# RECONNECT

# **The GRIHA Summit'16**

17th February 2016 IHC, New Delhi

### **Green Rating for Integrated Habitat Assessment**

### Tool to facilitate design, construction, operation of a green building, and in turn ....measure "greenness" of a building in India





### What gets measured gets managed

# Key Highlights of GRIHA

# **Timeline for GRIHA ratings**



### Impact





- Passive architectural design
- Daylight integration
- Shaded windows
- Roof insulation
- RE integration
- Solar water heaters
- Low flow fixtures
- 30% 50% reduction in energy consumption compared to GRIHA benchmarks
- 40 65 % reduction in building water consumption compared to GRIHA base case
- At no/negligible incremental cost

# **Current Impact of GRIHA rated projects (30)**

### Impact of the GRIHA programme

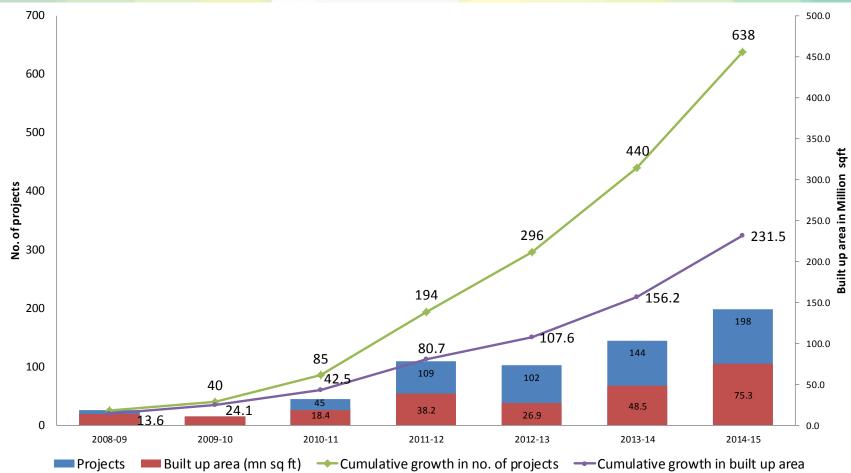
- Resource use optimization
- Social transformation
- Market transformation
- Green jobs
- Synergies across policies and programmes to implement objectives
- Enhancing capacities of stakeholders

Energy Savings = 74,000 MWh/annum

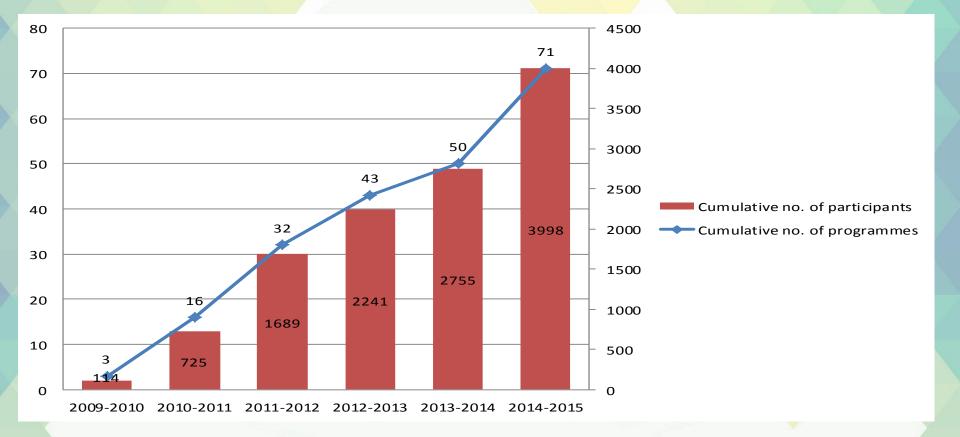
Renewable Energy installed = 14.5 MWp

CO<sub>2</sub> emissions offset = 78,516 tCO<sub>2</sub> /annum

### **Growth trends of GRIHA rating system**



### **Trends in training programme**



### **Evaluators and trainers**

### **TOTAL Evaluators & Trainers**

#### **Total number of Evaluators - 560**

#### **Total number of trainers - 420**

### Engagement with Evaluators & Trainers

**Engagement with Evaluators – 123** 

Total number of projects rated - 45

### **Associate Members**































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# **GRIHA Product Catalog -**



# **GRIHA Adoption till 2015**

GRIHA has been adopted for implementation of sustainability in the built environment by the following organizations, cities and States:

Cities	States	Organizations
Pune	Delhi	CPWD
Pimpri Chinchwad	Punjab	NBCC
Noida	Goa	OTDC
Greater Noida	Sikkim	Some PSUs (GAIL, BPCL)
Delhi	Rajasthan	
Chandigarh	Assam	
	Kerala	
	West Bengal	

### **GRIHA Projects' Update & Linked Incentives**



### **New activities and initiatives**

- Scaling up current activities and servicing of registered projects.
- Strengthening relationship with Government at Centre and States
- Making online content more user friendly
- Engagement with end user to create awareness
- Upgrading and operationalizing GRIHA rating to version 2015
- Charitable activities of GRIHA Council and taking up CSR activities of other organizations

### **Contribution to Ongoing Programmes**

- Smart Cities
- Atal Mission for Rejuvenation and Urban Transformation (AMRUT)
- Swachh Bharat
- 82 GW installed capacity of RE by 2022
- Sansad Adarsh Gram Yojana
- Housing for All
- Incorporates social aspects of sustainability

Pune launched 'GRIHA' as part of 'Smarter City' initiative

### Challenges

### Quality –

- Reviews are not of acceptable quality, revising all comments is time consuming.
- Review comments are not consistent.

#### Delay -

- Since there are multiple reviews the clients delay in providing review responses, often times they do not furnish any additional information.
- There is delay in receiving NDA from the evaluators.

### **Proposed changes**

Improving Facilitation - Change of name from Trainers to 'Certified Professionals'

#### Change in steps process flow of GRIHA

Check the possibility of online NDA as soon as the evaluator logs in to his/her review account instead of paper based signatures.

**Create Discussion Forums** 

