



جامعة الناصر  
AL-NASSER UNIVERSITY

## Impacts of the Renewable Energy

*Dr. Mohammed Al Muhtadi*

AUTHORIZED BY AL-NASSER UNIVERSITY'S RESEARCH OFFICE

جميع حقوق النشر محفوظة لمكتب البحوث والنشر بجامعة الناصر

## **Abstract**

The world is very concerned with finding a way to accumulate and use renewable energy. The population of the world is growing and countries that were once considered under developed are growing and these countries need energy. The earth has only so much oil and gas reserves and it will not be enough to sustain the world at the present rate of use. The Desertec Industrial Initiative is working to manage energy in the European market. Every nation is looking into a way to extend its reserves, using wind, hydro and geothermal energy sources.

The Sun is a primary form of renewable energy under study. Although this form of energy has been used for centuries, it is now presented with an official name. Trappers have used it to dry animal hides, fruits and indirectly heat abodes since the beginning of man. The sun is a powerful tool and it is free to anyone with the knowledge to harness it. Collecting the sun's energy on solar panels is a technology that is open to the smallest communities around the world.

## **Process of Renewable Energy**

This process was once a little expensive but due to the improvement of technology; it is possible for people to attach this process to their homes and businesses. The initial cost can be a little steep but the involvement of the government with rebates is making a way for homeowners to change over to this renewable resource. Scientists and nonprofessionals are developing new ideas everyday to make this resource an economically manageable reality.

The public is starting to use photovoltaic and thermal power to heat water. The earth is filled with heat and people are using this resource today for more than health rejuvenation. The public has flocked to hot springs for decades. They are all over the world but now man is tapping into these deep heated valves of the earth to heat home, turning it into usable energy. The use of these processes will help stretch the resources of the earth enabling everyone the advantage of having power. The price of fossil fuels is growing and a large number of people are unable to pay for

heat during winter's severe weather. The use of renewable energy will bring the cost of heating and cooling a home to a manageable level.

Once, only government entities used solar power. The idea is not new but is available in such projects as the Pokeberry solar plant. This facility uses panels, collecting precious energy from the sun. The world still relies heavily upon fossil fuels but the carbon footprint is slowly being reduced. Gasoline is now mixed with ethanol, which is a product of corn, which is grown. Other renewable energy sources are searched out each day, looking for the best or combination that works for man and the environment. The use of renewable energy sources have actually reversed the utility meters of some users. Leaving these homeowners with almost no utility expenses, beginning changes are costly but the financial impact is lessening.

With more home heating companies understanding the way of renewable energy, more homeowners are attempting to change over to this inexpensive way of heating and cooling a home. Customers are finding in the event of inclement weather, a backup system is preferred. Some areas find wind power a better solution than sunlight but a combination of renewable energy works to produce power. Water has been used to drive mills for centuries, turning grinding wheels. Renewable resources have simply not worked in the hands of the mass public. Living along rivers and streams in early years was a means of using renewable energy before fossil fuels became readily available.

Renewable energy is a splendid method to save on cooking fuel and a way for people to live in remote areas and still have the benefit of comfortable heating and cooling although they are outside of the main frame of cities and power grids. Homeowners are investing in hot water heaters powered by renewable energy, furnaces operated with solar energy and using lighting in and around the home operated by renewable solar energy. The American Solar Energy Society offers tours giving people an opportunity to see solar energy at work, showing them how they too can invest in this up coming technology.

## **Energy on households**

A home equipped with renewable energy resources will sell easily. This is the way the future is moving and the need for heating and cooling a home will not go away. The elements may become hotter or colder but in any event, energy is a necessity. Hydroelectric plants are used around the world. Countries are creating these power sources to power business and homes. Water is a renewable resource barely touched in some nations but once people are educated, its massive power will be more widely used. Water rains from the skies and flows through the

mountains. It leaves and returns offering a great source of renewable energy. Companies build reservoirs, diverting water to and from sources. This powerful energy source changes the land.

Renewable energy is the conversation of every nation and household. It is clear to the world energy in its standard sense is dwindling and the world must find a way of regulate renewable energy as a resource. Families are working hard to utilize every way to conserve. People are insulating and cutting back the thermostat because the costs of fossil fuels are out of control. Years ago, people would build houses in order to catch cool breezes and sunlight in winter. With mass construction, this is not always a viable option. People are living in high-rises and condominiums and sitting a building in a certain position may be against zoning laws. Finding and harnessing renewable energy is the only option. Some place in the world have only a short summer and exceptionally long winters, while other have very little spare land. This makes renewable energy a top priority for human survival.

In order to develop the energy the world needs, more plants are being developed and power companies are training more people to work with the community in the distribution of renewable energy. Homes constructed as an option for purchase with resources related to renewable energy products. Water heating systems might easily be installed in a conventional home. Roofers are trained to gauge the slant of a roof for customers interested in installing solar paneling. The world is re-educating itself for the necessity of using renewable energy. The cutting of trees and the polluting of the atmosphere is slowly failing as an option. Certain chemicals in the atmosphere are in need of reduction. This can only be done with a reliable and cleaner fuel source. This falls to water, sunlight and geothermal products.

A Hydroelectric system is able to supply millions of homes with power that is clean and reliable for years. This source of power was there in the beginning, and will continue to play a major role in the reconfiguration of energy resources. Almost every country in the world has tapped into its water sources for power. Early on, the Hoover Dam and plants along the Mississippi River gravitated to the power of water as an energy source. Some of the largest cities in the world could not function without the channeling of power from these renewable energy sources.

