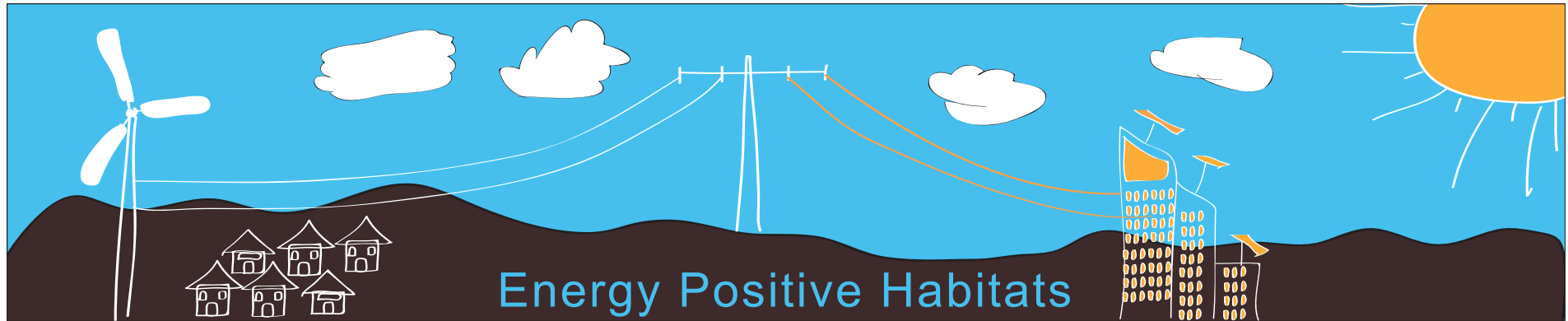




Auroville  
**Green Practices**

A three-day workshop  
30 Aug to 1 Sept, 2012  
Auroville (near Pondicherry)



## Summary Presentation: Energy Efficient Design

Tanmay Tathaghat (Edsglobal)



***ENERGY EFFICIENT BUILDING DESIGN***

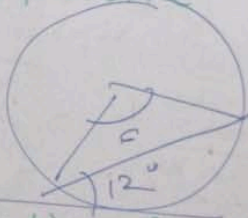


## INTRO n DISCUSSION



INTRO

## INTRO n DISCUSSION

- Cow Shelter
  - Textile manuf.
  - Corporate Building
  - Sustainable technologies
  - Reviving traditional construction
  - Govt. Housing / Tourism / cost
  - Design Practices
  - Affordable / Sustainable?
  - Vastu
  - Radon / VOC
  - Technical / Practical
  - Operation / Maintenance
  - 34° C barrier
  - Examples / Case Studies  
Anuvilla
- 
- Solutions for
- Individual / Small Residential
  - Parameters for Sustainable



Technical / Process  
• Operation / Maintenance  
• 3-4 C. better  
• Sustainable / Eco-friendly  
• Low cost  
• Induced / Small  
• Sustainable  
• Promotes for habitat



## **ASPECTS RELATED TO BUILDING DESIGN**

**COMFORT, MATERIALS AND TECHNOLOGY**

## **MICRO CLIMATE ANALYSIS**

**SOLAR, WIND, WEATHER**

## **SITE ANALYSIS**

**SHADOW/INSOLATION  
WIND**

## **BUILDING LEVEL ANALYSIS**

**ORIENTATION, MUTUAL SHADING  
SHADING DESIGN  
DAY LIGHTING**

## **SIMULATION TOOLS FOR DESIGN**

Indoor outdoor temperatures, Understanding day lighting

## **DESIGN PARAMETERS & COOLING LOADS**

## **SHADING DEVICES**

































