

# THE CANOPY

## VISUALISATIONS KEY

1. Aerial Site View- one of the main concepts within the design was to provide slender incisions on site that respected the St. Kilda purple masterplan, touched the ground lightly and connected the site seamlessly providing all of the community/environments needs.
2. An offshore, underwater view of the Aquatic Ecosystem showing foundations that have been designed to draw in water towards tidal turbines under the structures platform whilst also providing new man made habitats for the Port Phillip Bay Shellfish restoration project. This government supported project recognises that shellfish reefs are important, supporting healthy fish populations, aiding biodiversity, providing water filtration and helping protect the shoreline from erosion. Port Phillip Bay has lost over 95% of native flat oyster and blue mussel reefs since European settlement and this project aims to restore balance to these fragile ecosystems.
3. A night time view of the Entertainment Ecosystem. Situated at the site entry right along the entries to the Palais Theatre and Luna Park, the Entertainment ecosystem has been designed to be the heart of the community. A stepped hexagonal performance stage framed and hugged by the canopy modules behind provides the perfect backdrop for community events, theatre and fashion shows, art installations, festivals, performances, stalls and showcases. Crowds can form within the structures embracing arms or up along its canopy line watching the spectacle from above while food, drinks and market stalls can pop up shaded from the elements under the canopies upper platform.
4. A quiet day time view from the Entertainment platform down the sloping site towards Port Phillip Bay, highlighting the whimsical almost futuristic nature of the design intent.
5. A view from the slopes towards Jacka Boulevard showing the ease with which the structure snakes along the site connecting pathways and helping join the masterplan in the process.
6. A view from the Aquatic Ecosystem back towards the site showing the structures ability to draw the community out towards the ocean while also utilizing all potential renewable energy sources on site.
7. **MAIN VIEW:** Landscape view showing the Aquatic and Wellness Ecosystem's presence within the sites surrounding context.

## ST. KILDA WIND ROSE Annual (5 Year Average)



**NOTE:** Majority of onshore/offshore horizontal wind turbines on site angled towards North/South Axis to take full advantage of predominant wind direction.

'The Canopy' uses a layered approach with tidal turbines, wind turbines, and photovoltaic cells/parabolic trough superconductors and biomimicry of natural tree processes such as photosynthesis and wind resistance to create a community park that sits empathetically within the landscape while generating **2,205Mwh** of carbon neutral power annually (enough to power 315 standard homes per year). We wanted a renewable energy art installation that was not just aesthetic or alternatively utilitarian, but designed to connect the site and draw the inhabitants within the architecture- above the trees and out towards the ocean. The Canopy shapes natural and man-made habitats and forms a design that complements the St. Kilda purple masterplan and the unique whimsicality of a site that's adjoined to the eccentric Luna Park bounded by roller coasters, the art deco grandeur of the Palais theatre and sits within Carlo Catani's early 20th Century Mediterranean inspired promenade. The design intent was to create a whimsical almost futuristic universe inspiring visitors and providing the catalyst for a greater conversation on the place of renewable energy infrastructure and its integration within the urban built environment in the 21st Century.

- Educational Ecosystem**
  - Digital Community Library
  - Interactive Kinetic Nets
  - Workspace Charging Stations
  - Social/Meeting Space
  - Meditation Zone
- Entertainment Ecosystem**
  - Outdoor Cinema Zone
  - Food
  - Bar
  - Performance/Community Stage
- Wellness Ecosystem**
  - Yoga/Pilates Zone
  - Cycling /Walking Track
  - Outdoor Exercise Stations
  - Community Gardens
- Aquatic Ecosystem**
  - Ocean/Tidal 50m Swimming Pool
  - Swimming/ Childrens beach
  - Rowing Machine stations to power tidal turbines below
  - Port Phillip bay blue Oyster/Shellfish man made regeneration habitat
  - Experimental Algae/Biofuel Testing Pool- exploring new forms of renewable energy
- Underground Carpark**
  - Subsidised electric car green energy charging stations
  - Underground parking provisions for 250 cars

