Sustainability Consultant to The International Code Council U.S.A., The World Bank Group, Dubai - Trakees EHS, Ministry of Finance of Bahrain

How has green building affected the design, construction & facilities management / operations decisions in India?
How has green building affected the design, construction & facilities management / operations decisions in India?

**Sustainability In Design**

Sun Carrier Omega Building, Bhopal

One of India’s first “Net-Zero Energy Building” & LEED Platinum Certified under New Construction

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**Sustainability In Design**

IDEC + DEC System
Sona MCA Block, Salem

Night Purge & Free Cooling
IBM, Bangalore

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Insulated Envelope & Shading
ITC Vilasa Resort, Chennai

Geothermal cooling
IG3 DRC Center, Bangalore
How has green building affected the design, construction & facilities management / operations decisions in India?

**Sustainability In Construction**

Zero Carbon Construction – Entire construction GHG emissions tracked as per ISO 14064 & offset thru renewable energy investments

Titan Corporate Office, Bangalore

**Sustainability In Operations & Maintenance**

First Building in India to upgrade from LEED NCv2.1 LEED Gold to LEED EB O&M LEED Platinum Rating
How has green building affected the design, construction & facilities management / operations decisions in India?

**Sustainability In Occupant Usage**

- Ongoing Staff Awareness & training,
- Continuous Staff engagement in green initiatives,
- Staff involvement with company’s sustainability activities

Cisco Systems Campus, Bangalore

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**Sustainability In Occupant Usage**

1st Corporate Developer in India to track ongoing Company GHG Emissions, & involve staff to reduce offset Carbon emissions

SARE Group, India
A BIGGER SHARE

The global construction market is expected to grow 67% by 2020

### 2010

- **China**: 15%
- **US**: 14%
- **Japan**: 9%
- **India**: 5%
- **France**: 4%
- **Rest of the globe**: 63%

### 2020 (Estimated)

- **China**: 21%
- **US**: 16%
- **India**: 7%
- **Japan**: 6%
- **Canada**: 3%
- **Rest of the globe**: 48%

*All figures in $bn. 
Source: ING

In 2010, the global construction market was valued at around $1.1 trillion. Mature markets outweight emerging markets.

In 2020, the global construction market is expected to reach over $2 trillion. Emerging markets outweight mature markets.