India Green Building Market Opportunity Outlook 2020

Description: India has a great tradition of building environment friendly homes throughout its history. Various renewable and natural items like bamboo, agricultural residues, clay etc. have traditionally been used in vast areas of India, particularly in rural areas. But the concept of modern green building having minimum impact on environment began to grow in late 1990's. Then the rating system for green buildings started in early 2000’s with the formation Green Rating for Integrated Habitat Assessment (GRIHA) by the TERI and MNRE and then Indian Green Building Council (IGBC). Since then green building movement in India gained tremendous impetus over the years. Now there are more than 4500 green building projects in India with about 4.17 Billion Square Feet built-up area which is only second after the USA in terms of built area as well as number of projects. But the current stock of green buildings in India is only 5% of the total buildings in India that shows the massive market potential of green buildings in India.

Green buildings are being considered as the modern day architectural marvels because of their potential to protect environment and transforming real estate market substantially. India's National Housing Bank (NHB) - India's state-owned housing financial institution has projected that India's real estate sector is expected to surpass US$ 150 Billion industry by 2020, building on initiatives such as smart city mission. Green buildings being a special segment of the real estate industry as whole and ongoing trends of promotion of sustainable development, a substantial party of the real estate market is going to be in green building sector. As per the industry estimates, for the new buildings, India's green building market is projected to be in the range of US$ 30 Billion to US$ 40 Billion. Almost three fourth of the buildings to be constructed in India by 2030 are yet to be built. As the awareness about green buildings is on the rise along with favorable policies, a major portion of these buildings will be green buildings.

The new high-rise residential, communities and mixed-use development are expected to be the top three sectors for green building growth in India in the coming years. Environment friendliness and reduced operating costs are already among the parameters real estate customers consider serious before investing. The promotion of green buildings – the aspect it largely lacked till three-four years ago, is going to have immense impact on the future green building market.

Growth in green building market in India is also likely to bring about enormous economic growth by creation of a new industrial sector. The notion of green building being a completely new in India, there are very few number of existing professionals in the sector. But as the market grows, there will be demand for architects, technicians, energy experts, environmentalists, consultants etc. having adequate knowledge of the sector. Some of the green building rating agency providers like IGBC or GRIHA has already started building professionals dedicated for green buildings. In next one decade or even less, the trend will enhance remarkably. As the worth of green buildings is being perceived by more sections of the society with the passage of time, the ultimate objective of sustainability i.e. economic development maintaining the environment looks easy to achieve.

“India Green Building Market Opportunity Outlook 2020” Report Highlights:

- India Green Building Market Overview
- Why India Needs Green Building
- India Green Building Market By Sector
- India Green Building Construction Materials Market
- India of Green Building Rating System
- Indian Government Policy on Green Building

Contents:

1. Overview of Green Building
2. India Green Building Market Overview
3. Why India Needs Green Building
   3.1 Environmental Benefits of Green Buildings
   3.2 Economic Benefits of Green Buildings
3.3 Social Benefits of Green Buildings

4. India Green Building Market By Sector

5. India Green Building Construction Materials Market
   5.1 Overview
   5.2 Market Size

6. India of Green Building Rating Systems
   6.1 India Green Building Council (IGBC)
   6.2 Green Rating For Integrated Habitat Assessment (GRIHA)
   6.3 BEE Star Rating For Commercial Building

7. India of Green Buildings Regulatory Bodies
   7.1 GRIHA Council
   7.2 India Green Building Council (IGBC)
   7.3 Bureau Of Energy Efficiency (BEE)
   7.4 Ministry of New and Renewable Energy (MNRE)
   7.5 The Ministry of Housing and Urban Poverty Alleviation
   7.6 Ministry of Environment and Forest
   7.7 State governments
   7.8 Local Governments
   7.9 Confederation of Real Estate Developers' Associations of India (CREDAI)

8. Indian Government Policy on Green Building
   8.1 Energy Conservation Building Code
   8.2 Energy Efficient Solar/ Green Buildings
   8.3 Mandatory GRIHA Rating for Government Buildings
   8.4 Smart Cities
   8.5 Integrated Energy Policy
   8.6 Local Government Environmental Norms for Buildings

9. India Green Building Market Favorable Parameters
   9.1 Rapid Urbanization & Economic Growth
   9.2 Largely Untapped Market
   9.3 Favorable Policies
   9.4 Growing Environmental Concerns & Promotion of Sustainability
   9.5 High Return-on-Investment & Shorter Payback Period

10. India Green Building Sector Challenges
    10.1 Improper Government Policies
    10.2 Higher Cost than Conventional Buildings
    10.3 Lack of Awareness & Proper Understanding
    10.4 Lack of Skilled Manpower & Technology

