

CONTEXT

We are living on a planet on which an unfathomable amount of energy has always passed before our eyes. The sun, sea, wind, gravity, have always surrounded us. There have been key points in our brief existence, where we have asked: “what if I could capture that energy?” and off we have gone, from making sailboats and water mills, to solar panels and turbines. We have utilized these energies in such a way, that it would have been considered magic only decades before.

THE BUILD

SPECIFICATIONS:
L: 20m W: 4m H: 30m
Weight: 2T
Material: Can be manufactured in various types of Resin based polymers depending on the cost

ENERGY SPECS:
14 Generator Units
Capable to align to wind direction up to 228°
Estimated clean energy produced: 1.2 GWh per year.

SOCIAL IMPACT

The social presence and interactivity of the Seaflute are key, in order for it to become a real solution for our world. By bringing this invention to the waterfront and situated to live among us, we want to showcase what the possibilities are only if we have the right perspective. The idea of an immense power plant perched on a hillside or by a lake, releasing clouds of smoke and a river of polluted water simply becomes

invalid and unnecessary, when we can have power generators that can not only be beautiful sculptures but also instruments of awe and education for our society and its visitors. On St. Kilda, the urban regeneration of what once was a grey parking lot into a green hill by the water dotted by Seaflutes, is a further testament to our time and the change in how we see our resourceful planet.

TECHNOLOGY

SEAFLUTE AS A MUSICAL INSTRUMENT

The Seaflute’s capability as a power generator allow its presence to remain clean, accessible and friendly for the human scale. But what has been especially designed for the Seaflute at St. Kilda is its interactive features.

While the passing wind provides an unlimited flow of air for electricity production, the same air passing through the Seaflutes can create music. Through a careful study of pan flute structure and dimensions, each of the Seaflutes has been customized in length to create a specific note. The 14

Seaflutes represent 2 octaves of the music scale. Various times during the day, and per request, the flutes can be controlled via a centralized computer which opens and closes the air columns inside each Seaflute, playing melodies according to the musical notations given to it.

