

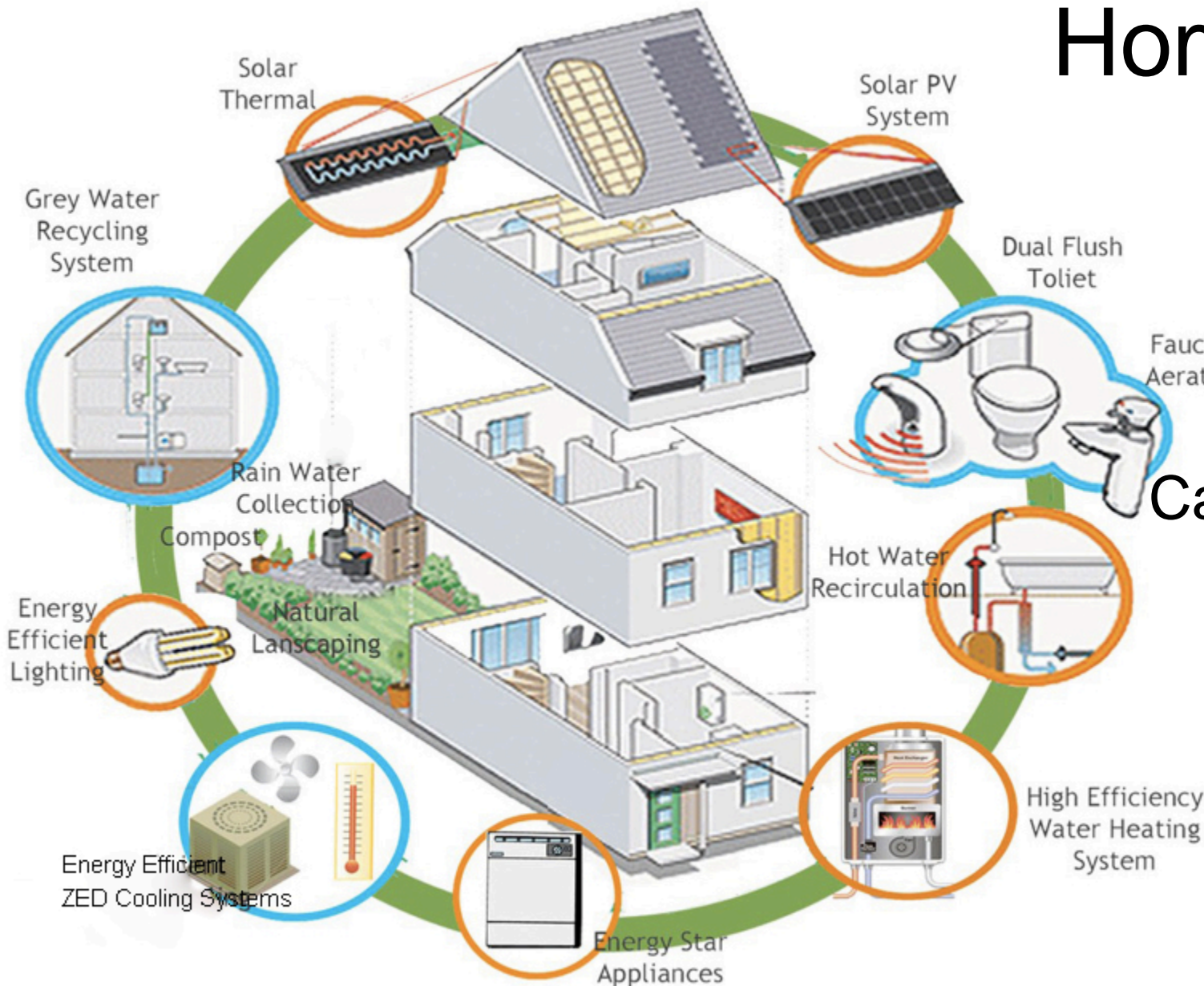
ZED HOMES

Carbon - Neutral Buildings

Homes with...

