

Vertical Axis Wind Turbine
28.032MWh

Windbelt
7.1424MWh

Thin-Film Solar Cells
22.2 MWh

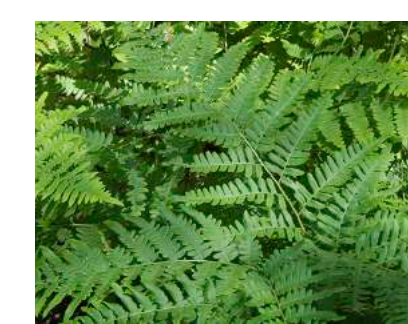
Pavegen
24MWh

≈81.3744MWh

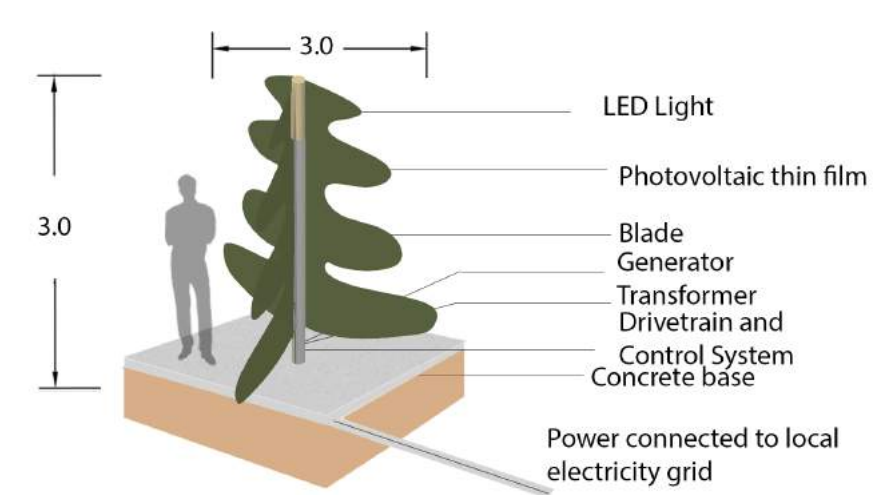


Vertical axis wind turbine, wind-belt and photovoltaic thin films

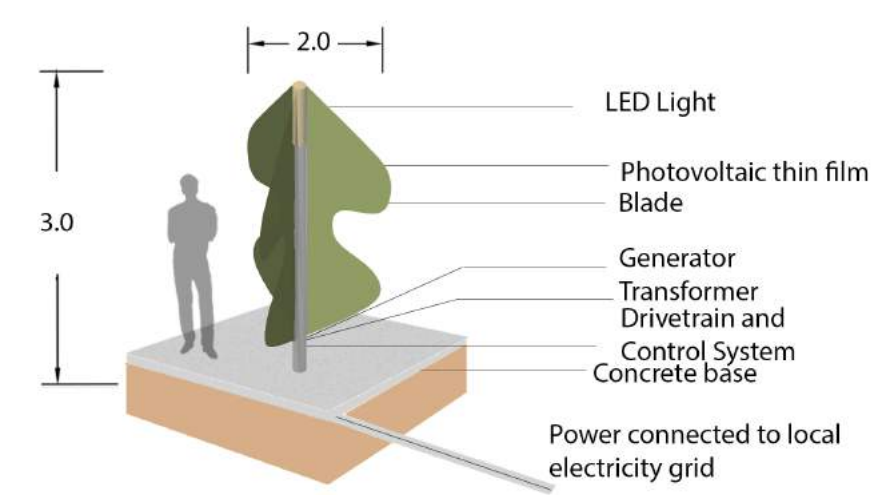
The shape of wind trees developed from leaves of vegetations, which suit coastal environment and different with vegetations in other places. All the wind trees have LED light which provide lighting at night. When the wind comes the wind-belt will have sounds which make people feel wind has generate to energy. Wind trees hopes to have educational values in ecology and clean energy.



