

# ITC Green Centre – Gurgaon LEED Platinum



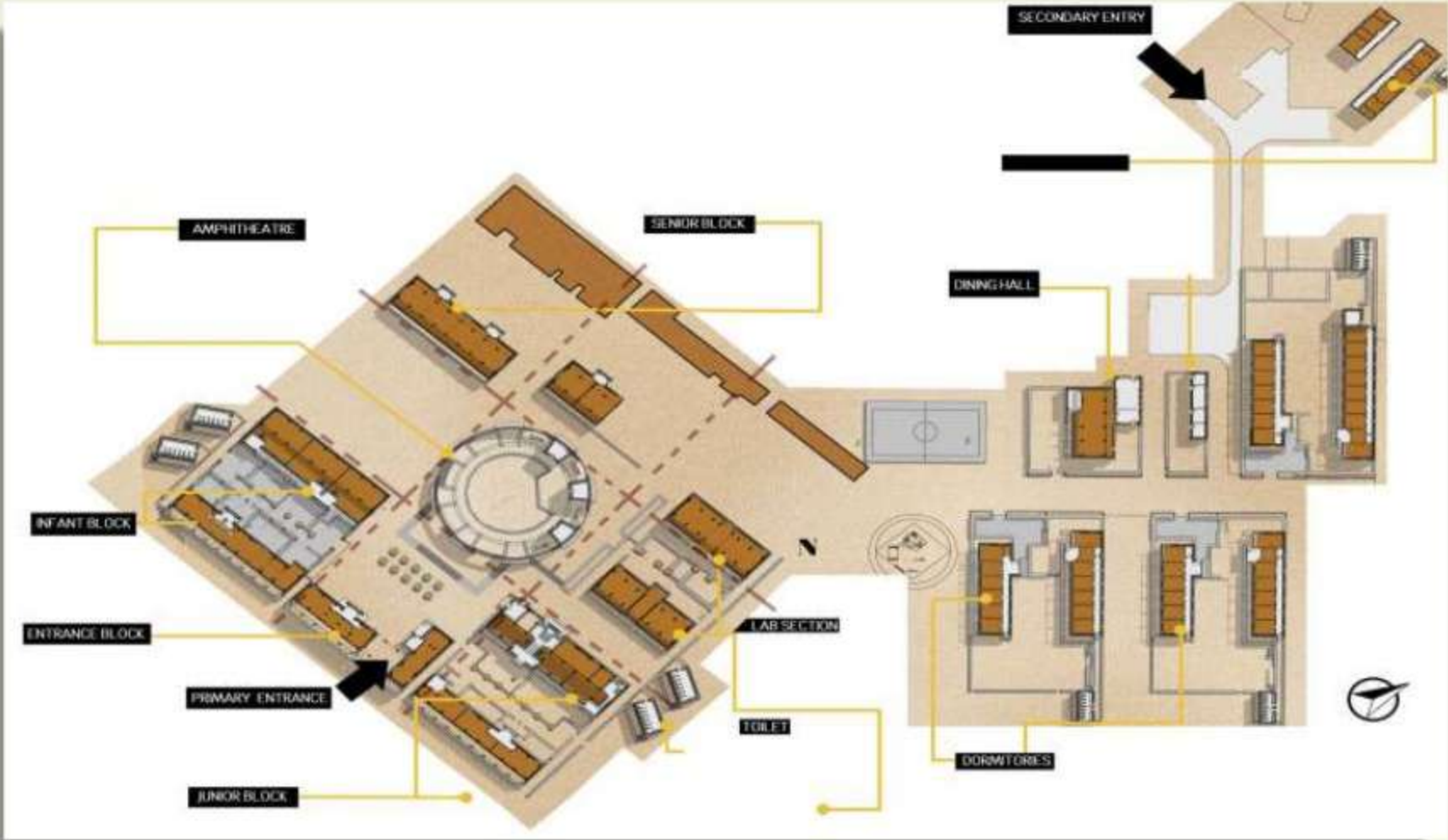
# The Druk White Lotus School – Ladakh

## Best Green Building Awards



# The Druk White Lotus School – Ladakh

## Best Green Building Awards



# **Green Building In India**

- **La Cuisine Solaire - Auroville**
- **The solar kitchen at Auroville is perhaps the best example of demonstrating the use of solar energy to produce steam. This 1700 sq. m. kitchen is named thus because of the huge 15 diameter solar bowl that has been fixed at the top of the structure to harvest solar energy.**
- **Doon School - Dehradun**
- **This one is India's first green school campus that opted for recycling measures and successfully achieved cent per cent self-sufficiency in energy, water and organic fertilizer. Several old building blocks that were part of the 69 acre school were redesigned and solar thermal systems, waste management processes as well as biomass gasification systems were introduced as part of its green initiatives.**

# La Cuisine Solaire - Auroville

## 1700 sq. m. Solar kitchen



# **Doon School – Dehradun**

## **India's first green school campus**



# **Green Building In India**

- **Raintree Hotels - Chennai**
- **Here is an eco-sensitive hotel for the eco-savvy traveller.** The entire chain of Raintree business hotels across Chennai city are the **first eco-sensitive hotels in South India.**
- **Rajiv Gandhi International Airport - Hyderabad**
- **India's first Greenfield airport is undeniably among the top 10 green buildings in India and the first airport in Asia to be awarded the LEED 'Silver' rating certification by US Green Building Council.** Featuring 100,005 sq. m. of glass encased terminal, this green building ensures optimal use of natural light and minimal wastage of electricity or energy consumption.

# **Raintree Hotels – Chennai**

## **First Eco-sensitive Hotel In India.**





# Rajiv Gandhi International Airport – Hyderabad LEED ‘Silver’ rating certification



# **Green Building In India**

## **Nokia - Gurgaon**

- **Among India's most sustainable buildings is the corporate office of Nokia in Gurgaon which has been granted accreditation as one of the world's leading green buildings by the U.S. Green Building Council (USGBC). This is the first time that a commercial interior fit-out project in India is being awarded the Green Building Award and prestigious LEED 'Gold' rating.**

