SMALLER FOOTPRINTS

FROM MEGAWATTS TO KILOWATTS



HOUSEHOLDS

are responsible for

70% OF PRIMARY ENERGY CONSUMPTION IN INDIA

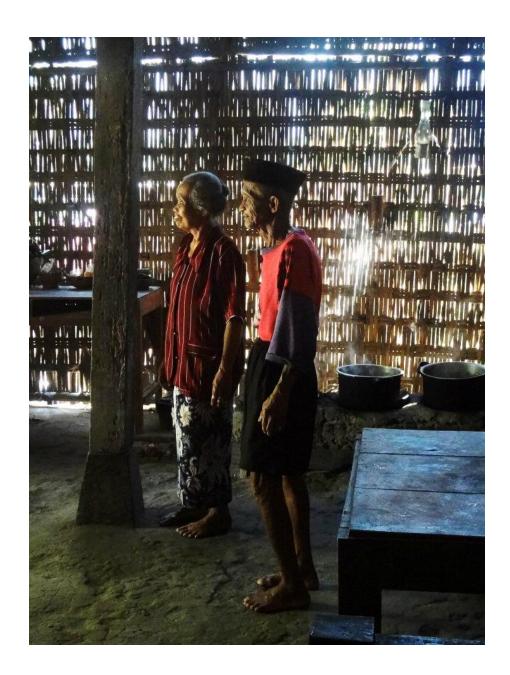


ZERO TO KILOWATTS





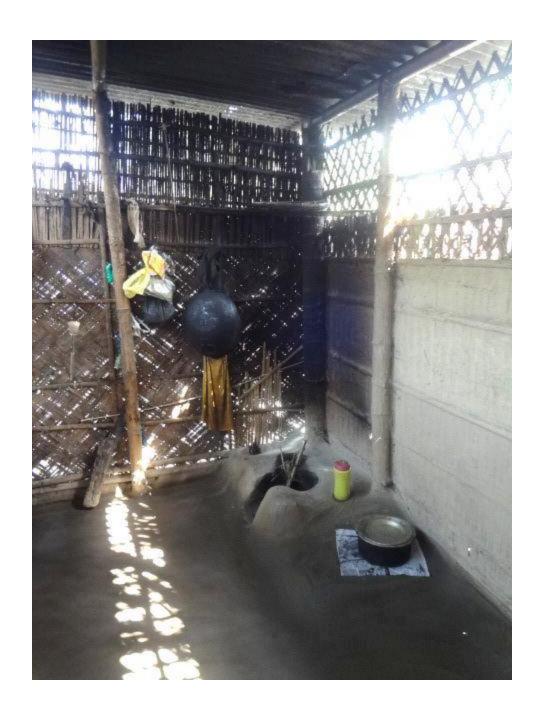


















WORLDWIDE, BUILDINGS ACCOUNT FOR ...

17% fresh water withdrawals

25% wood harvest

33% CO2 emissions

40% material & energy use





Indian Housing Census of 2007 – 80% of construction is still Ground+1 homes or related buildings..