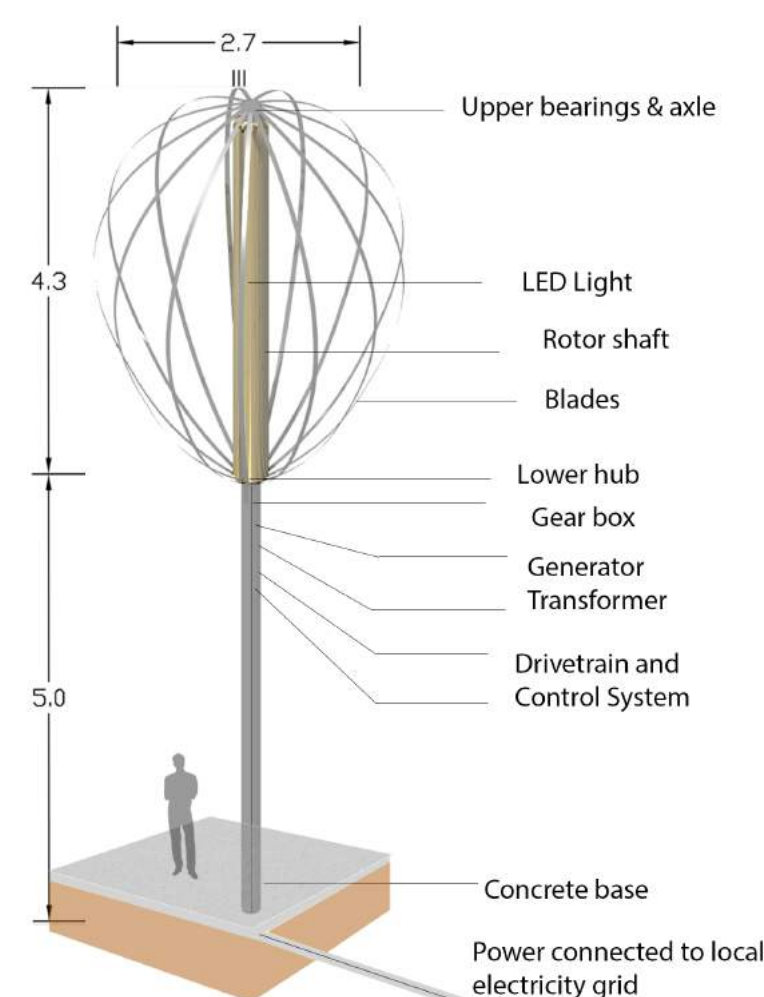
Pteridium esculentum
bracken fern



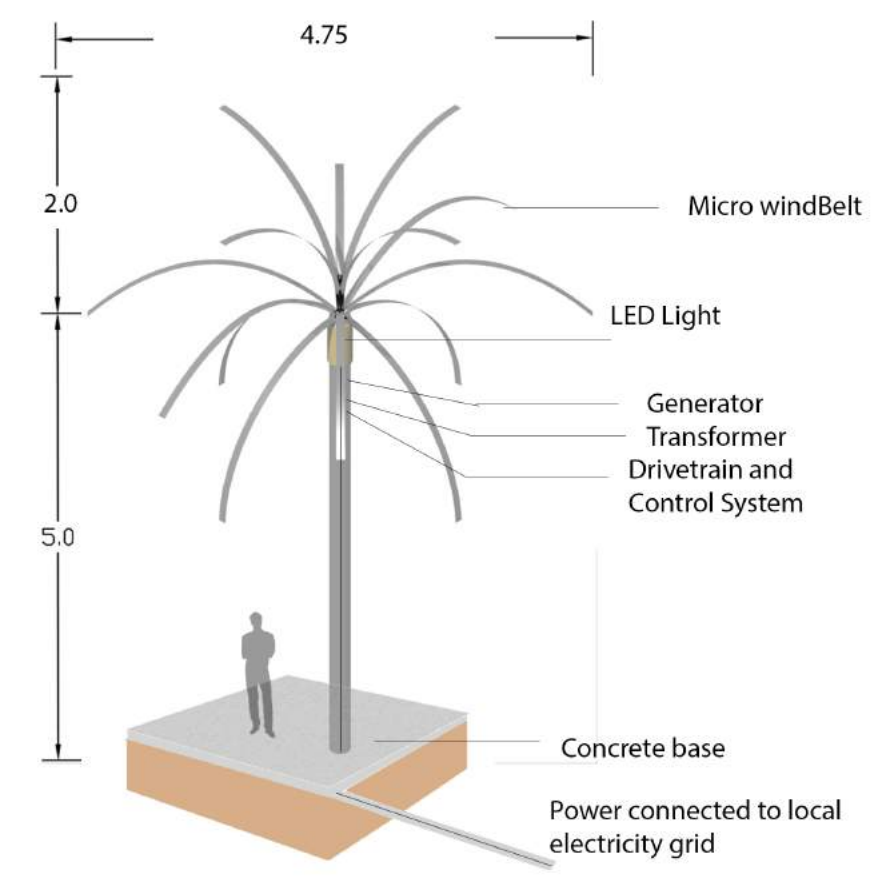
Chiloscyphus semiteres
Common Crestwort



