

# When Ideas Flow, Villages Grow

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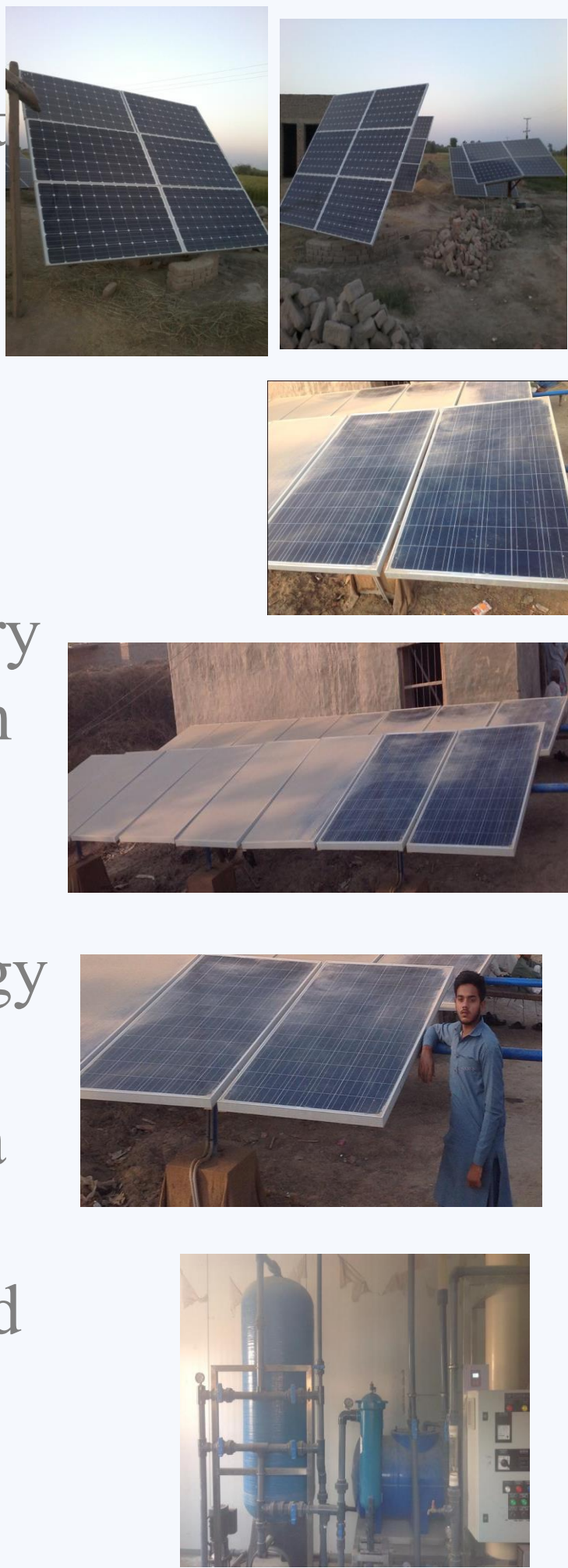
## Introduction

Electricity play a substantial role in our daily life both professional as well as personal life. Electricity is essential that people cannot live without in modern day .Without it, Life will become very much difficult and sluggish. About 45% household in Pakistan have not access to the electricity , and these electricity deficient areas are mostly rural . Due to lack of supply of electricity to the rural areas , the villagers thus face huge difficulties as they are being living an ancient life in this modern world. The key to resolve these problems is to make possible the supply of electricity to these areas . There is not only the National Grid system to supply electricity to these areas , There is also renewable energy such as, wind , water ( Turbine , Tidal )and sunlight. These are the alternate and be the easiest for villagers as well as are environment friendly techniques rather than non-renewable energy which are hazardous to the environment, the techniques used in producing non-renewable energy emit green house gases , these green house gases are the cause for being holes in our Earth's Ozone layer which protects us from ultraviolet rays of sun , and the main causes Global warming.

## Off-grid System as an Alternate Source of Generating Electricity

Off-grid system means generating electricity at your own without connecting with the any Grid system via renewable energy , such as wind , water, and sunlight. The energy produced by Off-grid system can full fill the necessity of electricity of the rural areas . According to the survey 44% households in Pakistan are not connected to grid. And more than 80% are in rural areas , Where survey found that 30 to 45% of household use kerosene as primary or secondary source of lighting. Some use candles due to the high cost of kerosene. Promoting renewable is the best solution to the energy crisis because lighting off-grid households with solar requires only a one-off cost and effort .So investing in solar energy is much more better than investing in dams and exploration for fossil fuels , it avoids green house gas emissions , and provides a more reliable supply of power.