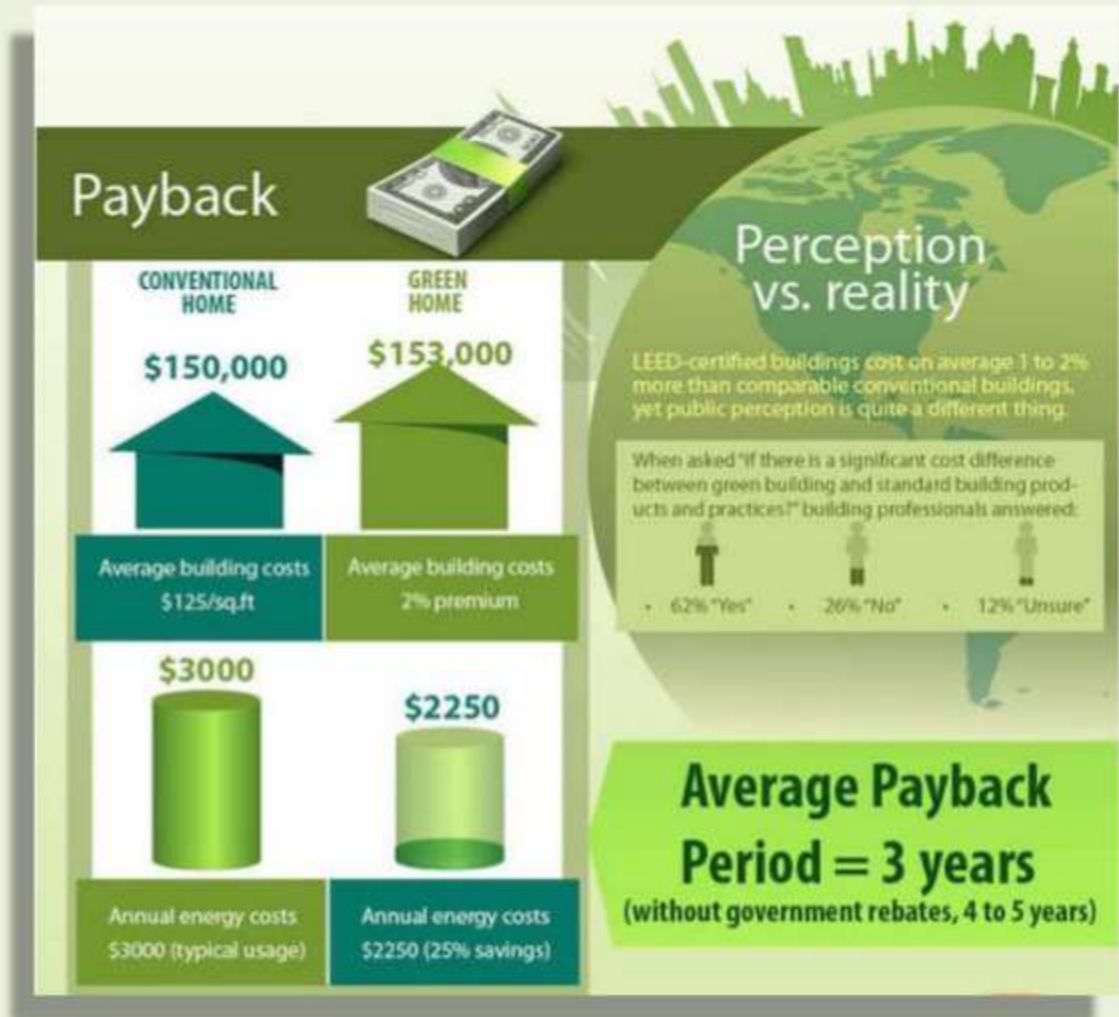
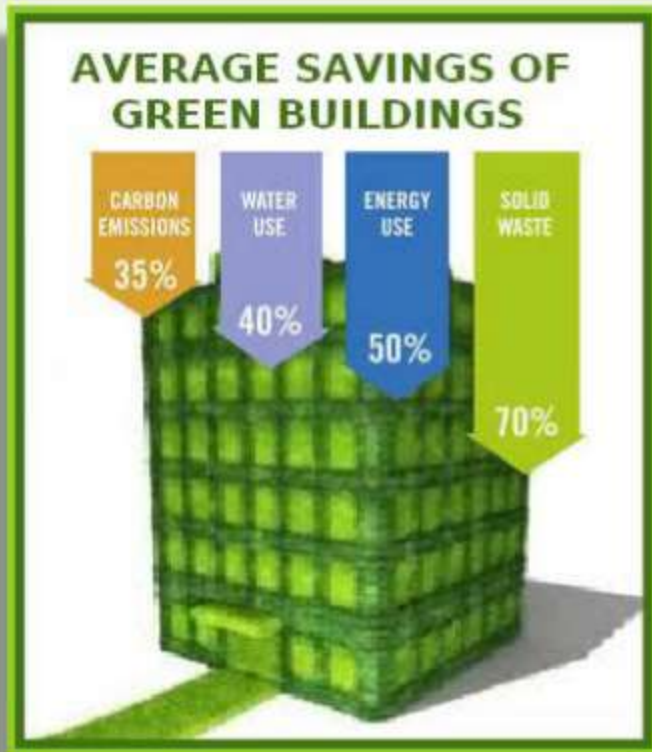
# Nokia – Gurgaon LEED ‘Gold’ Rating



# **Green Building Economy And Investment**

- It is predicted that energy efficiency in building and appliances can reduce 1.6 Gt CO<sub>2</sub> in 2020 and up to 7Gt CO<sub>2</sub> in 2050.**
- In terms of region, the fastest growing regional green building market is Asia.**
- Over 85% firms expect rapid or steady growth in sales and profit levels associated with green building.**
- GB is a win – win situation for all stake holders: developers, builders, policy makers and the world as whole.**

# Green Building Economy And Investment



# Green Building Economy And Investment

- **Buildings have a large effect on the environment, human health and the economy.**
- **The successful adoption of GREEN BUILDING development** can maximize both the economic and environmental performance of the buildings.