Coastal tea tree



Casuarina equisetifolia
Australian pine tree

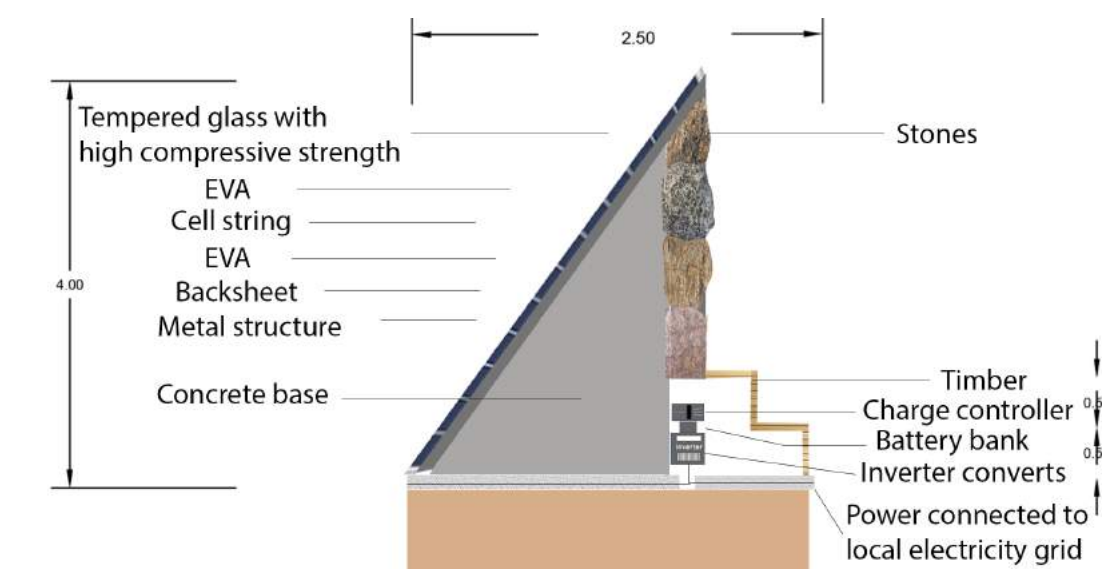
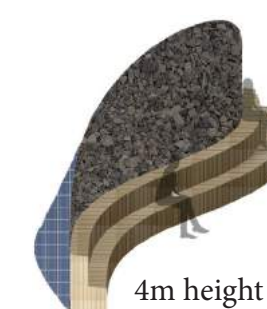


