Renewable Energy Source: Renewable Policy In Australia:

1) Introduction:

For the better use of the resources available to the human people divide the resources into two types one is renewable and the second is non-renewable resources. Renewable resources are those which can be repeat use for more than one time and these are produce by the nature. On the other hand, the non-renewable resources are fossil fuel which contain coal, petroleum product, natural gas etc. while in the list of renewables are the solar energy, wind energy, tidal energy etc. To conserve the resources for the future or of the next generation the resources use by human now are days should be regulated the issue or challenges related to these and the solution is needed.

2) Renewable Policy in Australia:

The use of renewable resources in Australia increases day by day the government try to meet the target that they have for the environment or health by the use of the renewable resources of energy. For that the policies are comprised of the three main point.

Reporting- related to the total amount of energy produce and the total consumption of the energy and also related to the greenhouse gases emission.

Emission reduction Fund- Government allow those projects or register those which have the least emission of greenhouse gases or less effective for the environment.

Renewable energy Target- On the large scale as well as the small-scale use or implementation of the project that use the renewable resources to produce/fulfil the energy.

3) Issues or Challenges to Western Australia

Carbon Emission

Most of the industrial waste is in the form of the carbon compound these wastes can be used in the burners to get energy or the compound can be oxidized to get other forms of energy. In the form of carbon, methane is the largest compound present in the industrial waste it is flare to the environment except methane carbon dioxide also present in the waste or produce from the oxidation of the methane if partial oxidation is conduct then its produce carbon monoxide rather than to carbon dioxide. Simply the production of the any carbon compound cause the greenhouse effect it will directly relate the environmental issues so by the use of natural resources like the renewable resources these issues can be solve the emission of the carbon compound can be reduced. The graph below shows that the emission of CO_2 in the tones by the different sources of the waste like from the industrial process, agriculture or from direct combustion. The study is carrying for the year of 2030 to judge that after some time the effect of the carbon emission will be like this.

After the use of renewable resoles to meet the energy requirement of the nation the carbon from the fugitives, transport or other sources discuss earlier can reduce. The energy requirement can be fulfilled by the use of the natural resources available by the Western Australia.

Policy Challenges.

There are many uses of renewable resources but there are some issue regarding to the survival of humanity, service reliability is the issue for renewable resources when these resources have used the utilization of electricity is reduces and get out of the grid and reliance on the renewable resources. There is another issue which is that how much time spent on this infrastructure is not product, if so then the whole infrastructure will change like the use of batteries, cars and other domestic as well as the industrial appliances.

Lack of Support

To shift the technology from the local use of energy the to the use of the new and advance technology which involve the use of natural resources or renewable resources the industrial need the support of the government in the form of laws which will allow them to use the renewable resources with the advance technology.

Critical Research

All type of energy resources has some impact on the health and the environment but fossil fuel like natural gas, oil and other think like that are more harmful than the currently using renewable resources. They raise the issue of water pollution, greenhouse emission, wildlife, air pollution and habitat loss. The issues created by the renewable resources and limited and it depend upon the use of the technology type if the old technology is used then the consequences are different.

Wind Energy

The biggest issue for the use of the wind as an energy carrier is that it new the flat land for the turbine. Wind with high energy is needed but the infrastructure is not needed as such high land area. According to the united states if one megawatt of energy is producing then the land needed for this is only 30 to 141 acres. These types of project are a direct threat to the wildlife when the bird is flying, they collide with the wing and they die it will reduce the number of the wildlife in that particular area. The anima is migrated but according to the National Wind Coordinating Committee (NWCC), it is not a big threat to the wildlife.

Solar Energy

There is some issue with solar energy which is that it covers large area of the land for solar cells. It is not using the water to produce the energy but a large quantity of the water is use for the cooling purpose when a large amount of the heat is extracted from the system then a large amount of water is use for the cooling. The PV cell is made of hazardous material which will affect the inner part of the body. The chemical use is hydrochloric acid (HCl) sulfuric acid (H_2SO_4) or Acetone another chemical also use. But the outer layer is coated with some harmful chemicals like gallium- arsenide or cadmium - telluride etc. as such there is no direct global

warming emission but the sources like the material used, transportation, installation or maintenance cause this issue. Emission of the carbon dioxide in 0.07 to 0.18 pounds per megawatt.

Geothermal Energy

When the groundwater is use it have the sulfur salt which is collected in the pump and after that it disposes and it will affect the near rocks. There are two type of loop.

- Open loop
- Close Loop

In the close loop the hot gases that come from the earth are again sent back to the earth ground but when the open loop is used then the earth gases which contain the number of harmful gases is directly introduced to the environment the gases are hydrogen sulfite, carbon dioxide, boron, methane, ammonia etc. it also effects the life cycle when the hot gases drill from the well then it will affect the rock reservoir. It produces 0.20 pound of CO_2 per kilowatt which lead to global warming.

Hydroelectric Power

It also has the common issue of the land; a large area is required to store the water or a large volumetric flow rate with high elevation is needed. Wildlife is affected by this when a large area of with a large amount of water is used then there will be aquatic life present in the water like fish. They will die when they strike with the blade of the turbine. There is some advantage of the dam which that the community will safe by the flood, agriculture irrigation or from recreation

Main Points

As discussed earlier the impact of the renewable resources of nature and technology on the environment. This include the study of the project with it side effect on the health of human, the cost of the product produce form it and the future of the wildlife and how it is effect or die from it.

Conclusion

Human needs energy for their survival and we need a source of the energy some of the sources are permanent and someone limited so the use of a permanent source of the energy will be prefer ever. Renewable energy source fulfils the requirement for human with minimum loses. So, in the light of some environmental impact we should prefer the use of renewable sources. For the effect of these technologies, we adopt some other factor or theories.

Recommendation

The issue related to the use of renewable energy resources should be resolved for the solar panels the coated material can be change which have less hazardous and for the wind and the water hydraulic power the death can be control by screening the water and already reducing the wildlife in air and the water. The energy generated form these have fewer hazards and the rest

of the hazard should be removed.

Again Introduction

This essay argues that the impact of the renewable source of the energy on wildlife, the environment Technology and the economy of Western Australia. The study of the issue related to the individual of the source of the energy like dam, hydraulic power and wind energy. The study of the future of renewable resource in Western Australia. In the environmental study the global warming and greenhouse emission is the key point.

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