



PEFE (Plant Eco Friendly Energizer)

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JM070 – Innovation – Local – Category C: Students - Secondary School

Abstract—PEFE also known as Plant Eco Friendly Energizer is a great innovation that is beneficial. The primary aim of PEFE is to produce electricity naturally. This product inspires many to use eco-friendly products to help save the planet's resources. PEFE is a great product to aid the country's economy and at the same time it leads Malaysians to live in a more sustainable environment as well as preserves the environment and lives of living things. How does PEFE works? Living plants in microbial fuel cells can generate energy. How does that work? Plants photosynthesize organic matter using solar energy. A significant part of this organic matter is released into the soil. There electrochemically active micro-organisms break down the organic matter producing electrons which are transported to the anode of the fuel cell. The energy rich electrons flow through a load to the cathode to generate 24 hours per day electricity. PEFE is designed in such a way that it has many advantages to the users as well as the environment. The advantages of PEFE is it produces and saves electricity as it benefits everyone in the saving of energy. It is also an eco-friendly product which does not pollute the environment and prevents global warming and greenhouse effect. PEFE also improves indoor air quality and has a longer life span to electrical appliance.

Keywords—*Today's wastage is tomorrow's shortage*