**Net
Zero**

Carbon Emissions
Energy
Water
Waste

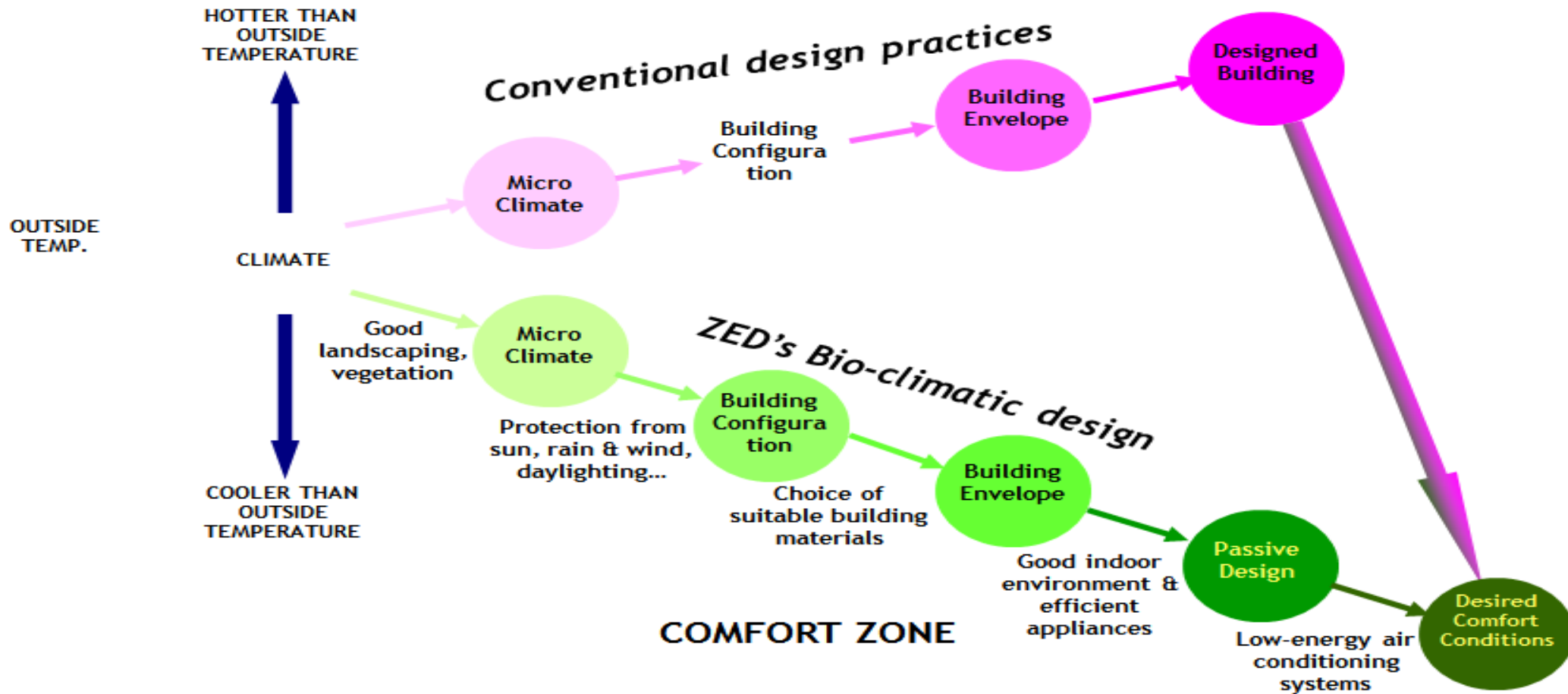