# **Benefits of Green Buildings**

- **A Green Building can have tremendous benefits, both tangible and intangible. The immediate and most tangible benefit is in the reduction in water and operating energy costs right from day one, during the entire life cycle of the building.**

# Benefits of Green Buildings



Green Banao



## Benefits Of Green Buildings

### Environmental Benefits



Green Buildings are inherently designed to make the best use of natural resources. A Green Building is much more friendly to the environment than a normal building.

### Economic Benefits



The overall cost of a Green Building is less as compared to a normal building because it uses less resources like energy & water. It also increases the value of the property.

### Social Benefits



Green Buildings are very good for the health of entire eco-system that occupies it. They also decrease the load on local infrastructure.

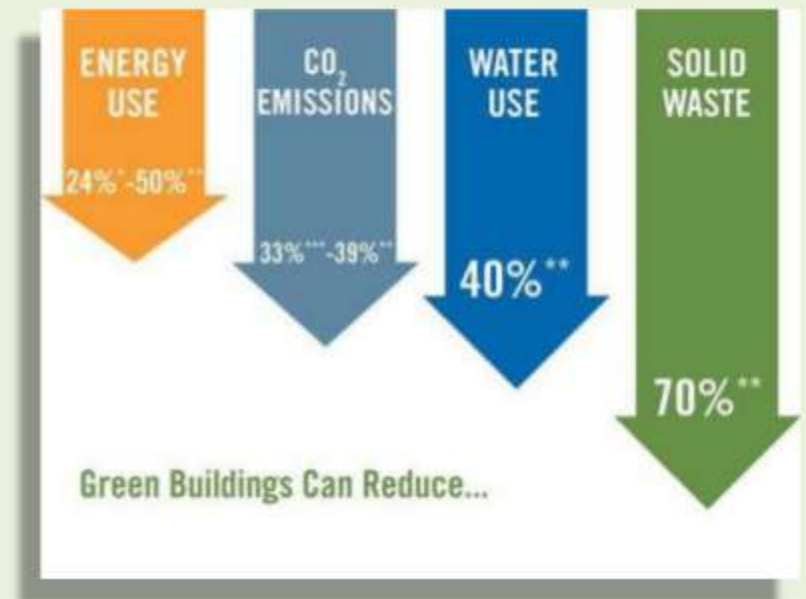


# Benefits of Green Buildings

## Tangible Benefits

**Energy Savings : 20 - 30 %**

**Water Savings : 30 - 50%**



# Benefits of Green Buildings

## Intangible Benefits

*Enhanced air quality,*

*Excellent day lighting,*

*Health & wellbeing of the occupants,*

*Conservation of scarce national resources*

*Enhance marketability for the project.*



# Environmental Benefits

- *Protect biodiversity and ecosystems*
- *Improve air and water quality*
- *Reduce waste streams*
- *Conserve natural resources*



# Economic Benefits

- *Reduce operating costs*
- *Create, expand, and shape markets for green product and services*
- *Improve occupant productivity*



# Social Benefits

- *Enhance occupant comfort and health.*
- *Heighten aesthetic qualities.*
- *Minimize strain on local infrastructure.*
- *Improve overall quality of life.*



# **Conclusion**

- **Green Buildings are dynamic environments that respond to their occupants' changing needs and lifestyles.**
- **“greener building” can be achieved using intelligent technology and that this “greening” will provide a tangible and significant return on investment.**

# Green Buildings



# **Conclusion**

- **With the convergence of urbanization, globalization and rapidly changing and expanding economy, using these green building concepts will help the world as well as India in satisfying the shortage of valuable resources and also will prevent environmental degradation.**
- **Thus, Green building provides significant return on investment to contractors, architects and building owners.**







# References

- **Fundamentals of Town Planning : G.K. Hiraskar**
- **Internet Websites**
- <https://igbc.in/igbc/>
- <http://grihaindia.org/>
- <http://www.worldgbc.org/>
- <https://greenbuildingsindia.wordpress.com/>

***Your mind is a garden. your thoughts are the seeds. You can grow flowers or you can grow weeds – Thanks.***