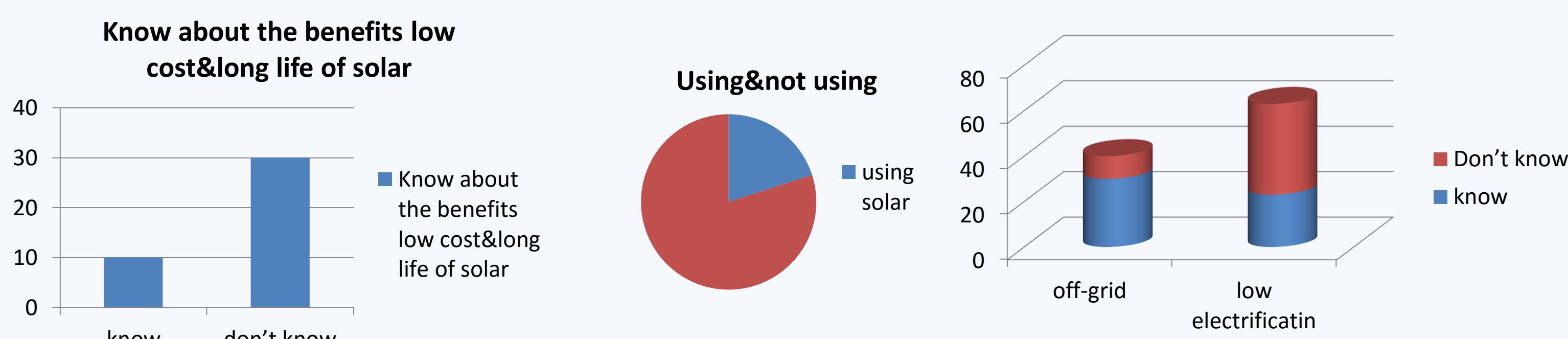
I have visited a village 'sunahri' in Naushahro Feroze district and saw the solar that villagers are using shown in picture the villagers are also using a water plant on solar..



## Data Collection

I surveyed some of my neighboring rural areas and took a short interview from 40 peoples and asked questions from them that (1) Do they know about the off-grid system (2) Do they know the low electrification rate of electricity (3) are they using the solar cells for electricity (4) Do they know about the low cost, benefits and long life of solar cells. So, among 30/40 people know about the off -grid system ,23/40 know about the low electrification rate of electricity , 8/40 are using solar cells for electric power ,10/40 knows about the benefits , low cost and long life of solar cells.

So , I conclude from my survey that , most of the peoples in my neighboring rural areas know about the off-grid system , but very few of them are aware of the low cost, long life and benefits of solar cells



## Creating Awareness

Very few peoples are aware in rural areas about off-grid system. So creating awareness among them about importance of off-grid system is really essential. Peoples of rural areas can be awared about off-grid system through:



1- public announcements, villagers can be attracted by the announcements and can be consulted about the off-grid system, 2-secondly through the visits of 'Otaque' of the villages where the head of the village and the peoples sit together , through telling them about the off-grid system and how it works and what are the benefits you can get by using off-grid system, we can present modules , which works on solar or other renewable so that peoples can watch it works and this can motivate them more effectively. 3-In the villages, people held the annual village fairs, festivals . We can arrange stalls, penaflex ,posters in the fairs ,people will see those and attracted towards off-grid system and its benefits. 4-In villages we can arrange the seminars in the schools, motivate and consult the villagers , students , farmers as well. We can create awareness among the peoples of rural areas through these methods.



## Impact

I have visited some rural areas and I have created among the villagers awareness about the off-grid system and the solar as renewable energy. More than 80% of the people are convinced that they will think about the off-grid system and its benefits, and will install the solar at their homes , in their farms , in their shops . Some people found an establishment and became unite to install the solar power system combined at a large plane, so the whole village could take benefit as there is no access of National grid system. Peoples became happy through our ideas and suggestion and thanked us because we had created among them awareness and put them out of the ancient life style and provide them opportunity to reach at the door step of the modernization.

Through this activity I had learnt about the renewable energy and its benefits , and also the hazardous effects of non-renewable energy and its impacts on our life and the environment.

A boy showing his family's first solar plate which they use to light a bulb and a fan.



## Reflection

Definitely the day will come when all the fossil fuels are end off , and we will only depend upon the renewable sources at that time I will feel safe so that I had got an alternate source of getting energy, Electricity which is now the backbone of our life style , in future it will not be affected .We should invest our resources in the research of getting electricity through non renewable sources instead of spending on search of fossil fuels

Solar power will be the alternate source in coming future for the electricity generation. In future we can become independent of the National grid system through these techniques (solar , wind , water). The fossil fuel is day by day decreasing and our consumption is day by day increasing, I feel my future secure because I have achieved success to find the alternate of generating electricity..