

## **Singapore Stanford Partnership Programme**

### **MS Project MS08-10**

#### **Wave Energy Converter and Seawater Desalination Plant**

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To achieve environmental sustainability and reduce the global warming impact on our planet, green energy is becoming an important research area that attracts investment from the governments and commercial companies. Ocean waves contain enormous energy that can be used as green energy. The extraction of wave energy by OWC (Oscillating Water Column) has gain popularity in recent years. Seawater desalination alternative source for the fresh water supply. But there are practical issues associated with the seawater desalination. One of the issues is the high energy consumption. In this project, a conceptual design will be explored to use wave energy to power the seawater desalination plant offshore. The project will include both literature review and conceptual design.