

Recent Inventions in the Field of Environmental Engineering and Technology

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Abstract

Surrounding the qualities of environment there are a large no. of issues that are calling for big solutions. There is an important need for investment of time and resources in the development of innovative ideas and experiments that stop resource exploitation and possibly help to conserve the resources. This paper represents some recent inventions and ideas that can play an important and sustainable role in the conservation and development of environmental qualities and resources.

Keywords

Qualities, Environment, Issues, Resources, Recent Innovations and solutions

Introduction

Environmental technology, green technology or clean technology is the application of one or more of environmental science, green chemistry, environmental monitoring and electronic devices to monitor, model and conserve the environment and resources, and to curb the negative impacts of human involvement. The term is also used to describe sustainable energy generation technologies such as photovoltaics, wind turbine, bioreactors and sustainable development and management.

Green technology can reduce the amount of waste & pollution and provide early warning message that is created during production, consumption and impact of natural disaster. This can be only achieved by developing new environmentally friendly, safe and non-toxic materials, smart monitoring techniques & their based innovative technologies.



(a)



(b)

Sustainable urban design and innovation: Reverse osmosis desalination plant in Nepal. Photovoltaic ombrière SUDI is an autonomous and mobile station that replenishes energy for electric vehicles using solar energy.

In saving the world environment from any further damage people from all walks of life including industrialist, politicians & celebrities are joining hands to spread the message across to the common people. The good thing is that most industrialists have started using photocatalytic laser technology to insure a significant reduction in the emission of gasses & toxic substances that can harm the environment.

People have begun to understand that preserving the environment is the only way in which they can sustain themselves. Solar energy for generating power & other green technologies move the world to minimize any further ecological damage & creating awareness about sharing planet earth.

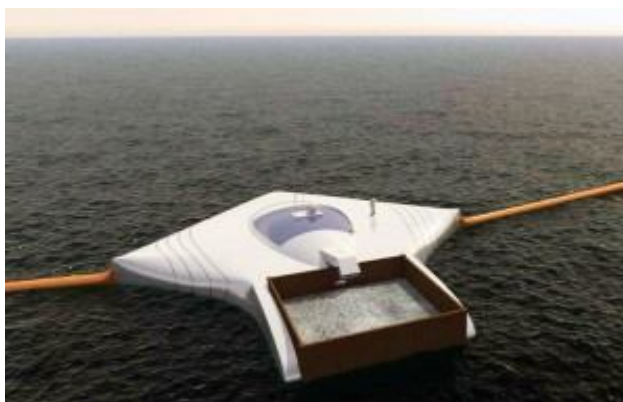
Dmytro Fodorever [1] use innovative techniques to preserve the global environment. Magued Iskander [2] represent Innovative Techniques in Instruction Technology, E-Learning, E- assessment & Education.

E.Mandell[3] presented Environmental Engineering Pioneers innovative clean water sources. Engineering technologies look to quench the world's thirst for clean drinking water through cheap , green self powered purification mechanisms. New innovations are making clean water more accessible by lowering the financial & environmental costs of purification , Engineer Bruce Logan of Penn State University is perfecting a process by which bacteria in waste water generate the necessary electrical power to clean the water Canadian technology company quest water solutions has teamed up with the Angolan government to develop and install drinking stations called AQUA taps , which use solar energy to purify drinking water inside used shipping containers.

B.Budde, F.Alke [4] explain Environmental Innovation & societal Transitions, The automotive industry has proposed & announced a no. of technological innovations to reduce the environmental impact of transport. They explain the relation between communication & innovation activities, A comparison of hybrid electric & fuel cell vehicles.

A. V.Vooren, E. Bouillat [5] evaluate CO2 reduction policy mixes in the automotive sector. M.Luleva [6] shows top 10 great inventions by Teenagers, The youngsters are capable to inventing the most incredible technologies, They can transform our planet to a much

better & greater place like;[a] 19 yr. old Boyan designed a array,which can use for removing of all garbage from the world's oceans in 5yrs.



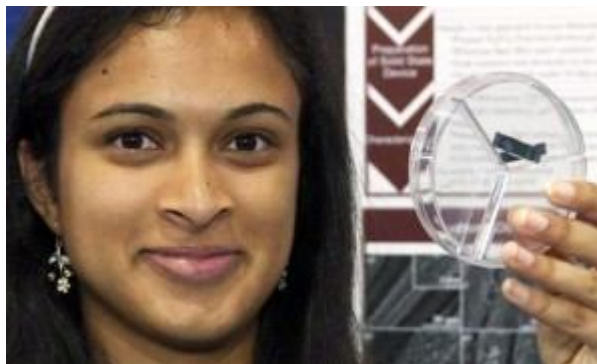
(C)

[b] Four 14 & 15 yr old Nigerian girls created a renewable energy generator which could provide energy for five hrs. using 1 lit. of urine.

[c] 19 yr old Aisha Mustafa created the system, which could send a rocket in space using only a drop of fuel.

[d] 16 yr. old Elif Bilgin from Turkey managed to turn waste banana peel in to non decaying bioplastic through a self developed chemical process.an energy storage device that can last for 100,000 change cycles and fit within a cell phone battery.

[e] 18 yr old Eesha Khare developed an energy storage device that can last for 100,000 change cycles and fit within a cell phone battery.



(D)

John Pickrell [7] presented 10 inventions for a climate changed future,climate change is a horrifying prospect which have viewed as an opportunity to innovate, John develops some technologies like geo-engineering to cool the planet , he presented 10 future technology to help us cope;

1. Solar powered air conditioning
2. Rotating power generating skyscrapers
3. Orbital solar arrays
4. Heat resistant crops
5. Wave powered water desalination
6. Vertical farms
7. Artificial glaciers
8. Floating houses
9. Floating sustainable cities



(E)

10. Arctic airships

Judy Lin8 present a Engineering Invention makes dirty water reusable, Engineering professor y.Cohen's Gray & Blue Mobile Wetland Gray Water treatment system cleans hundreds of gallons of Gray Water runoff from the test home's showers , bathroom sinks & laundry machine , that is then reused to irrigate trees & gardens.



(F)

Will Henley [9] express some new water technologies that could save the planet:

1. Nano technology infiltration
2. Membrane technology
3. Seawater desalination
4. Smart monitoring
5. Intelligent irrigation—precision irrigation systems
6. Waste water processing
7. Mobile recycling facilities



(G)

Michael Richard [10] editor of website treehugger.com shows how a new breed of inventors is coming up with the goods and they don't cost the earth, in his article The worlds greatest green inventions.

THE ECO KETTLE www.ecokettle.com

GREEN ROOFS www.greenroofs.com

SOLAR-POWERED CELLPHONES www.fraunhofer.de

ICE ENERGY www.ice-energy.com

THE SUPER-POWERED ELECTRIC CAR www.teslamotors.com

THE POWERISER www.powerisers.de

Conclusions

From above discussions it is revealed that many talented Professionals are dedicated to improving and developing various established processes in Eco-friendly Technologies and Inventions to reduce the damaging and exploitations of environmental resources and supports, which are the obligatory of survival and breathing of our present life and future inventions.

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