Mainstreaming Energy Efficient Facades – Challenges & Solutions

CHALLENGES IN FAÇADE INDUSTRY

DESIGN
• Architectural impact
• Functional
• Spaciousness
• Energy efficient
• Integrating green features

RENOVATION
• Renovating old buildings – techniques & challenges
• Maintenance and cleaning
• Replacement Techniques
• Market availability

KNOWLEDGE & SKILL
• Future
• Technology transfer to Ground Zero
• Technological changes
• Resource availability
• Experience and expertise
**DESIGN**

- **Architectural intent**
  - Highly accurate visual rendering
  - What you see is what you get!

- **Daylight design of façade**
  - Daylight reflectors & proper glazing – optimum daylight

- **Building envelope**
  - Reduce no. of glass panes = Increase panel size
  - Savings on Structural member
  - 4 to 5% more usable area
  - Reduce construction wastage by 20%

- **Energy impact analysis**
  - On site measurements
  - Test bed study
  - Comfort survey

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**RETROFIT AND MAINTENANCE**

- **Renovation**
  - On site renovation
  - Energy & comfort
  - With occupancy as Such
  - Savings on time & cost

- **Comfort**
  - Improved comfort by products with lower VOC
  - Reduced energy demand by Selectivity

- **Interactive**
  - Control at your finger
  - Design your Day
  - Feel Comfortable the way you want

- **Façade maintenance**
  - Automated cleaning option - Robotics
  - Scheduled plan – Automated system in place

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Exposure - Skill development program for various levels
Rating system - Knowledge forum - Session with experts - Connecting with technology - Upgradation

Knowledge & Skill

Knowledge
- e-learning
- GlassCurriculum
- Glass Explore 2015

Skill
- Webinars
- Transparency
- G-Workshop
- SkillGurukul

Saint-Gobain
Glass, an indisputable building material for the present and the future.....