ZED EARTH

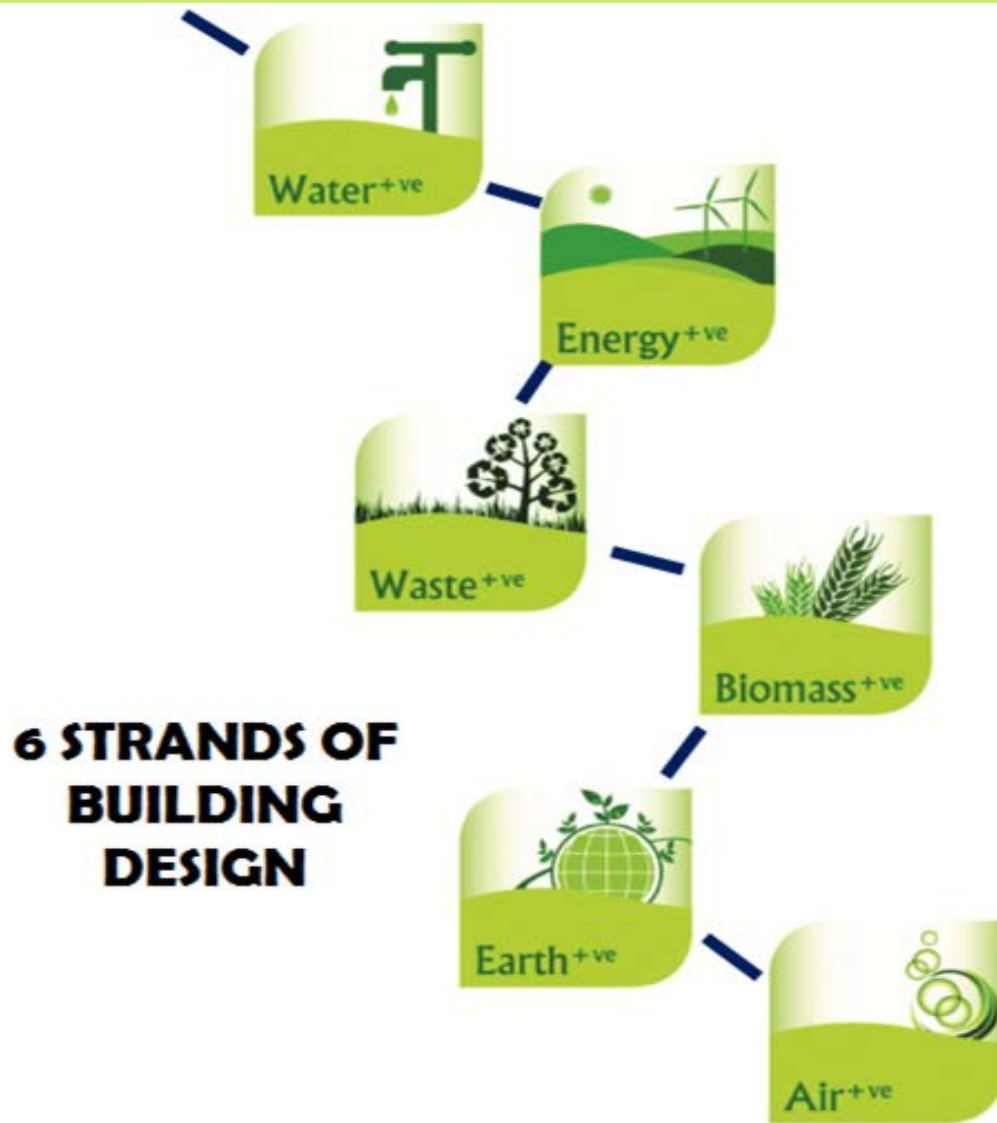
... TOWARDS ZERO ENERGY DEVELOPMENT...