11. India Green Building Market Future Outlook

List of Figures:
Figure 1-1: Number of LEED Certified Green Buildings by Country, 2015
Figure 1-2: LEED Certified & Registered Green Building Projects in Countries by Floor Area, (Sq. Mt.), 2015
Figure 2-1: India - Number of Green Buildings Registered & Certified by IGBC & GRIHA, 2003, 2007, 2011 & 2015
Figure 2-2: India - Energy Consumption by Equipment in Residential Buildings (%)
Figure 2-3: India - Energy Consumption by Equipment in Commercial Buildings (%)
Figure 2-4: India - Number of Registered Projects for Green Building Rating
Figure 2-5: India - Registered Green Building Projects by Built-up Area (Million Sq. Ft.), 2016
Figure 3-1: India - Urban Population (Million), 1995 & 2015
Figure 4-1: India - Number of Green Buildings by Sector, 2016
Figure 4-2: India - Sector-wise Distribution of Green Building by Built-up Area (Million Sq. Ft.), 2016
Figure 4-3: India - Proportion of Total Number of Registered Green Buildings by Type (%), 2016
Figure 4-4: India - Proportion of Built-area of Registered Green Buildings by Type (%), 2016
Figure 9-1: India - Projected Urban Population (Million), 2030 & 2050
Figure 9-2: India - Green Building Footprint Projection by Floor Area (Billion Sq. Ft), 2016 & 2020
Figure 11-1: India - Projected Green Building Footprint by Built-up Area (Million Sq. Ft), FY’16 & FY’19
Figure 11-2: India - Total Building Built-up Area (Billion Sq. Ft.), 2015 & 2030

List of Tables:
Table 1-1: Green Building Rating System by Country
Table 5-1: India - Green Building Materials & Equipment Market, 2016* & 2020
Table 6-1: IGBC Green New Buildings Certification Levels
Table 6-2: IGBC Green Existing Buildings Certification Levels
Table 6-3: IGBC Green Homes Certification Levels
Table 6-4: IGBC Green School Certification Levels
Table 6-5: IGBC Green Factory Certification Levels
Table 6-6: IGBC Green Factory Certification Levels
Table 6-7: GRIHA Green Building Points & Corresponding rating
Table 6-8: GRIHA Rating Evaluation Criteria
Table 6-9: Office Buildings (Air-Conditioned) Energy Star Rating System by BEE
Table 6-10: Office Buildings (Non Air-Conditioned) Energy Star Rating System by BEE
Table 6-11: BPO Buildings Energy Star Rating System by BEE
Table 6-12: Shopping Mall Buildings Energy Star Rating System by BEE
Table 6-13: Hospital Buildings Energy Star Rating System by BEE

Ordering:
Order Online - http://www.researchandmarkets.com/reports/3920458/
Order by Fax - using the form below
Order by Post - print the order form below and send to

Research and Markets,
Guinness Centre,
Taylors Lane,
Dublin 8,
Ireland.
Fax Order Form
To place an order via fax simply print this form, fill in the information below and fax the completed form to 646-607-1907 (from USA) or +353-1-481-1716 (from Rest of World). If you have any questions please visit http://www.researchandmarkets.com/contact/

Order Information
Please verify that the product information is correct and select the format(s) you require.

Product Name: India Green Building Market Opportunity Outlook 2020
Web Address: http://www.researchandmarkets.com/reports/3920458/
Office Code: SC

Product Formats
Please select the product formats and quantity you require:

<table>
<thead>
<tr>
<th>Format Type</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electronic (PDF) - Single User</td>
<td></td>
</tr>
<tr>
<td>Hard Copy</td>
<td></td>
</tr>
<tr>
<td>CD-ROM</td>
<td></td>
</tr>
<tr>
<td>Electronic (PDF) - Enterprisewide</td>
<td></td>
</tr>
</tbody>
</table>

- Shipping/Handling is only charged once per order.
- The price quoted above is only valid for 30 days. Please submit your order within that time frame to avail of this price as all prices are subject to change.

Contact Information
Please enter all the information below in BLOCK CAPITALS

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Title</td>
<td>Mr ☐ Mrs ☐ Dr ☐ Miss ☐ Ms ☐ Prof ☐</td>
</tr>
<tr>
<td>First Name</td>
<td></td>
</tr>
<tr>
<td>Last Name</td>
<td></td>
</tr>
<tr>
<td>Email Address *</td>
<td></td>
</tr>
<tr>
<td>Job Title</td>
<td></td>
</tr>
<tr>
<td>Organisation</td>
<td></td>
</tr>
<tr>
<td>Address</td>
<td></td>
</tr>
<tr>
<td>City</td>
<td></td>
</tr>
<tr>
<td>Postal / Zip Code</td>
<td></td>
</tr>
<tr>
<td>Country</td>
<td></td>
</tr>
<tr>
<td>Phone Number</td>
<td></td>
</tr>
<tr>
<td>Fax Number</td>
<td></td>
</tr>
</tbody>
</table>

* Please refrain from using free email accounts when ordering (e.g. Yahoo, Hotmail, AOL)
Payment Information

Please indicate the payment method you would like to use by selecting the appropriate box.

☐ Pay by credit card: You will receive an email with a link to a secure webpage to enter your credit card details.

☐ Pay by check: Please post the check, accompanied by this form, to:
Research and Markets,
Guinness Center,
Taylors Lane,
Dublin 8,
Ireland.

☐ Pay by wire transfer: Please transfer funds to:
Account number 833 130 83
Sort code 98-53-30
Swift code ULSBIE2D
IBAN number IE78ULSB98533083313083
Bank Address Ulster Bank,
27-35 Main Street,
Blackrock,
Co. Dublin,
Ireland.

If you have a Marketing Code please enter it below:

Marketing Code: 

Please note that by ordering from Research and Markets you are agreeing to our Terms and Conditions at http://www.researchandmarkets.com/info/terms.asp