

# GreenSpark

*Bryophyllum plants are very fast growing plants germinated through the vegetative propagation process. Its leaves are rich with chlorine and iron and also contain a large portion of water.*



*When the leaves are crushed they take a thick liquid form. Chlorine and Iron become ionized in the liquid.*

*If copper and zinc plates are immersed in the liquid the system works as a volcanic cell. Electricity generation increases based on the number of electrodes used. Joining the plates in a series connection would generate more voltage (potential difference) and parallel connection would generate more amperage (current). A combination of parallel and series connections can generate large potentials with good flow of current.*



*Electric and electronic appliances (fan, lights, TV, computers) can use this electricity to run. However, at this point we want to only focus on lights and fans.*

*When a number of electrode sets of parallel and series connection are immersed in liquid Bryophyllum they would form big batteries even power plants.*



*This is the formation of electrode sets. Horizontally placed electrode sets are in parallel connection to increase the flow of current. The vertically positioned electrodes are in series connection to generate more potential difference or voltage.*

*Here is the portable 'D.light Battery' which runs on green Bryophyllum leaves.*