ZED's bioclimatic Design



Green Strategies



DRIVERS OF SUSTAINABILITY



STRATEGY

Reliability

Economy

Efficiency

Function

Finishes

Cost

Aesthetic

Function

Ease of Execution

Environmental Health

Time

CONSTRUCTION MANAGEMENT



CARBON REDUCTION



ZedEarth: **140** Stand alone Homes

The way ZedEarth is Built: 3875 tons CO₂

Operating CO₂ Reduction : 1400 tons CO₂/annum



WE USE

Bricks, clay blocks, clay tiles,
Ceramic tiles

Incandescent lamps
waste exported

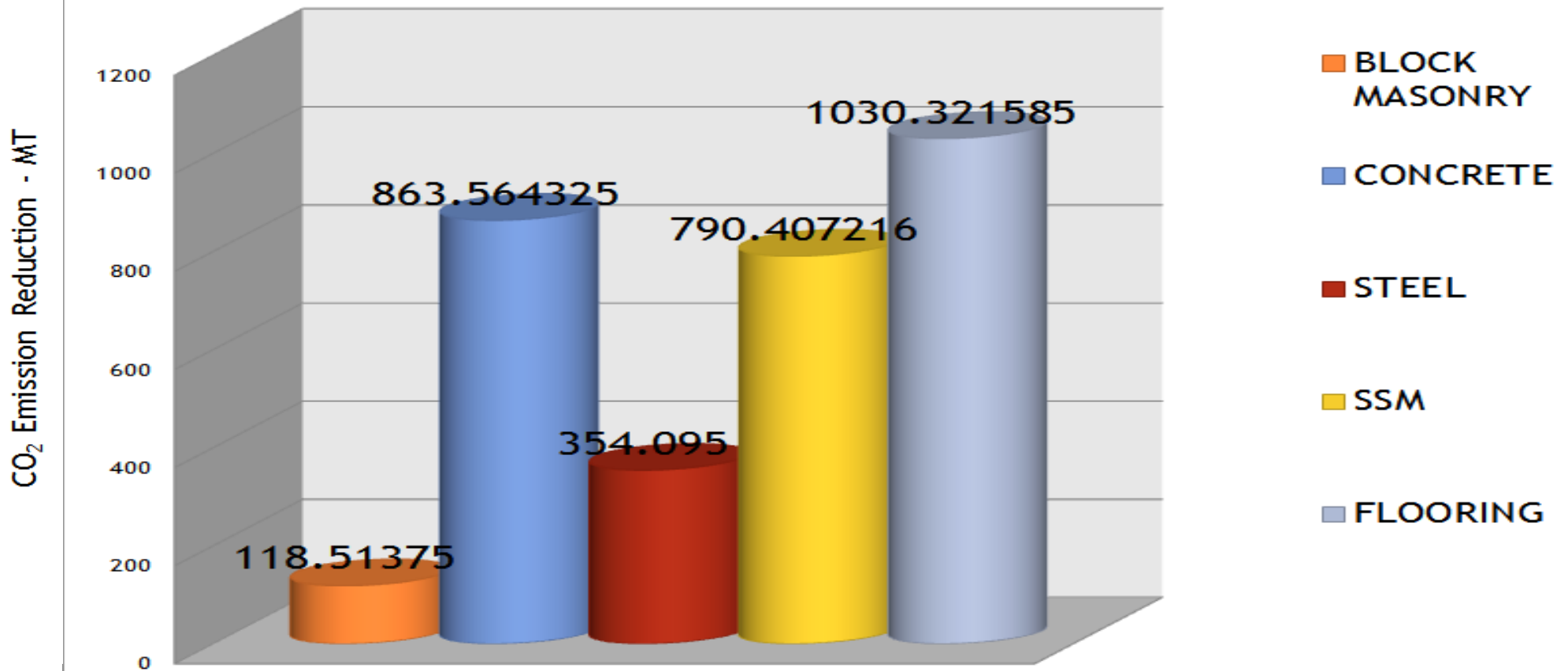
No

Forest timber

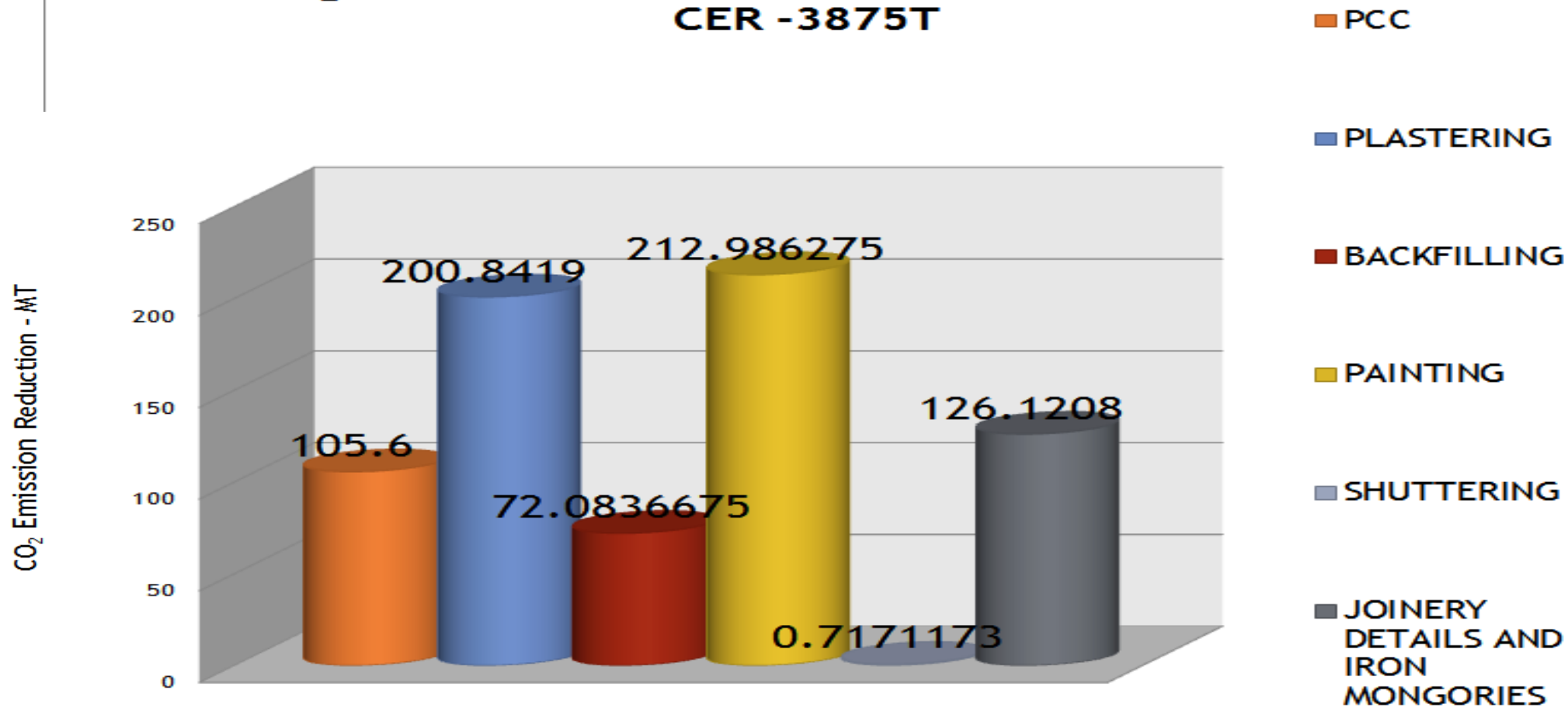
Municipal water imported

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CO₂ Emission Reduction in ZedEarth - Embodied CER - 3875T



