

Category
Spatial Design

<https://www.youtube.com/watch?v=MDCDRlllzsc>

Target Audience

Real Estate Developers

Context

What is the problem statement you've identified?

- Buildings in India account for a considerable amount of energy consumption (air conditioning and lighting).
- Commercial & resident buildings are exposed to the sunlight for 10-12 hours/day on an average which increase the usage of air conditioning within these buildings.
- The same can be reduced by protecting the building from direct sunlight, hence decreasing the usage of ACs, saving power.

Design Concept

Describe The Design Idea

- A building designed with dynamic aluminium-glass facades that expand and contracts to regulate the amount of sunlight permitted to the interior.
- The facades are foldable and is automated.

How is the concept smarter by design?

- The building has facades designed such that they adapt individually as per the changing weather conditions.
- This responsive design minimises the necessity of air conditioning by maintaining a constantly moving shield against external heat.