



Plastic Research Centre Saves the Lost Island

100% plastic made research centre was proposed on the Island 11505 in North Pacific Gyre by Hazel Jeong in June 2009. The huge amount of plastic wastes in North Pacific Gyre are going to be collected and will turn into a research centre facility. Harvested mixed plastics are sorted into two group; thermoplastic which melt in heat and thermoset which burnt in heat. Thermoplastic is moulded into L shape adobe with hollow inside by injection moulding and thermoset is filled up the L shape adobes. The whole idea was collecting and cleaning up the plastic in the island and store them as plastic recycling technology now is inefficient.

Lots of animals can be saved from threatening life habitat by the research centre project. Many of turtles, mammals and birds were exposed to plastic pollution and often got killed. ALGITA Marine Research Foundation reported that more than 1000 pieces of plastic were in a death turtle's stomach including part of a comb, a toy truck wheel and nylon rope last year. Plastics in the island will be collected and eliminates life threat of the animals. Also the plastic clean up of the island contribute to spread and growth of flora as well. It enhances stable ecosystem of the island.

Sustainable design of research centre provides comfort condition to the researchers. The dome shape design idea was borrowed from igloo which is suit for extremely cold climate areas. The dome was redesigned and adopted into tropical climate area with great concern of passive cooling system. The large size dome has height of 8m enable stack effect. L shape plastic adobes create opening upto 24% of the surface and maximise ventilation which is essential for humid tropical zone.

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