COMPARISON OF EMBODIED **ENERGY IN WALLS**

Wall made up of concrete blocks plastered and painted

Wall made up Stabilized Mud Blocks

100 sft. of

100 sft.of

Wall---

1312.5 MJ

Wall---

1237.5 MJ

Plaster both sides--- 864.0 MJ

Paint---

648.0 MJ

Total---

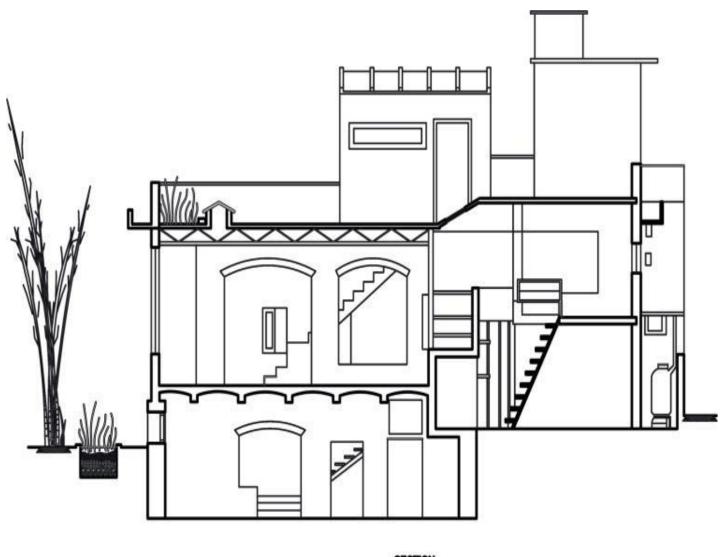
2824.5 MJ

Total--- 1237.5 MJ



KILOWATTS TO ZERO





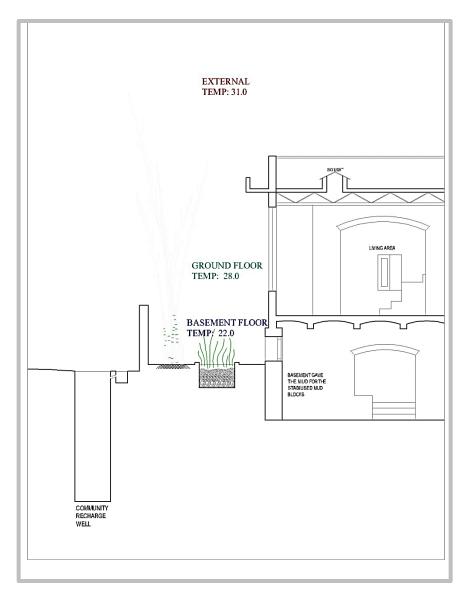


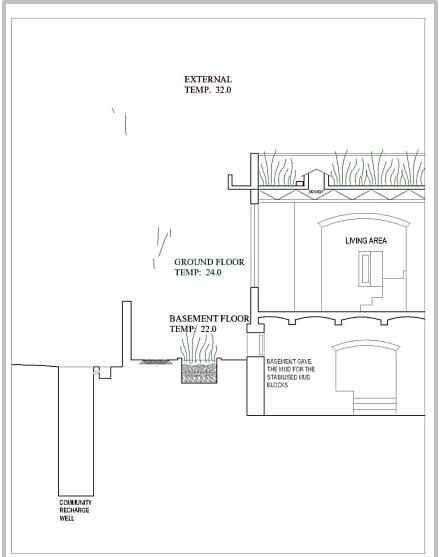














Bangalore

A roof story





Un-designeda roof is a sterile space and a heat sink





A smart roof

Receives maximum sunlight and heat

All the rain

Lots of wind

A whole bunch of birds, butterflies and bees

Can solve Bangalore's water, wastewater, energy, sewage, food and bio-diversity problem

















Uses the Sun













Turns sewage to a nutrient through Ecosan











What can a smart roof do?

Provide

Food security... and grow rice, banana

Water security .. And treat waste water

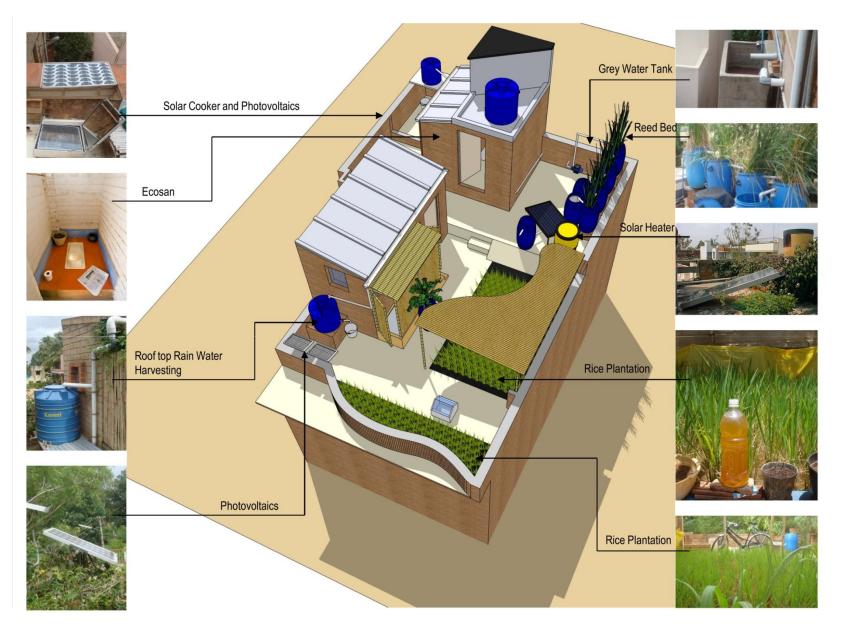
Energy security... and keep the house cool

Ecological security... and help save the sparrow

50% of built Bangalore are roofs.

What do we do about them? Heat sinks or Ecological spaces-The choice is ours.

















GREED CANNOT BE GREEN