Palm Tree

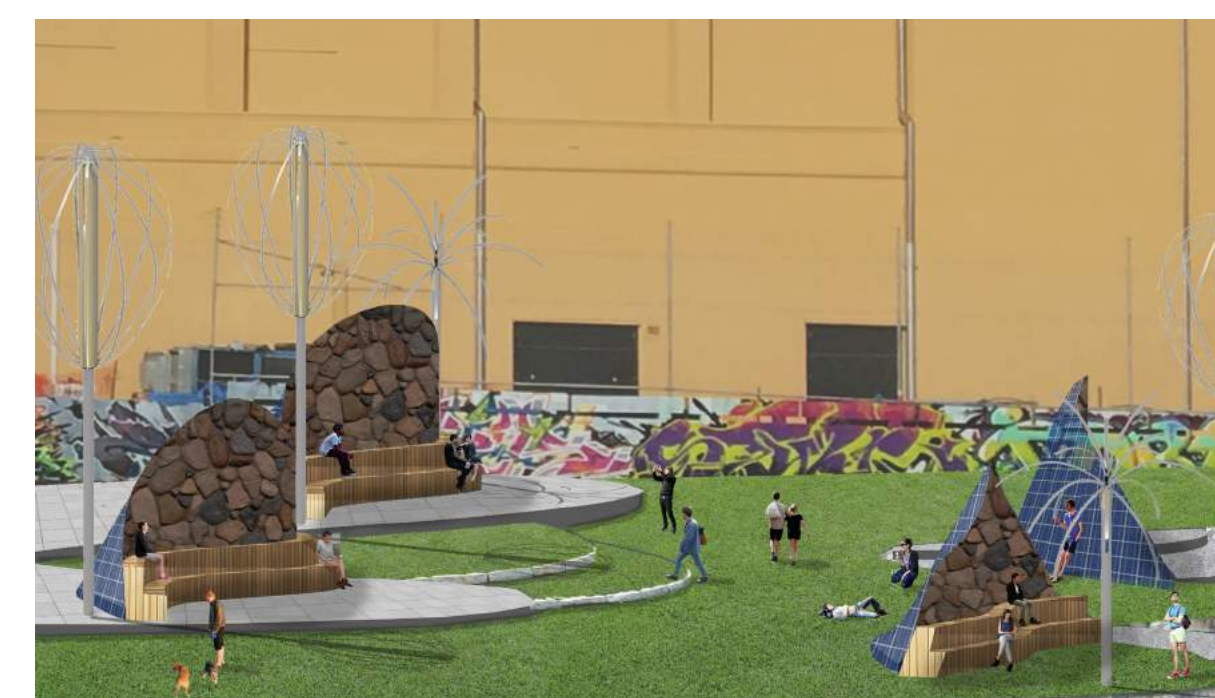
Thin-Film Solar Cells



400 millions
years ago
Mountain
ranges



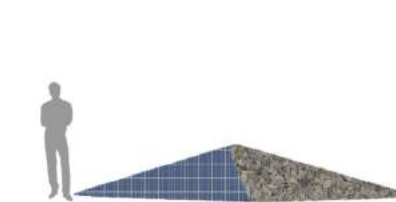
4m solar dune section



Mountain ranges terrace perspective



100 millions
years ago
Plate isolated
Sunken bay
came



0.5m height

Thin-Film Solar Cells

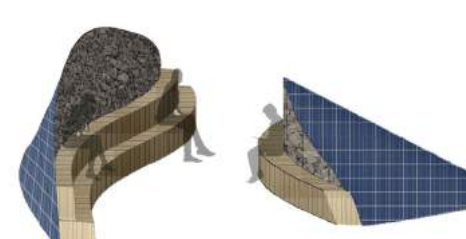
The solar dunes is developed from geology history. So the public art represent geology history can become a culture space. The geology history of our site are from high mountain ranges, sunken marine bay and swampy land to St kilda beach now. The height of dunes represent the geology change. Based on site topography now, the triangle will be high to low just like mountain to swampy-land and to the nowadays jacka boulevard.



Sunken bay terrace perspective

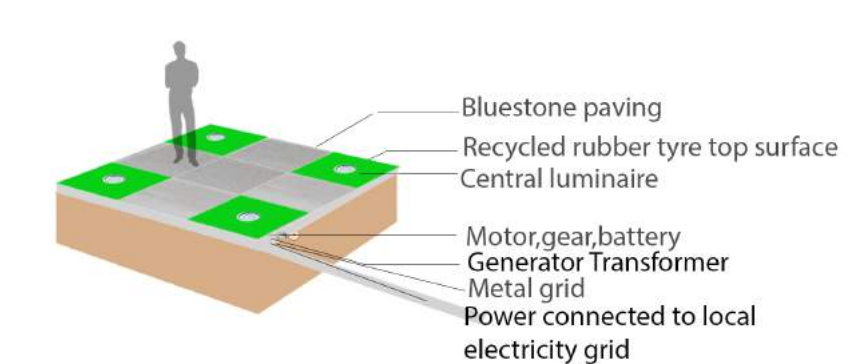


75 thousands years ago
Sea level fall again,
swamp deep river
channel. Lagoon, sand
dunes, shrub land



3m height 1.5m height

Kinetic footpath Pavegen



Pavegen

This technology wii be used in plaza. At night, the footpath will light when people walk on it. At daytime. the tiles will store the energy and transfer energy to electricity grid.



Swampy land terrace perspective