Technology Used

In general, solar energy is used in the design. We suggest solar milar panels which is located around the building. During the day, the panels receive and save the energy, by the night the panels will be as an artwork.

The shape of our design is like a cone so the air in 2 the upper part of the volum has become heat and move to the top so the natural vent will happen. By moving the air to the upstream Savonius, Vertical Wind Turbine will be turned.

Savonius wind turbines are a type of vertical-axis wind turbine (VAWT), used for converting the force of the wind into torque on a rotating shaft. The turbine consists of a number of airfoils usually but not always vertically mounted on a rotating shaft or framework, either ground stationed or tethered in airborne systems.

Vertical axis wind turbines are advocated as being capable of catching the wind from all directions, and do not need yaw mechanisms, rudders or downwind coning. Their electrical generators can be positioned close to the ground, and hence easily accessible.

Another advantage of VAWTs is that they can be located in closer proximity to each other than can HAWTs. (Ferry & Monsan)

The new technology proposed in the design is the 3 production of electric flooring. Electric will be produced when people crossing on that floor. Like all cutting-edge technologies, kinetic tiles are relatively expensive. Today, they cost £10 per square foot which means that installing the tiles in the coverage kitchen would come close to £66,000.

Kinetic tiles also currently have a lifespan of just five years, making it difficult to recoup the cost. Even if you are repaying Trafford Square or the O2 Arena before a UK concert, you wouldn't come close to breaking even for the time being.

PRODUCT SPECIFICATIONS

Dimensions: 500mm each edge
Power rating: 5 Watts continuous power from footsteps
Voltages: 45V ~ Range 12V - 46V
Materials: Steel, recycled Aluminium, Composite
Minimum order sizes: 24m2 array
Certification: BSEN 131 Complaint, CE marked
Contact: info@www.pavegen.com/product