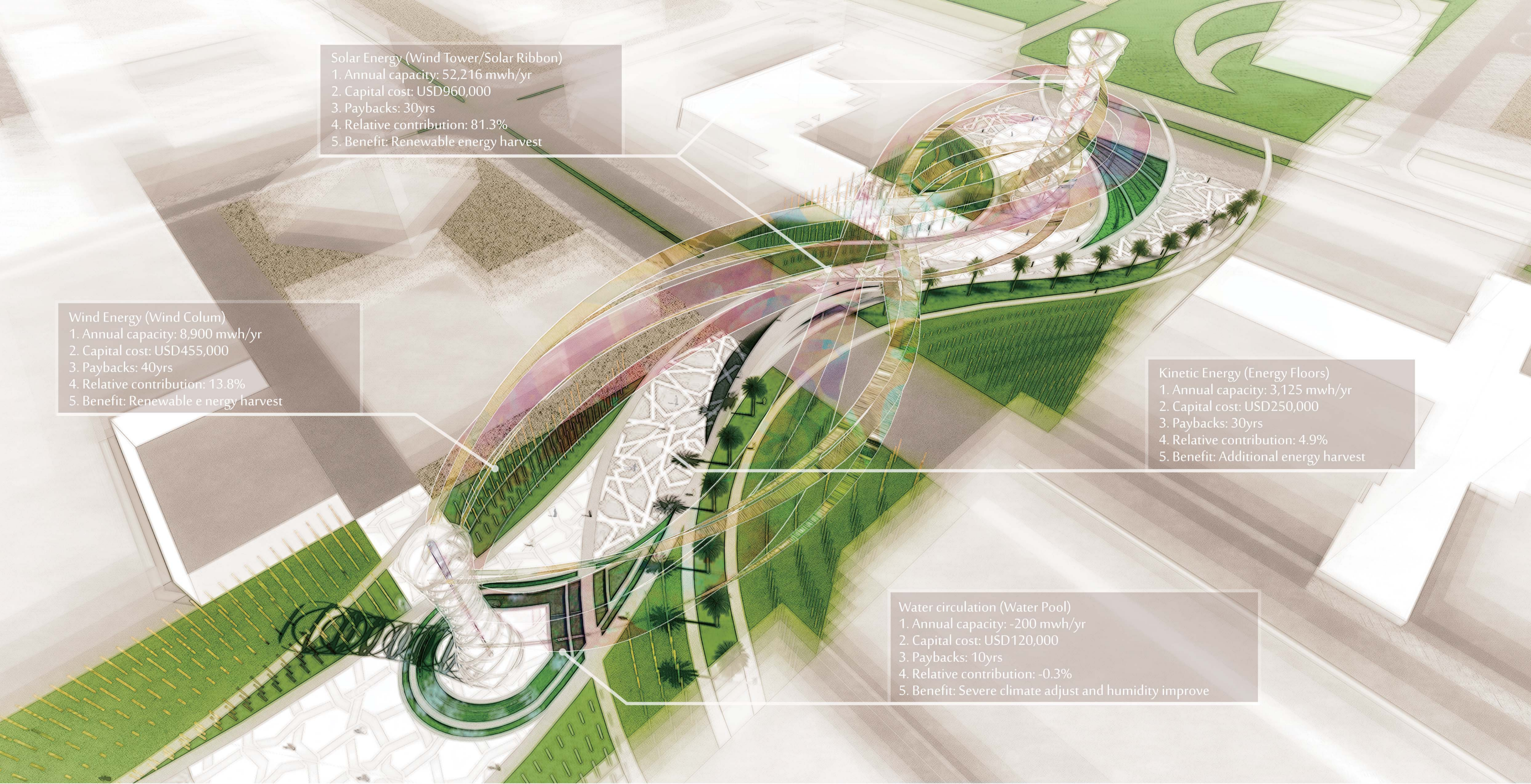


Solar Energy (Wind Tower/Solar Ribbon)
 1. Annual capacity: 52,216 mwh/yr
 2. Capital cost: USD960,000
 3. Paybacks: 30yrs
 4. Relative contribution: 81.3%
 5. Benefit: Renewable energy harvest

Wind Energy (Wind Colum)
 1. Annual capacity: 8,900 mwh/yr
 2. Capital cost: USD455,000
 3. Paybacks: 40yrs
 4. Relative contribution: 13.8%
 5. Benefit: Renewable energy harvest

Kinetic Energy (Energy Floors)
 1. Annual capacity: 3,125 mwh/yr
 2. Capital cost: USD250,000
 3. Paybacks: 30yrs
 4. Relative contribution: 4.9%
 5. Benefit: Additional energy harvest

Water circulation (Water Pool)
 1. Annual capacity: -200 mwh/yr
 2. Capital cost: USD120,000
 3. Paybacks: 10yrs
 4. Relative contribution: -0.3%
 5. Benefit: Severe climate adjust and humidity improve



- ◆ **Solar Energy (Wind Tower/Solar Ribbon)**
 We adopt technology from DSSC semi-transparent solar panels. DSSC production is more cost-effective, flexible and consumes less power, compared to silicon-based solar panels.
- ◆ **Wind Energy (Wind Colum)**
 We allocate two types of wind energy device on site: wind column and wind tower. As the conventional wind blades post a threat to wildlife, we choose bladeless wind technology: PZT wind columns. Furtherly, we follow the wind ventilation principle and place our two wind columns along the wind direction on site to reach the best efficiency, reducing temperature.

- ◆ **Kinetic Energy (Energy Floors)**
 As human body contains enormous quantities of energy, we installed energy floor to harvest human kinetic energy and convert into electricity. Moreover, we can increase entertainment while people reacting to the energy floor as a visible energy conversion, both entertaining and educating.
- ◆ **Water Circulation (Water Pool)**
 Extending the TSE principle from Plan Abu Dhabi 2030, we recollect the gray water from livelihood and reuse them as non-portable water on site. Not only diminish the water shortage, we add water recreational facility to improve the activity on site.

