

SOLAR SHIP

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ABSTRACT

With the increased of fuel energy demand and fear of depletion of the fossil fuel for year ahead makes most of boat user facing problem with burdened by higher cost of the fuel. Renewable energy has remarkably the only best solution for this problem. Hence, these projects proposed to solve the problem by replacing the fuel energy with the renewable solar power energy. The proposed of the solar power boat which will be consists of the solar panel (photovoltaic cell) as sunlight collector that act as the power generator that will be supported by the battery as storage power for the boat and the load which is dc motor that replace fuel engine. The charging process will be control by the solar charger controller. Overall system will start by the sunlight converted to the electricity and then the generated power will be transferred to the battery. Then only that the load (dc motor) can be operated. Both of these charging and running the load will be operate together. With this solar power technology, we can reduce fuel usage. Moreover, these method helps reduce air pollution that produced by the fuel engine.

This report outlines the work that was carried out throughout the course of the semester in the design and fabrications of the Solar Ship. This report describes each design requirement and how the Solar ship was fabricated according to technical drawings. In addition to fabrication, this report examines the performance of the Solar Ship during testing and the suggested improvements are recommended in future.

Those calculations are very important in starting the project which includes dimensions of the boat, solar panel, battery charging capacity and so on. Other than that, it also consists of the materials and parts used in my project. This report explains the manufacturing process and the way it works. There are some diagrams and picture have been attached to give more idea and to understand easily of the project and the concept of how it is manufactured and works.