

# Desert Cloud

ABU Dhabi was built in 1761, and the original residents mainly lived on collecting pearls. It was not until the 1960s that the massive discovery and exploitation of oil brought about earth-shaking changes in Abu Dhabi, and it gradually developed into the city of "Pearl in the Desert".

Inspired by "Pearl", the design uses the sphere as the basic unit, fully adapting to nature, and maximizing the use of local solar and wind energy through different modes of day and night.

The form of "cloud and rain" composed of lightweight spheres and light pipes symbolizes a green livable future, and a changeable iconic landscape.

The humps covered by green vegetation on the ground symbolize the dunes and shells, and the generators are hidden underneath, which minimizes damage to the land and the environment while providing a place for residents and tourists.

**Annual power generation:**  
4018, 650kWh.

**Installation cost per watt:**  
about \$4.

**Technology:**  
Thin film photovoltaics; wind-driven generator

**Bill of materials:**  
Reinforced PET film, Steel wire, Steel, Thin foil of black PET, Planting soil, Thin film photovoltaics, Wind-driven generator.



SAND DUNE



CLOUDS



PEARL