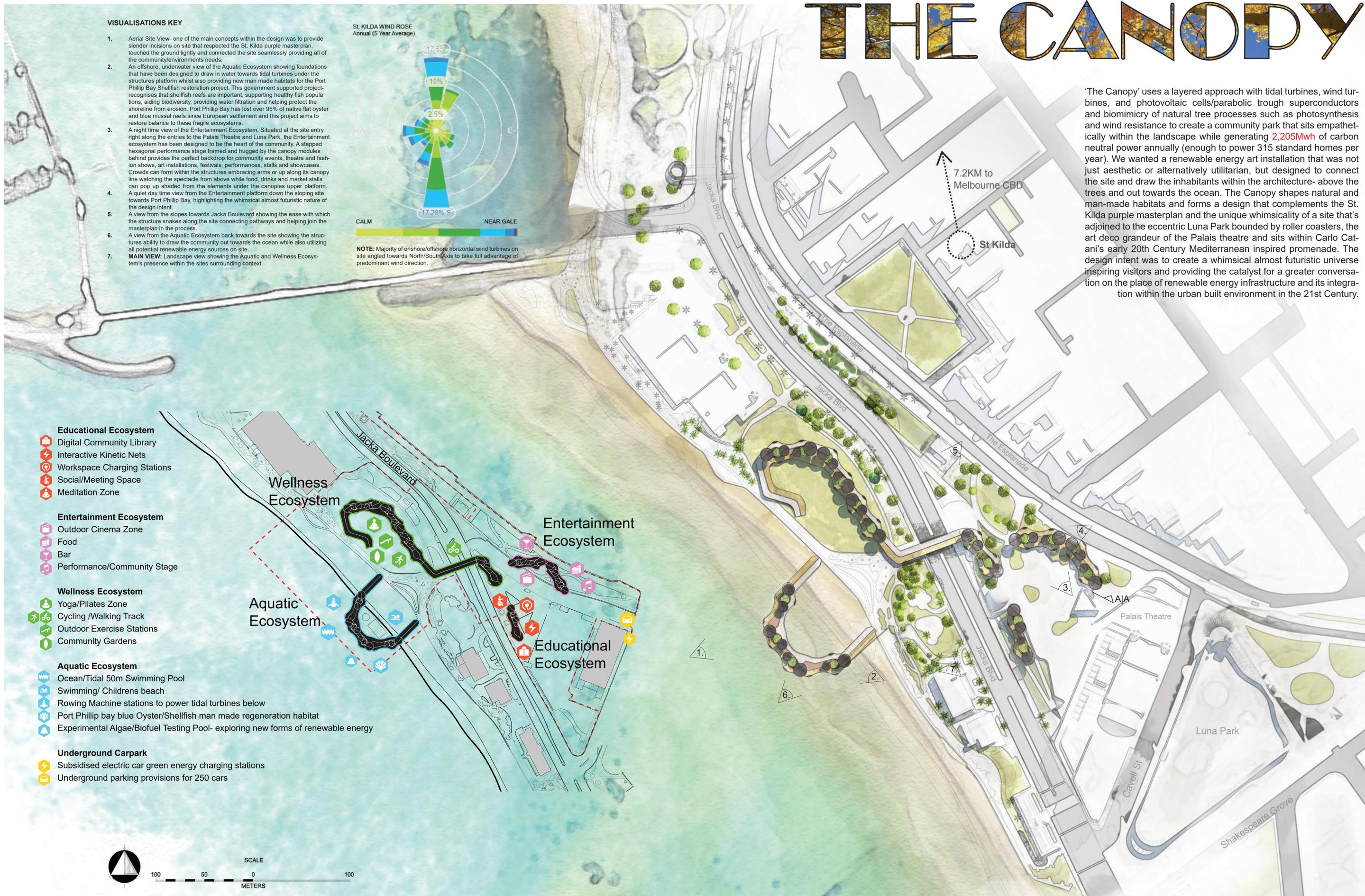


FIGURE: ST. KILDA FORESHORE SITE PLAN  
SCALE: 1 : 1000