

NODE

The integration of the solar art installation within the St Kilda Energy absorbed during the day is also used to drive mist. The carbon footprint to produce the structure would be 3.1 Triangle Masterplan has been considered carefully to integrate onto the site through nozzles placed around the pavilion tonnes of CO2 for the 25.3 M2 of Solar Cells (6) 12 tonnes and enhance the community driven masterplan developed by and to power lights placed under the solar panels at night. of Co2 For the 26 tonnes of scrap steel (3) and 35 tonnes the City of Port Phillip. The pavilion has been strategically located at the three primary intersections of the St Kilda The proposal draws upon the prominent cultural history of is saved from the prisms by building them out of 9mm thick Triangle Masterplan; Luna Park (east), the Esplanade (north) the site as a destination for leisure. A primary function of recycled glass and applying a diffraction grating to achieve and St Kilda Foreshore (west). The installation is designed to the proposal was to create renewable energy production the same refraction properties of a solid glass prism. The form a civic hub which is accessible all year round day or night whilst simultaneously providing an interactive art installation structure would become carbon neutral within 10.5 Years to provide a continuous activation of the site and to enhance harnessing the same energy source in order to enrich the St on the assumption that it produces an average 9.549 the St Kilda Triangle as a valuable public space. One of the Kilda Triangle. Light installations typically use energy at night Annual MWh each year offsetting 4.77 tonnes of CO2 per primary functions of the installation is to provide a venue for when they can be witnessed / experienced but are inanimate year (5). The carbon footprint of construction is hard to pin some of St Kilda's events and activities including the weekly during the day. The installation is designed to animate solar down and would greatly depend on the machinery used Esplanade Market and the St Kilda festival. The pavilion is energy throughout the day with the use of glass prisms and speed of construction. Beyond 10.5 years the pavilion positioned above underground parking as proposed within that refract sunlight into radiant colours of the spectrum will be offsetting the carbon footprint of Melbourne by an the Masterplan, which provides 350 car park spaces. each that gradually change throughout the day and seasons. average of 4.77 tonnes Of CO2 per year, however this figure solar panel is attached to a prism, with 50% of light falling The water is activated when the installation is not being is dependent on Melbourne's future reliance on fossil fuels. onto the solar cell to be absorbed and 50% going through used as a venue and provides an element of play by giving the prism refracting off inside to fall beneath the pavilion volume to the refracted light. At night some of the energy

canopy to enrich the St Kilda Triangle with its coloured light. produced from the solar panels is used to create a light show.

IMPACT

of Co2 For the 25 tonnes of glass (4). Weight and material