Relying upon coal, natural gas and other sources is slowly coming to a halt. These resources need time to replenish. The world has mined coal to the point of some infrastructures may collapse and others are stripped to the point of leaving the earth scared for decades. Some environments have yet to recover from the chemicals spewed into the environment. If renewable energy is utilized effectively, it may save resources and the environment.

The world is dependent upon energy and racing against time with a search for viable renewable energy. The earth needs time to replenish itself but cannot do it if man is constantly striping it of

its resources. Families and industry is dependent upon energy. Hospitals and manufactures cannot operate without it, so finding a secure source is important.

Investors are also taking an interest in the energy business. The same zest is given to the energy industry as the fossil fuel business. Oil was king and is still a primary factor in the energy business but it renewable energy is gaining ground on the once giant of energy. Renewable energy is what the world wants and needs. Important people in the business of fossil fuels are getting into renewable energy, careful to see the wave of the future. These companies are searching for ways to become apart of this new industry, enveloping what they have with the future. Many businesses refusal to change with the times have found themselves dinosaurs, left in the past while the world moved on. Smart business is not willing to let this happen to them instead accept and work toward the future, which is renewable energy.

Government has an input concerning the change over or combination of renewable and fossil energies but the public sector has a great deal to say about the matter. If the public and corporations are not willing to change or see the need for change, things can become difficult for everyone. Manufacturers will only change their products if the public refuse to buy. If people are willing to continue the road of using non-renewable resources manufacturing will never try to change to fuel-efficient products.

Water is a valuable commodity and people in different regions see water in a different light. Wind is a scarcity depending upon the time of year and so is sunlight. One primary question in these instances is storage. People lacking water as a major resource are not willing to utilize it for electrical power and people living in places with no wind movement may find this resource difficult. Every type of renewable resource is in need of a way to store it in times when the commodity is unavailable. This is true for sun and wind. Companies have found a way to generate energy for hybrid cars using batteries combined with fossil fuels. This is not a total solution to the energy problem but is a start on a more permanent solution. This system will evolve as other have with practice.

## **Energy Importance**

Energy is something the world cannot do without cooking is needed no matter what the environment or heat is necessary for winter weather. The danger of freezing in bad weather creates a search for options when energy is an issue. The fireplace and the burning of wood is still a popular option for many homeowners but the pollutants placed in the air and the stripping of forests creates an impact upon the environment. The use of trees creates soil erosion and depleting top soil. Each position taken on energy affects another sector. This creates a need to

weigh everything done in every part of the world in the development of any renewable energy source.

The building of the Dam in China displaced thousands, as did the building of Dams in the United States. Each reach at renewable energy will have a positive impact on some, and a negative impact on others. However, due to the environmental state of the planet the negative impact may be short lived considering the alternative for future generations.

Every sector is affected by the change in attitude towards the environment. Some countries have utilized the comforts of fossil energy longer and are willing to make the change to renewable energy while others are reluctant to do so. Developing economies are only just now finding the resources to operate in a fossil economy and the transfer into a solar or geothermal environment seems rather difficult.

The search for new technology is reflected in the way people spend money, in the stock market and in developing countries around the world. The use of the Internet and educational outlets are providing the means for people living in the most remote countries to make the effort at using renewable energy. Fossil fuel is creating a carbon footprint the world will not be able to sustain. It is time to change or at least lessen the impact. This can only be done with renewable energy.

It is essential to the growth and survival of the planet that the world finds a renewable energy source that works. This is not a decision of desire but of survival. Resources are being depleted at an alarming rate and the use of fossil fuels is becoming dangerous to the health of the population. Fossil products need chemical changes in order to be useful and the residue left in the environment is not the best for the health of the population. Industry has worked hard to manage any pollution but the necessity of disposal leaves the soil and water damaged. If the process escalates rather than de-escalate, the environment and the public may suffer damage that cannot be erased.

## **Conclusion**

Renewable energy is clean and serves the same purpose as fossil fuels. Hydropower saves on many fronts and is under major discussion around the world. Cities and manufacturers are using light bulbs that last for years and cities are passing emission laws all to reverse the damage inflicted upon the environment by the use of non-green elements. Technology is growing and the improvement of the environment is growing with it. Plastics are being used as fuel offering a positive way to return some of the elements taken from the environment. Renewable energy is a way of stopping the drain on natural resources.

The switch to renewable energy will take the cooperation of the whole world. Each nation takes care of itself but in the case of renewable energy and its global effect, it is impossible not to consider the positive or non-positive results on every nation. The Internet has made the world a smaller place. It is no longer possible to ignore any devastation in any part of the world. Photographs fly with the speed of light and not seeing the pain of others is no longer possible. The search for renewable energy is global and so is the need.

#### REFERENCES:

- University of North Carolina at Greensboro. "Types of Research Methods".

*SERVE*

*Center.* University of North Carolina at Greensboro.

- V Energy Powers . "Business Summary". *India Business Profiles*. [http://www.indiacatalog.com/profiles/entertainment/villart\\_photography .html](http://www.indiacatalog.com/profiles/entertainment/villart_photography.html)

- Rouse, Margaret. "SMB (small and medium sized business or small and midsized business)".

*SearchCIO-Midmarket*. <http://searchciomidmarket.techtarget.com/definition/SMB>

- <http://businessjournal.gallup.com/content/158423/small-medium-sizedbusinesses-grow.aspx>

Opening-a-small-business. Bobby Thompson. <http://www.opening-a-small-business.net/the-author.html>

