



A Successful Pace towards Sustainable Development: Biological Approach Managing Energy

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Abstract: Somebody has rightly defined the energy in his very simple way that energy is the ability to do work, but I must not miss to say here that Energy is the thing on which the wheels of the development of any country depends. As much as the wheels of energy turns, more and more the country will prosper especially the case of India which is the seventh largest country in the world where the population is increasing drastically and that's why is on the verge of extinction of disappearance of conventional fuels like coal, oil, and natural gas as these resources are very finite and if this will be on use in same manner as in current scenario then will be no more available in the near future. So the better, reliable, alternative of this is the more and more use of Non- conventional sources of energy which proved to be a milestone for the betterment of the society and citizens and by this the concept of mankind, humanity, and sustainable development will be retained. The major sources of Non-conventional energy are: a. Solar, b. Wind, c. Tidal, d. Geo-thermal, e. Biological Energy. My present paper focuses attention towards not only the Types of energy resources to be used i.e. Non- conventional sources but the Alarming question is "How much and way of Producing and Managing Energy?" So we are giving more attention towards the better and better exploitation of Energy through Biological Approach. *i.e. Use of Bio energy.* The Major Sources of Biological Energy are: a. Natural Vegetation, b. Energy Tree plantations, c. Specific Energy crops, d. Wastes-solid, e. Water Based Biomass. The substitution of fossil fuels by Biological energy such as biomass energy sources has a number of Environmental advantages with few exceptions. Since Biomass contains little or no sulphur, so the acid emission of sulphur compounds is avoided. Similarly the production of Nitrogen- oxide can also be reduced considerably. During past two decades enormous efforts were made to harness Bioenergy sources in India to meet up the growing demand of energy for domestic use in particular, as such Department of Non-Conventional Energy Sources (DNES) under the Ministry of Power and Energy was set up in 1982. So the urgent need of the day is to implement the process and use of Biological energy in our day to day life to make our Environment Pollution free and our country self dependent and reliable in this field.

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