Infosys data

In 2007-08

- **Building energy**: 200 units/sqm per year
  - Average for software buildings (incl. lights, AC, computers, etc.)

- **Lighting design**: 1.2 W/sqft
  - Average for software buildings across campuses

- **AC design**: 350 sqft per TR
  - Average installed cooling capacity across campuses

- **Electrical design**: 6.5 W/sqft
  - Total electrical load for software buildings including chiller plant
In 2011-12

- Building energy: 90 units/sqm per year
  - Average for software buildings (incl. lights, AC, computers, etc.)
    - 55% lower

- Lighting design: 0.45 W/sqft
  - Average for software buildings across campuses
    - 62% lower

- AC design: 550 sqft per TR
  - Average installed cooling capacity across campuses
    - 36% lower

- Electrical design: 3.5 W/sqft
  - Total electrical load for software buildings including chiller plant
    - 46% lower

Promote interaction between design consultants

- Building envelope performance as part of the architect’s contract
  - Maximum envelope load parameter

- Day lighting criteria as part of architect’s contract
  - Day lighting to be achieved as per LEED/GRIHA standards

- Performance criteria for HVAC consultant
  - Criteria on overall energy efficiency of the system
Electrical Design

<table>
<thead>
<tr>
<th>Sl. No.</th>
<th>System Description</th>
<th>Units</th>
<th>Old</th>
<th>New</th>
</tr>
</thead>
<tbody>
<tr>
<td>01</td>
<td>Lighting</td>
<td>W / Sq.Ft</td>
<td>1.20</td>
<td>0.40</td>
</tr>
<tr>
<td>02</td>
<td>Lifts / Geyser / Coffee machine / Hand dryer</td>
<td>W / Sq.Ft</td>
<td>0.50</td>
<td>0.20</td>
</tr>
<tr>
<td>03</td>
<td>Server &amp; Hub Room - IT</td>
<td>W / Sq.Ft</td>
<td>0.20</td>
<td>0.20</td>
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<tr>
<td>04</td>
<td>Computers</td>
<td>W / Sq.Ft</td>
<td>1.50</td>
<td>1.00</td>
</tr>
<tr>
<td>05</td>
<td>Office Air-Condition</td>
<td>W / Sq.Ft</td>
<td>1.30</td>
<td>0.70</td>
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<tr>
<td>06</td>
<td>Chiller plant</td>
<td>W / Sq.Ft</td>
<td>1.80</td>
<td>1.00</td>
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<tr>
<td>TOTAL</td>
<td></td>
<td>W / Sq.Ft</td>
<td>6.50</td>
<td>3.50</td>
</tr>
</tbody>
</table>

Energy efficiency at Infosys (India operations)

- Increased by 20%
- 32% improvement
- Savings equivalent to 292 million units since 2007-08
Lighting system

New buildings lighting design 50% more efficient than global ASHRAE standards

- **2X** reduction in the installed lighting load
- **~3X** reduction in lighting energy consumption

Air Conditioning system

New buildings AC design 50% more efficient than global ASHRAE standards

- Figures based on actual measured data in Hyderabad campus for 2011-12
- **3X** improvement in efficiency compared to 2007 design
- Radiant cooling at no additional cost!
Impact of Energy Efficiency Initiatives to the bottom line

32 Million USD saved in 4 years!
Investment made: <10 Million USD

Water efficiency at Infosys (India operations)

Savings equivalent to 1.36 billion litres since 2007-08
Sustainability @ Infosys

- 5 LEED Platinum certified buildings in India (over 1.2 million sq.ft.)
- Over 5 million sq.ft. of new buildings in various stages of green building certification
- Infosys has redefined benchmarks for energy efficiency in Indian industry.
- Infosys is now an industry leader in energy efficiency in India.

How Infosys achieved these goals?

- Set unreasonable targets
- Question every assumption
- Right design and right engineering
- DATA monitoring & control to ensure consistent performance
- Showing social and environmental responsibility and leadership