

# **CLIMATE CHANGE: CREATING OPPORTUNITIES OUT OF A DIRE SITUATION FOR LONG TERM GLOBAL SUSTENANCE AND REVERSAL OF AN ANTHROPOICALLY ACCELERATED CYCLIC PLANETARY PROCESS.**

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## **Abstract**

I examine the various ways in which we can use the nearest source of energy to put back the high levels of Carbon dioxide that forms the Carbon blanket over our planet to Ecologically acceptable levels, inexpensively, efficiently and Economically beneficial process that will help increase Biodiversity and at the same time uplift poor communities through Production.

## **Introduction**

### **MAKING USE OF RENEWABLE ENERGY SOURCES**

Energy is a measure of the ability of a physical system to do work. Simply put, our Planet can be classified as such-A physical system that requires energy in all forms to sustain our increasing human population, whose projected energy needs will one day surpass the critical limit necessary for having Healthy economies, creating very heavy and Negative environmental impact. This is a situation we vehemently would like to avoid in the future while at the same time working on Current environmental issues safely in a manner with Positive results to all that resides within our biosphere.

### **THE INTRICATE RELATIONSHIP BETWEEN PLANETS AND THE SUN**

we live in a stellar planetary system; our planet is the third member of an intricate wonderful Stellar system namely-The Solar system. The strong Anthropic Principle of selection just puts us in an ideal position for Biological life to exist perfectly without need for external mediation. The sun makes up over 99.987 % of the total combined mass in the solar system. that is All bodies combined in the solar system only make up 0.013% of the Solar mass. If mass was anything to go by seriously means we really need to factor in the Sun when deriving any fundamentally feasible environmental ideas. By this I simply mean that the sun forms to a great extent our extended biosphere, and majority of the Natural processes that greatly impart on our day to day activities depend on the Sun for power.

### **LIVING NEXT TO A STAR**

Literally speaking we live next to a star. At only 1 A.U. The sun is classified as a class G2V. Stars produce the energy via Nuclear Fusion and Fission processes. These processes produce vast amounts of energy that if not converted into other forms lead to negative effects. The planetary distance between our planet and the sun is just unique to support life as we know it.

The sun manufactures energy for us via these processes at a safe distance, without the dangerous risks if we human beings did it. Nuclear fusion at current scientific standards is unachievable. But since time immemorial the sun has been doing this, and our planet has been intelligently converting that energy into other other forms efficiently, effectively sustaining all life.

### **NEXT TO A FUSION REACTOR? HOW DO WE HARNESS THE VAST AMOUNT OF ENERGY AT OUR DISPOSAL?**

The sun generates about  $4 \times 10^{26}$  Watts of energy, that is 4 with twenty six Zeros after, per second. That is a massively gigantic sum provided that we require just a meager fraction of that. Much of

that goes to waste due to the little surface area we can afford to tap this abundant free resource to benefit us and promote the eco-balance. If we cannot use this energy to our positive benefit, then it has to convert itself to other negatively imparting forms provided we ourselves altered the planetary natural process.

#### **WHAT IS THE EFFICIENT METHOD TO UTILISE THIS ENERGY**

The simplest and most viable process of utilizing at least part of this energy is through Increase of Biomass. Green biomass forms the bulk of the Ecosystem, plants are able to synthesize the energy from the sun and convert it into other forms of energy that we need to make the planet a better, cleaner and greener place in which to live, work, play and do business.

#### **GLOBAL WARMING AND THE CARBON PROCESS**

The current trend of global warming has been accelerated by us -Human beings, much of this is caused by emissions. The discovery of fossil fuels which in turn power our industries, meant that the we are exploiting the Carbon which our Planet had intelligently put underground millions of years ago to the ground, using biomass and putting it back into our atmosphere in the form of Carbon dioxide, hence creating a thicker than wanted Carbon dioxide blanket over our Beautiful planet, this seriously creates constraints on life in all forms. The problem with us is that we don't consider returning this carbon dioxide safely to where we got it from in the first place. Aiding our planet in the carbon process.

#### **WHY THE OCEANS AND SEAS ARE WINNING THE WAR IN THE CARBONDIOXIDE UPTAKE PROCESS**

Having a large surface area our planets largest water bodies, are the most efficient transducers of the energy we get from the sun. With a vast number of green plants –phytoplanktons. Our oceans support a very wide Bio-diversity, the most wonderful thing is that the largest mammals are found within the seas and oceans. These water bodies play the most fundamental role in the Fast carbon process. They take up Carbon Dioxide from the atmosphere and using photosynthesis turn it into food and other forms thus cooling the planet. The melting icecaps further speed up this process by adding more water hence increasing the surface area into the global ocean sea system (eating up more land, endangering terrestrial life forms including Humanity. Ps note by 2025 if this goes on unchecked majority of Coastal cities might be submerged.) In the near future we might be entering into a global planetary chill. As the earth will be cooled to Very low temperatures endangering human life.

#### **Final thought**

We can too help in removing carbon from the atmosphere and aid in the synergy that has always existed between our terrestrial home and the Oceans and Seas. If we chipped in by planting plants of all forms to promote Biodiversity. Plants occupy the Producer niche in our Ecosystem, In addition to removing Carbon dioxide from the atmosphere; they also in a sense purify the air and add Oxygen to our atmosphere a very essential Gas for life to exist. Plants as Biomass in essence also provide Medicines, shelter, Aesthetic beauty, enhance conservation projects and much more, this in turn reduces cost of production making life Better and in a greater sense minimize conflicts, Making our planet beautiful safe and less expensive to live in, thus promoting humanity. The final solution lies largely on not how much carbon you use but how much carbon dioxide you put back where we got it from and plants and the sun play a magnificent role in this symphony.

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#### **References (further reading)**

(1) CERINA plan - . [www.cerina.org](http://www.cerina.org)

(2) Blending climate Finance through national climate funds (A guidebook for the design and establishment of climate funding (2011) –UNDP

(3) The Business case for the Green Economy-*sustainable return on investment (2012) - UNEP*

(4) Green economy in a Blue world (2012)-UNEP

(5) Moving towards a Climate Neutral UN(The *UN system Carbon footprint and efforts to reduce it 2011 edition*

(6) Basic Epidemiology *Bonita, Beaglehole, Kjellstrom* WHO (2006)- Epidemiology and public health  
Causation of disease

#### FOOTNOTE

1 A.U-An astronomical unit is the standard unit used as a yardstick to measure astronomical lengths. In astronomy this is the distance between the sun and the earth-149 597 870 KM, or casually 150 ,000,000 KM.