

Provide access to clean water

Introduction

Access to clean water has been a challenge in many parts of the world. Approximately ^{fifty} 50 percent of the world's population is unable to access clean water. A ^{large} ~~big~~ of percentage of people who cannot access ^{we} ~~to~~ clean water ^{are} ~~is~~ located in developing countries. ^{On the contrary} ~~Contrary~~ to the developed countries, developing countries are faced with social, political and ^{economical} ~~economics~~ challenges that hinder development and implementation of appropriate policies for solving water challenges. Water problems have led to waterborne diseases in ^{majority} ~~many parts~~ of the world. These waterborne diseases are responsible for many deaths across the globe ^[3] ~~(3)~~. Water can be used for industrial, agricultural and domestic purposes. There are few ^[1] ~~quality~~ issues ^{use} ~~as far as water~~ agricultural and industrial use ^{are concerned with} ~~is concerned~~. On the other hand, critical analyses of the water problems show that there is a big problem as far as water for domestic use ^{Concern} ~~is concerned~~. So, the big question is: What is the solution to the water ^{Crisis Research Shows that} ~~problem?~~ ~~Well, research,~~ use of appropriate technologies and partnerships can help solve water problems by ensuring access to clean water in areas that have ^{a water crisis} ~~water problems~~.



Methods of solving water problems

Engineers are important professionals who ^{are able to} ~~can~~ solve water problems. Engineers have the ^{understanding} technical ~~know-how~~ as far water issues are concerned. As a matter of fact, ^{of} ~~engineers in the field of~~ environmental and civil ^{as} ~~engineering~~ ^{engineers} have been trained on how to design systems in effective treatment of water. ^{Engineers} ~~Moreover, engineering~~ have been trained on how to design systems that can help for treating wastewater. According to Gorman ² (1), engineers are supposed to work with communities and nongovernmental organization to help ^{solve} ~~in solving~~ water problems especially in developing countries. Appropriate technologies should also be developed to offer solution for water problem. Membrane technologies have been used for long time for purposes of removing salt and minerals from water. Tirrel ³ (2) believes there is need for more research to be done on the existing technologies to make them affordable, effective and efficient. ^{However} ~~Moreover~~, research work should be used when it comes to actual implementation of technologies. ^{This should help address water issue in a holistic manner.} ~~This will help to address water issues in a holistic manner.~~

Results

Application of water treatment technologies has helped to solve water problems in many countries. Application of Nano technologies has helped many people in many developed countries to access clean water. According to Tirrell ³ (2), research by scholars in different field of study has helped to come up with good technologies for water treatment. Partnerships between professional engineers, universities and communities have led to increase in safe ^{drinking water} ~~water for drinking~~. ^{However} ~~Moreover~~, distance for obtaining water for domestic purposes have been shortened significantly. Gorman (1) believes partnerships have improved standards of living because communities can use money that was made for payment of treatment for water related diseases to improve their lives.

Conclusion

In conclusion, water problems are affecting many people in the world. Many people have lost their lives as a result of water related diseases. However, engineers, scientists and ~~other~~ professionals are doing their best to address water issues using the limited resources. In this regard, there is need for political ^{improvement} ~~will improve~~ on partnerships for purposes of solving water challenges in a comprehensive manner. ^{improvement} ~~This~~ will lead to significant reduction of number of deaths that are caused by waterborne diseases.

References

- [2] (1) A. Gorman, "Engineers Without Borders-USA Volunteers Work to Improve Access to Clean Water," *Ground Water*, 357-359, May-June 2010.
- [3] (2) M. Tirrell, "Collaborative research projects aim to make clean water more accessible," *Membrane Technology*, 8-9, June 2015.
- [1] ‡ (3) NAE. "GrandChallengesforEngineering," (Online). Available: <http://www.engineeringchallenges.org>.
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