CO₂ Emission Reduction in ZedEarth - Embodied CER -3875T





WE USE

LEDs, solar based or
hybrids for external lights

Only

Composites

Shallow aquifers



WE USE

Geysers

Synthetic fertilizers or pesticides

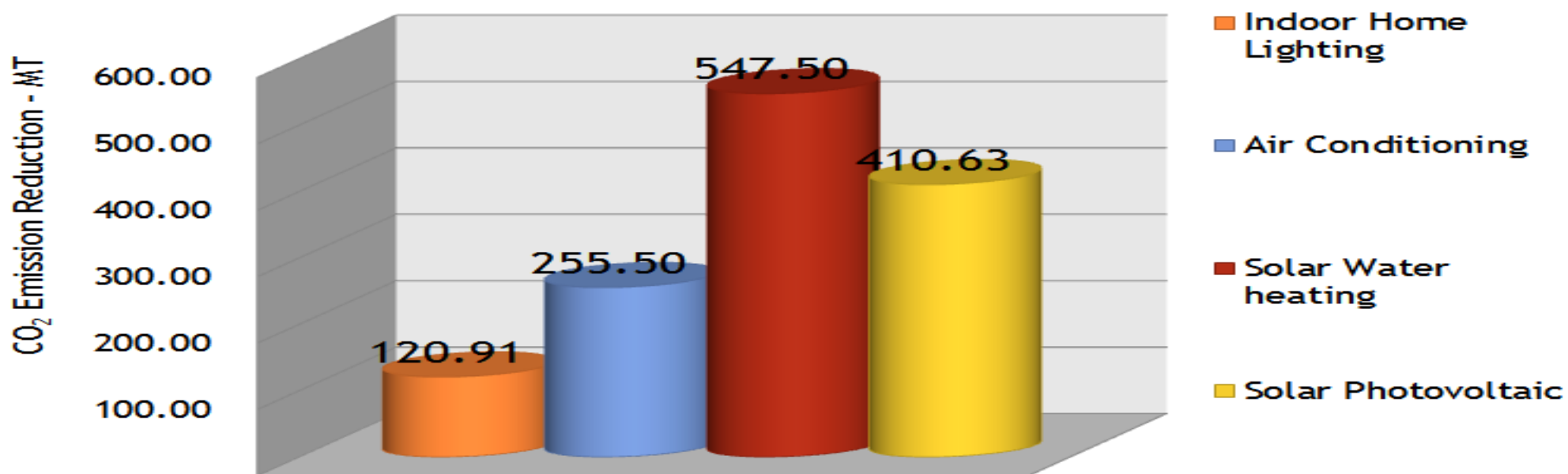
Chemicals for treating
water

No

HCFC CFC or ODS

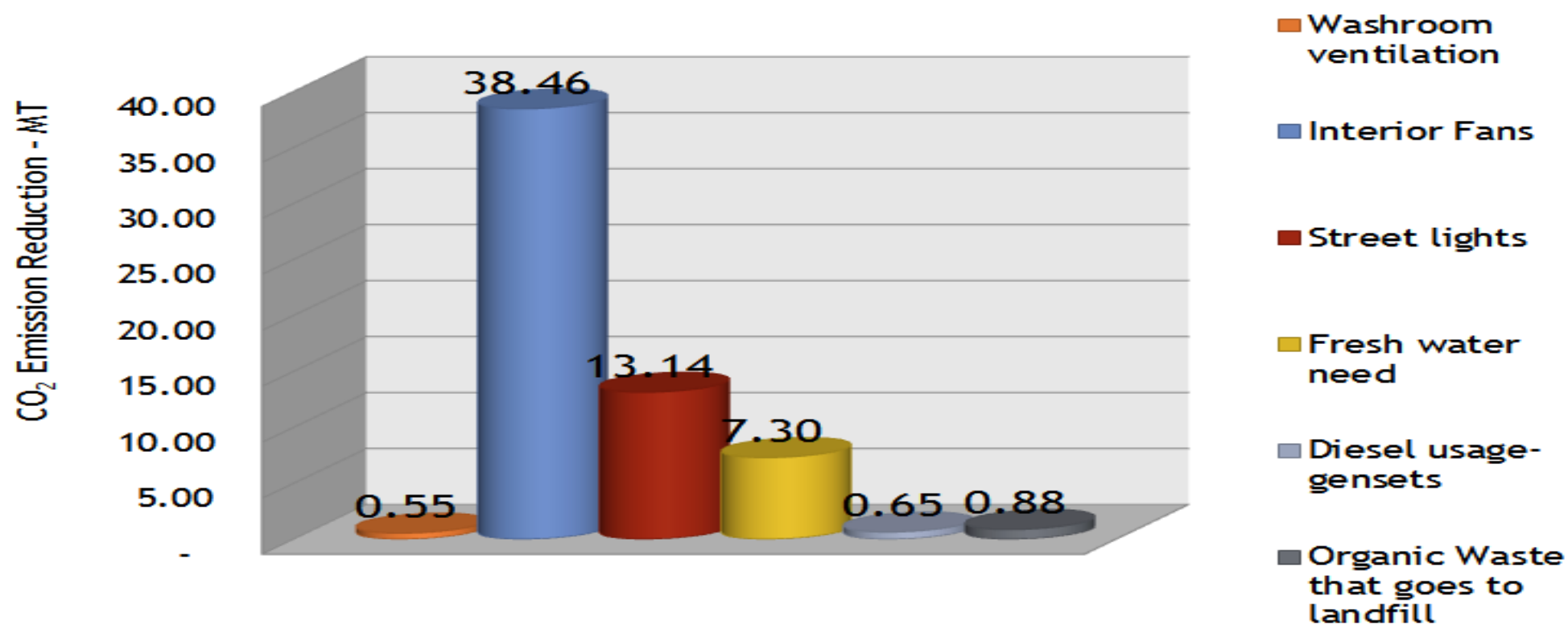
toxic paints

CO₂ Emission Reduction in ZedEarth - Operations CER - 1400MT



*Note: The benchmark for lighting is raised to CFL in 2010 (Incandescent in 2000)

CO₂ Emission Reduction in ZedEarth Operations CER - 1400MT



Concealed SERVICES Masonry



Structure

Closed bottom and channel permit
Construction of continuous
Reinforced concrete bond, 200mm
Or 400mm deep, around entire
Bldng.

