



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

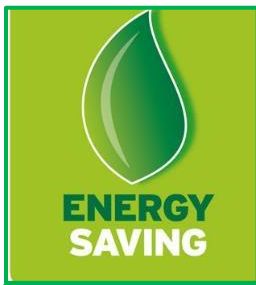


RETROFIT AND MAINTENANCE



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



KNOWLEDGE & SKILL



KNOWLEDGE



SKILL





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

