEP – SBCI 2012 AGM and Symposium

Resource Efficiency and Green Economy: Opportunities for Sustainable Buildings and Cities

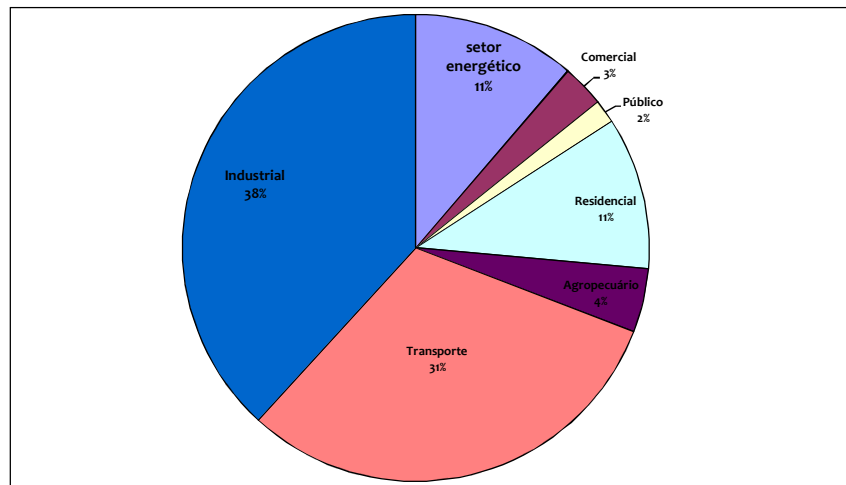
Resource efficiency and Green Economy Leading the way to resource efficiency: the role of the building sector

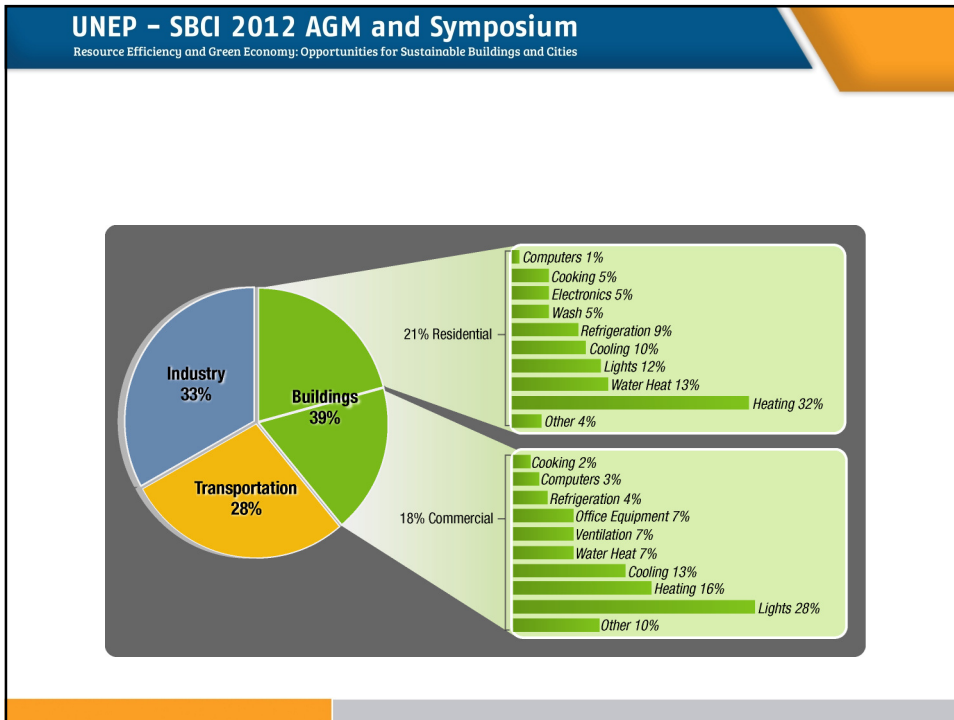
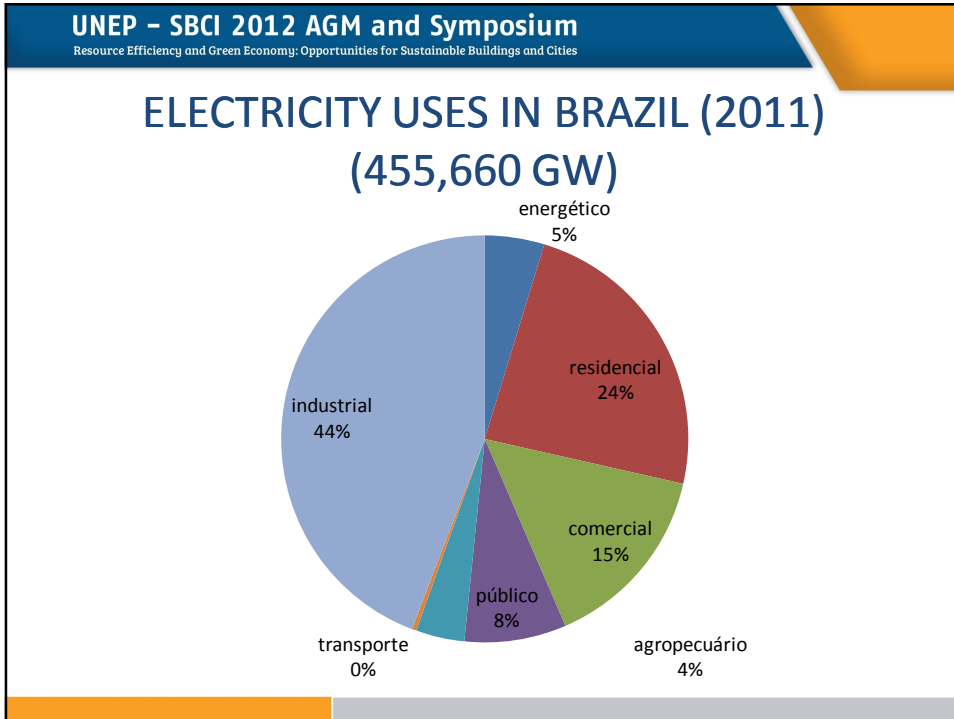
Professor José Goldemberg
University of São Paulo
13/06/2012

