The Energy Line

Speakers:

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Beer-Sheva

Tamarisk tree in memory of Abraham, who received his guests in the shade of the tamarisk tree.

Tamarisk tree painted brick, symbolize the building and development of the city.

12 Columns symbolizing the tribes of Israel ingathering of the exiles in the city.

Tower Wood holding hands icon - the idea of merging the exiles.

K”KL street

Pedestrians area

Shops

Looking for shading

Fontana

Cultural Mapping

Roof Gardens

Energy line concept

Shading

Solar energy, photo-voltaic cells

Reinterpretation of the traditional Arches

Energy line concept

Markets furniture

Continue the buildings line

Energy line that goes through the old city to the new city and back

The Water Cycle

1. Collecting rainwater

Every year, the rainwater reaches almost 440 000 m^3

A rainwater storage tank for each block of 60x60 m^2 is dimensioned to contain 200 m^3

The collected rainwater is used to water grass and trees in the street, and can also provide water for the toilets.

The Water Cycle

2. Collecting grey water

Grey water is componed of the used tapwater, shower water and water from the washing machine

We can collect, filter and then sterilize greywater so that it will be renew

Street Uses Of Water

3. Collecting dew water

WatAir, invented by two architects, Joseph Cory and Eyal Malka, from the Technion of Haifa

One 30 m² unit can extract a minimum of 48 liters of fresh water from the air each day

The Water Cycle

4. Using the collected water

To water grass and trees

To refresh pedestrians

Street Temperature Analasysis

Shadows check

Waste from the street

KKL St GARBAGE

Vegetables → Compost

Plastic → Plastic

Paper, cardboard → Paper, cardboard

Oil Energy

Recycling oil, or preferring bio-fuel to fossil fuel

Although using bio-fuel releases toxic gas, it is less polluting than using fossil fuel and it appears that bio-fuel may be easier and cheaper to produce.

Today, bio-fuel can be produced from oil firstly used to cook food. Instead of throwing away the cooked oil, and contribute to more pollution, an idea is born to re-use that oil and process it into bio-fuel. This way appears to be a greener way than the traditional one, creating bio-fuel from kitchen waste, cooked oil.

Human as an Energy Producer

Children playgrounds

Outdoor Gyms

Low Voltage (12V)

Energy Collector – The Battery

PANDA