



EN-VISIBLE WING

The design, EN-Visible Wing mainly focuses on the terms "Land", "Art" and "Generator". The land is focus on the site of St. Kilda Triangle. The Esplanade, known to be the secondary boundary will be used as the primary boundary for the design, with a path that is a public land link with a garden that extends from start to end of the drive. The site for the design will extend into the primary boundary and will be used as the ending path for the land art.

The Generator: OPV solar cells are organic photovoltaics, a branch of electronics that deals with conductive organic polymers or small organic molecules, for light absorption and charge transport to produce electricity from sunlight by the photovoltaic effect. The advantage of using OPV solar cells module is due to ultra-low-cost manufacturing to extremely thin, lightweight, and -flexible form fact.

The diagram is presenting the 12 hour cycle of rotation. The rotation is calculate and computer moving every 30 degrees in the 360 degree circular. The sunlight sensor installed on the top of the frame helps tracking the direction of the sun. As following the sun path, the solar panel is rotating at every hours cycle in order to reduce amount of energy it take for the motor to power the rotation. The OPV solar cells don't require direct sunlight to gain it's maximum energy, as advance it take less amount of rotation for solar panel to have direct sunlight.

