

Depending on the orientation of the panels, one can lose 30 to 40% of the theoretical power. With nearly fifteen panels scattered throughout the site, the annual production of the structure we are proposing would therefore be  $15 \times 2205 \text{ KWh} \times 0.3$ , or 9922 KWh. Our proposal measures approximately  $400 \text{ m}^2$  on the ground for a height of 50 meters (panels included)

Our proposal therefore produces 9922 kWh per year

Energy is also produced thanks to a system of solar ovens. Indeed, some panels of the SOLAR TREE function as solar ovens and can heat water passing underneath. The latter turns into steam and feeds mini-turbines. Since the direct solar flux is about  $800 \text{ W} / \text{m}^2$ , the power obtained with a yield of about 60% is  $0.6 \times 800 \text{ W} / \text{m}^2 \times 50 \text{ m}^2 \times 5$ .

In addition to the planned structure within the ST kilda triangle, other mini-TREES are planned along THE ESPLANADE and the Secondary Boundary (THE SHORE). These mini SOLAR TREES are arranged in accordance with the Master Plan.

