

Research Brief – Harnessing Natural Energies
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We as human beings are heavily dependent on electricity and gas for our daily needs. The free availability of electricity and gas enables us to live comfortably in adverse weathers and also travel effortlessly. With the increased use of electricity and gas, the global temperatures have increased significantly which have changed our climate during the past few decades. Researchers are concerned with the rapid climate changes and fear that the changes could make our planet inhabitable for future generations. As a result government agencies around the world are looking for options that can reduce our dependence on electricity and gas. In the US, the Department of Energy and the Environmental Protection Agency have been supporting efforts that could reduce our dependence on electricity and gas while trying to utilize alternate forms of energies.

Many forms of energies freely exist in nature. These are also known as clean energies because they do not have any negative impact on nature. These include energies from sun, water, wind and various other forms of energies. These have a great potential of replacing our traditional energy dependence on electricity and gas but currently many forms of these energies remain unutilized. If these energies can be harvested our planet can become cleaner and we can get rid of climate change.

At California State University Fullerton I have focused on developing some prototype for clean energy products. The product is in conceptual stage but will be multidisciplinary and might get a student to work with researchers in Mechanical Engineering, Electrical Engineering and Computer Science and Production Engineering.

I have been working on this project since one year now. The work that a student does could be used for journal papers to strengthen any future grants.

If this work is supported through Students International Research Institute (SIRI) students will get a first-hand experience of research work in developing a prototype of an energy efficient product.