



When Ideas Flow, Villages Grow

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Introduction

In 21st century living without electricity is horrible. But in Pakistan one third of population is living without electrification. Any government is not able to provide electricity everywhere like villages on mountains, valleys, deserts or islands even in developed countries. Our distribution companies are not able to maintain the installed grid system. We have a big gap between demand and supply of electricity. Therefore it is not possible for them to keep alive grid 24/7. Electricity is playing an important role in our daily life by improving our production from pumping water for cultivation to grinding grains, sewing the clothes, helping to gain and increase knowledge, creating comfort for us, breaching the distances, socializing us, giving opportunities to enhance our light time. 33% of population is less productive because it doesn't have schedule in hands which is subjected to sun light. Renewable energy can enhance their productivity.

Off-grid System as an Alternate Source of Generating Electricity

Off grid system is local production of electricity through solar, wind, bio etc. It is essential for population in scattered villages of Pakistan to generate electricity (not depending on grid) through solar, wind and bio because all the sources are available on door steps. Electricity can be produced even by rotating denmo with gear using animals. It is ultimately low cost because the sun is shining brightly, wind is blowing, bio fuel is available, space is there and requirement is limited. A small village Danu Dandal near Nagar Parker Distt. Mithi a small solar unit is installed which has capacity of 80 watt 5 watt each solar plate. The owner of unit Qasim Solengi is earning through recharging the mobile batteries and also providing solar LED light for his Chora (straw hut)and providing wifi facility for the smart phones and laptops. They listen news, songs and take information through radio charged by solar unit and use Whatsapp and Viber and many more. He is planning to upgrade his system for TV and dish antenna also. This example shows that without depending on grid we can grow.



Data Collection

Before survey I discussed with my teachers, my father and some of the concerned persons. I designed a questionnaire with name, address, ph no, field, 10 questions and 22 checkboxes. Moreover there was an option for their comments. Then I approached 25 persons with different fields of life. I felt people were amazed by this type of survey from a student of class six. All the people show full cooperation although many of them were not aware with all forms of renewable energy like wind and bio and had lots of questions about them .I tried to explain with my best knowledge in the native language also. In my locality people are aware about solar units. People know that rural areas are suffering from low electricity but they don't bother. They think that it is only responsibility of government .After discussion and survey the concept is changed now.



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Analysis Sheet For The Poster									
The teacher Nomana Qudsia analyzed data to know how students shared their ideas. Information was gathered related to create awareness and knowledge of people about renewable energy in areas without grid system. A questionnaire was designed and personally filled on their responses.									
Serial No.	Gender	Age	Occupation	Education	Religion	Language	Religion	Religion	Religion
1	Male	15	Student	10th	Muslim	Urdu			
2	Female	12	Student	8th	Muslim	Punjabi			
3	Male	18	Student	12th	Muslim	Urdu			
4	Female	16	Student	10th	Muslim	Punjabi			
5	Male	14	Student	9th	Muslim	Urdu			
6	Female	13	Student	7th	Muslim	Punjabi			
7	Male	17	Student	11th	Muslim	Urdu			
8	Female	15	Student	9th	Muslim	Punjabi			
9	Male	16	Student	10th	Muslim	Urdu			
10	Female	14	Student	8th	Muslim	Punjabi			
11	Male	15	Student	11th	Muslim	Urdu			
12	Female	13	Student	7th	Muslim	Punjabi			
13	Male	17	Student	12th	Muslim	Urdu			
14	Female	16	Student	10th	Muslim	Punjabi			
15	Male	14	Student	9th	Muslim	Urdu			
16	Female	13	Student	7th	Muslim	Punjabi			
17	Male	18	Student	12th	Muslim	Urdu			
18	Female	15	Student	9th	Muslim	Punjabi			
19	Male	16	Student	10th	Muslim	Urdu			
20	Female	14	Student	8th	Muslim	Punjabi			
21	Male	17	Student	11th	Muslim	Urdu			
22	Female	13	Student	7th	Muslim	Punjabi			