Kottayam Medical College.

Rajendran says-"Pilgrim centers can solve their waste disposal problem through community biogas plants. The project for construction of community biogas plant at Palani temple is under progress. The gas generated from the excreta of pilgrims will be used to light up the new bus stand there. I have submitted a plan to the Kerala Government for setting up a 3 MW power plant at Sabbatical. About 800 toilets are there in Sabarimala and roughly 45 Ton human waste is produced daily during pilgrim season. According to my estimate the daily excreta of a person is worth Rs.6/- in terms of the energy that it will produce. One need not grimace at the thought of using methane gas generated in public toilets for cooking purpose " explained Rajendran.

Rajendran won energy conservation awards from Government of Kerala. Government of Tamilnadu, Administration of Pondicherry and Andaman Nicobar Administration. Colombo Open University gave honorary Doctorate to Rajendran considering his ideas and contributions in this field. Rajendran's latest initiative is to use methane generated from community biogas plants as fuel for automobiles and trials are going on.



Green Shield against global warming

over the concrete jungles with a radiation upon the vegetable soft skin. vegetables for the home and serve as a all micronutrients in the vegetables. What green armor against global warming" says we need is vegetables with good Oxygen John Stephen. The tall vertical GI frames and nutritional content in it. So instead of on his terrace are thickly covered with soil I grow them in fiber basket (Baskets climbers like pumpkin, bearing fruits in filled with coir fiber). 90% of our energy abundance. John Stephen, a USA returnee comes from oxygen; only 10% comes from is offering a novel greening concept for the food and water. If oxygen supply to the cities, "Oxy farming".

Kochi in 2008 from the US after living there what we want"-says John. for 33 years since he was 30 years old. In the USA, eventhough John was working John's house and terrace. The double in the Oil Industry, he interacted with the storied house is covered with wines and farmers and cowboys there. Having a rural creepers from ground portion up to the background, interest in farming was there terrace. Plants that emit oxygen in with him since early childhood. This abundance are grown around the house. motivated John to do research on high According to John, vegetables and other intensity farming in lesser area. Oxy plants are grown in his urban farm in an farming concept was evolved thus. He atmosphere having 21% Oxygen. Apart field-tested the concept in US and it proved from growing them in fiber baskets water to be a huge success.

oxygen in soil and roots need 5 10% oxygen which are Microbial inoculants consisting for healthy growth. The heat radiation of living cells of microorganism like from the sun dries up the soil moisture bacteria, algae and fungi alone or and there is almost 7 hours of heat combination, are supplied to the crops

vertical gardens, this will save city Even human beings cannot stand one hour dwellers from scorching heat, yield of sun heat and the sun's extreme heat kills cells gets reduced they become prone to John Stephen returned to Vennala, diseases like cancer. So oxygen rich food is

A model of Oxy farming can be seen in is sprinkled at the root zone through an "The surface land has less than 3% automatic irrigation system. Bio-fertilizers,



though irrigation water. They make temperature discrepancy is the result irrigation also work automatically to reduce this devastating situation. enriching the atmosphere with moisture.

ambience. Temperatures are often a method"-John explains. few degrees higher in cities than they

fiber baskets planted with vegetables. new atmospheric technology brings concept, "says John. The whole system reduces the effect of forth good harvest even in extremely

are in their surrounding rural areas. This foreword is the production of Oxy milk. wider implications in the future.

In this method many types of oxygen rich green fodders like elephant grass, green leaves like moringa and different types of grains are fed to the cattle. They are grown in pollution free, comfortable surroundings with good aeration. According to John, the Oxy milk produced by the cattle grown under this system will be rich in nutrients and Oxygen.

"I established a small dairy in a village in Cochin, where I researched for three years on Raw Oxy milk production. The efforts bore fruits and I successfully achieved the know-how to produce Oxy milk through the many green fodders absolutely free from insects, bacteria, fungi and other pathogens. I have also developed a multi tier system in which cattle and fodder can be grown utilizing the vertical space. The fodder waste can be utilized for producing electricity for the unit"- says John.

At 70, John is still very energetic and healthy. He attributes this to his habit of consuming oxy vegetables, oxy milk, Oxy Alkaline water with 74 minerals and physical exercise through farming activities. "In Global Warming era, Vegetables and crops must produce good yields while at the same time conserving land and water should be of available all the nutrients including of a bizarre phenomenon known as the foremost importance. Only then we can minor ones to the crops and helps in urban heat island effect. The green be proud that we are leaving behind pathogen free productivity. Mist blankets of Oxy farming could also help something wonderful for the future generation and not borrowing from the "The terrace area of my home is future for our livelihood. I am fully about 1000sq feet. The whole area is equipped with the know-how and the Five vertical GI frames erected on utilized for producing Oxy Vegetables practical aspects of how to bring about the terrace provide 500sq feet vertical and wine Grape farming. The this change and I am sure that atmosphere. Wines and climbers trailed productivity of vertical farming is 5 to likeminded people would accept them. on these frames act as green shields for 9 times that of conventional farming. I had discussions with ICAR (Indian the concrete structure. The frames also Climate change could lead to even Council for Agricultural Research) and serve as a multi-tier system for placing warmer temperatures in cities but the they have shown keen interest in the

Population growth, an expanding UV radiation and global warming, cut bad weather conditions. These middle class with changing lifestyles and down atmospheric pollution, reduce vegetables and fruits have higher diets, and the urgent need to improve electricity consumption by reducing quantity of oxygen with higher levels water, energy and food security for the heat absorption, act as Oxygen power micronutrients. I have been doing this poorest -all place growing pressure on houses, provide year round vegetables for the past 5 years and I think that it is limited resources. Green, sustainable from minimum area with less labor and my moral responsibly to introduce and futuristic development pathways water and provide a cool and green city more and more people to this farming are need of the hour. The small steps put forward by these three individuals Another concept that John puts in this direction will have better and