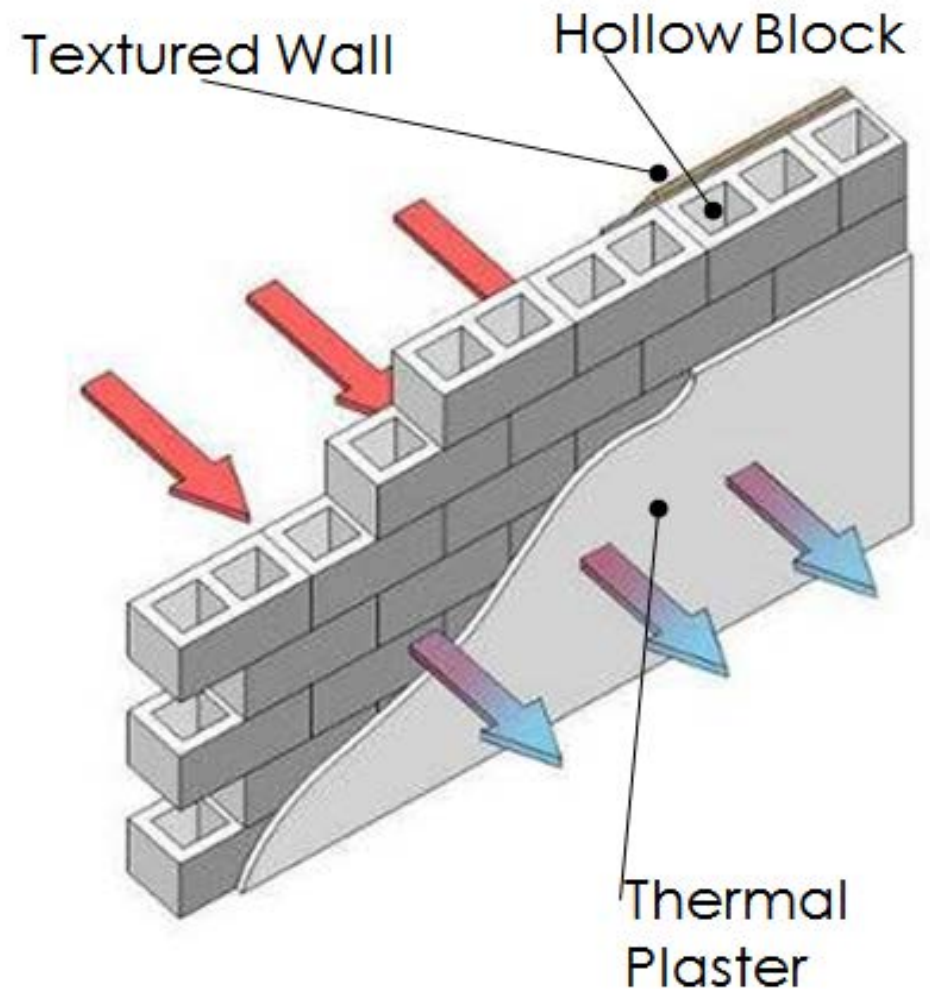
Bond beams created thus can also
Be united with vertical column for
Exceptionally strong walls

Saves dramatically on Plinth
Foundation resource use and cost



External Walls & shading

Homes are built with **specialty engineered masonry blocks** for walls. These also include designer blocks. These are energy-efficient, and are part of microclimate architecture ...





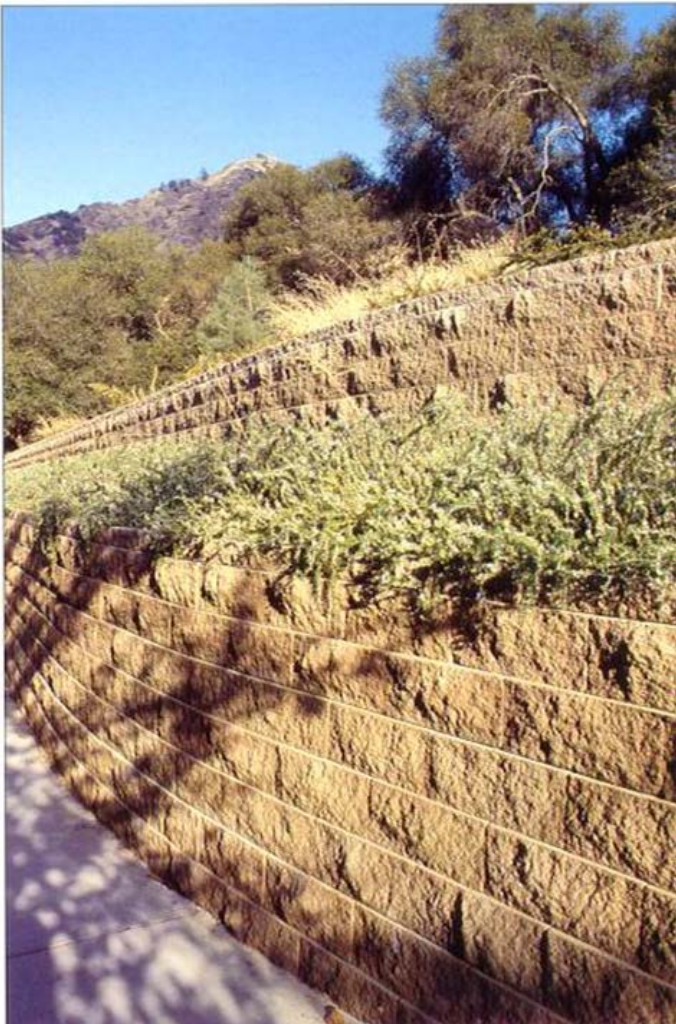
BUILDFAST

At ZED, we have **avoided use of cement mortar**. A **special pre-polymerised bonding adhesive** is used that is free of sand and cement. It uses no construction water, and needs no curing.

