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Author: Mr. Miguel Ángel Serrano  
Universidad Panamericana de Ciudad de México, Mexico, someone\_arse@hotmail.com

Mr. Axel Núñez Arzola  
Facultad de Ingeniería-UNAM, Mexico, axelolcat11@gmail.com  
Ms. Daniela Fernanda González Chávez  
Universidad Nacional Autónoma de México (UNAM), Mexico, astronautdani12@gmail.com  
Ms. Cecilia Guadalupe Torres Perea  
Universidad Nacional Autónoma de México (UNAM), Mexico, ceciliatorresperea@ciencias.unam.mx  
Ms. Arantza Méndez Rodríguez  
Universidad Panamericana de Ciudad de México, Mexico, arantza.mendez.r@gmail.com  
Mr. Itzcoatl Nunez San Miguel  
Facultad de Ingeniería-UNAM, Mexico, itzcoatlf@yahoo.com  
Mr. Alvaro Regules  
National Technology of Mexico (TecNM), Mexico, 1171070300@milpaalta.tecnm.mx  
Mr. Héctor Delgado  
High Technology Unit (UAT) Faculty of Engineering - UNAM, Mexico,  
delgadohectorsantiago@comunidad.unam.mx

OXYGEN AND ENERGY FOR INTERPLANETARY TRAVELS

**Abstract**

One of the most important factors in missions to other planets is the generation of energy, without energy we cannot transport ourselves or transport anything that we need to transport in the atmosphere of the planets, one hundred percent of the transports used in these missions need energy. , like the rocket, space vehicles and also the rovers. Taking into account the amount of energy that will be used is important to know how to generate energy in the atmosphere efficiently.

The algae can help us to generate energy from these planets without worrying about the fact that we run out of reserves from the earth, we could constantly be generating energy to be able to store it since these types of vehicles consume a large amount of energy, other jobs in what can help us algae is with the purification of oxygen in the rockets, to have the rocket with a standard carbon dioxide cleaning.

One of the important factors of algae is that there are strains that flourish in space conditions, being able to plant algae in space means less weight when transporting it in the rocket and better quality of algae production since it could be produced every that will be needed and not have her working when it isn't necessary.

Studies have been carried out in the international space station and these strains have lasted up to 16 months in space, there are two strains: CCCryo 213-06 and CCCryo101-99, strains from Antarctica and Norway respectively, these algae endure from 20 degrees Celsius below zero to 50 above zero and surprisingly resist large amounts of UVA, UVB and UVC rays, cosmic radiation of 500 mGy and a Mars-like atmosphere of 1000 Pa.

These types of algae have the capacity to produce energy, mainly the green algae strain, with the capacity to energize any transport, taking into account that each of these panels has a production of 160 watts per hour, but that nowadays it has been looking for a way to make them more efficient to produce

more watts in less time, which means that with an amount of 15 organizer panels for an entire 2.3kW car, we could energize it to have the necessary power and charge this type of vehicle , it would take us some time but in the end we could be carrying them all the time.