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HYDROGENASE AIRSHIPS

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ABSTRACT:

Hydrogenase airships as the name implies, this vehicle can be used both as ship to float and also as aircrafts to fly. This ship works on biofuel obtained from the hydrogenated seaweeds. Hydrogenase are special enzymes in certain microorganisms [such as *Chlamydomonas reinhardtii*] which catalyze the reduction of a particular substance by hydrogen. And it is estimated that a hectare of seaweeds could produce organically 120 times more fuel than *colza* [biodiesel] and it is fully environmental friendly fuel. The specialized breeds of seaweeds soak up sunlight and carbon dioxide to generate hydrogen, which acts as fuel for this ship. This ship is energy efficient and also acts as an environment protector. This semi-rigid not pressurized air ship stretches vertically and forms a big flower like structure. The spaces in the ship divide in cross under the shape of petals that welcome the main sector activities which includes housing, offices, laboratories, entertainment etc.,. This type of vehicle is too heavier when compared with others but they reach speed of about 175km/hr. Each hydrogenase airship is covered by photovoltaic cells and features a smoothly sculpted form studded with 20 wind turbines. On top of producing clean energy, this floating station can also play an incredible observatory of the sea fauna and flora and fight for the protection of the ecosystem. The concept hydrogenase is certainly far off futuristic concept but perhaps one day in future we will see these ships floating in the sky, acting as both vehicle and also an environmental scavenger.

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