Savings	Quantity
Savings in cement bags for 12,100 sqm wall area	2420 bags (121,000 kg)
Savings in sand used for the same area	485 cum
Savings in water used	620 liters/sqm (Total : 7500 KL)
CO ₂ emissions savings	105 tons

TIME AND COST SAVING

- Engineered Masonry blocks save up to 50% on time in erection of filler block walls in framed structures.
- Offers better quality block work, at reduced labor cost, and facilitates better supervision therefore.
- These EM blocks are mason-friendly. Weigh a mere 17 kg against the conventional solid concrete block's 37 kg.
- A typical 100 K Sq feet building claims 100,000 blocks. The 20 kg reduction per block means 2 million kg reduction... Or 2000 tons of Carbon emission reduced.









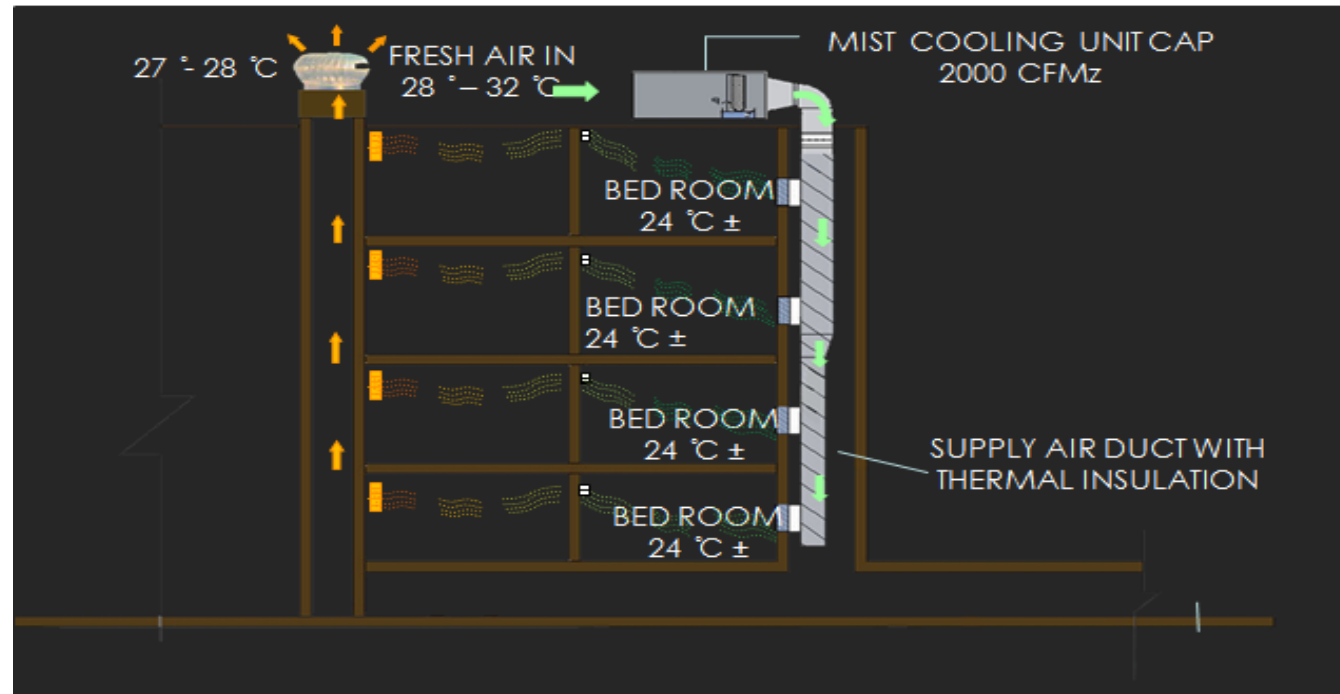


- **ACs are to be used only when you need it. And so these homes at BCIL Zed Earth have been provided with 36 Watt low energy ceiling fans that reduce power consumption by a chunky 25%. Washrooms offer energy-efficient ventilators.**





- **Energy-efficient air-conditioning that is innovative, easy-to-run, and saves 50 per cent on monthly energy bills.**





The close-up view of the north-east corner. The columns (thirty six in total) not only support the roof but also act as ornamental architectural elements.



The view from west side, taken in twilight. The reflection of the building, seen in the swimming pool, creates a surreal ambience.



We help you:

**grow your own water
harness your own energy
grow your own food**

**... at no extra capital cost
... at no extra selling price
... at a saving of 30% for end-user**

**ZED. Not end of the Alphabet.
The beginning of a new language.**

Thank you