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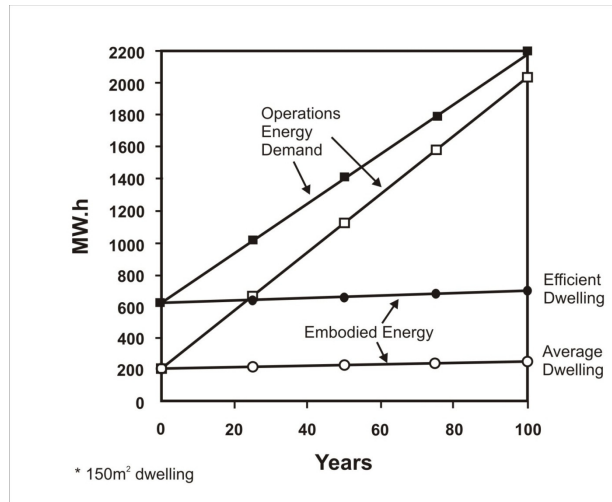
FINAL ENERGY CONSUMPTION B SECTOR (BRAZIL 2010)





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The energy for operation is typically 129kWh/m² per year or 6,000kWh/m² over the lifetime of the building of 50 years. The embodied energy in conventional houses is only 10% of the operating energy spent in the 50 year lifetime.

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BARRIERS TO IMPROVEMENTS IN THE EFFICIENCY IN THE BUILDINGS SECTOR

- Split incentives
- Building practices
- Financial constraints
- Market structure
- Misperceptions
- Behavioural challenges

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INSTRUMENTS OF GREEN POLICY IN THE BUILDING SECTOR

- | | |
|---|---|
| <ul style="list-style-type: none"> • Regulatory and fiscal instruments <ul style="list-style-type: none"> – Building standards – Appliance standards – Structural incentives – Fiscal instruments • Financing instruments <ul style="list-style-type: none"> – Process oriented finance – Sector specific finance | <ul style="list-style-type: none"> • Market-based instruments <ul style="list-style-type: none"> – CO₂ certificates – White certificates – Green certificates • Guiding and voluntary instruments <ul style="list-style-type: none"> – Sustainability labeling – Energy audits – Voluntary instruments |
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