

Solar City Project Planning



Solar City

This project is based on the concept of Solar Energy and how that energy can be efficiently used in day-to -day life.

Creating a concept model is necessary so as to understand the basic need of Solar Energy and how it can be useful on large scale.

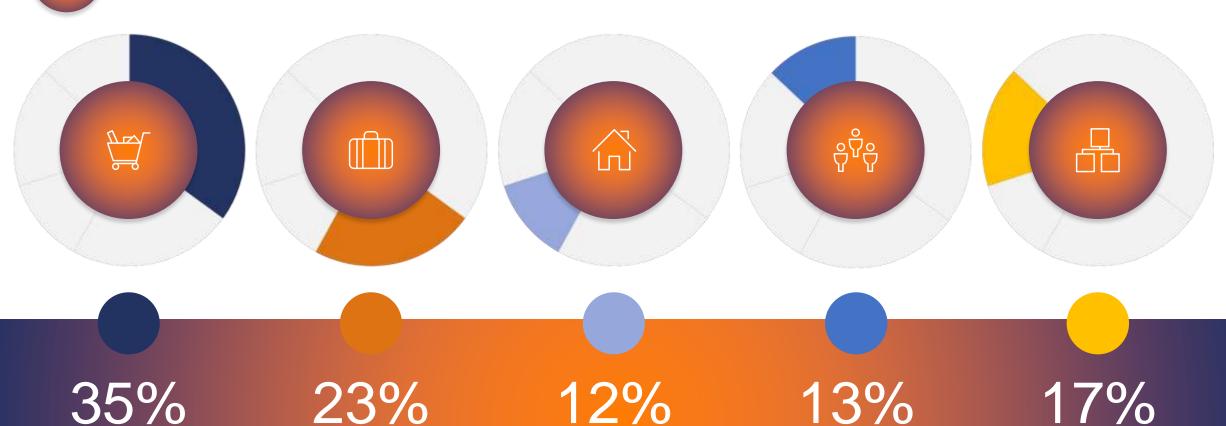
Members:

- 1 Pratik Pingale (19CO056)
- 2 Sagnik Roy (19CO061)
- Rohan Dayal (19CO060)
- Tanay Zope (19CO074)
- 5 Yash Tatiya (19CO067)

Project Plan







35%

23%

SOLAR **PANELS**

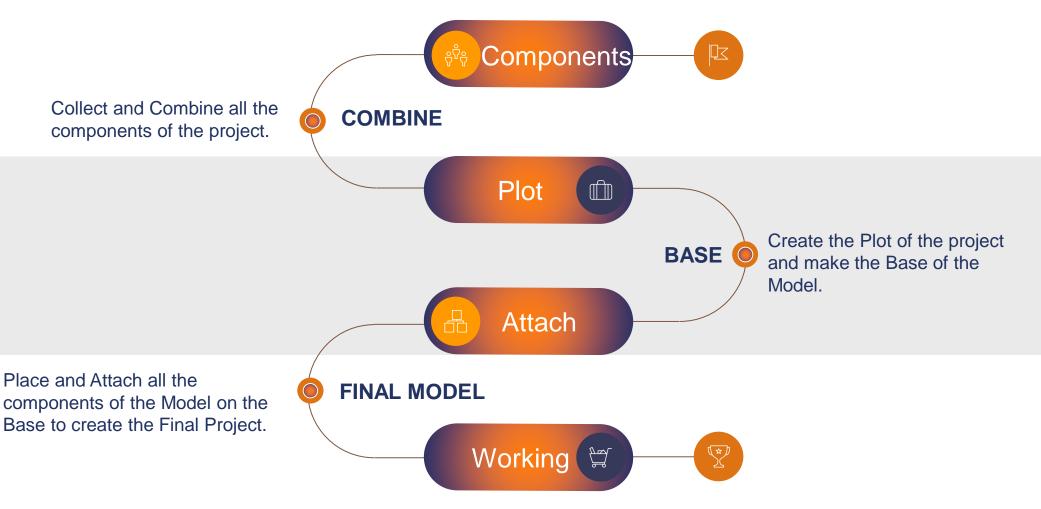
AC/DC **CONVERTER**

HUMAN CONTRIBUTION

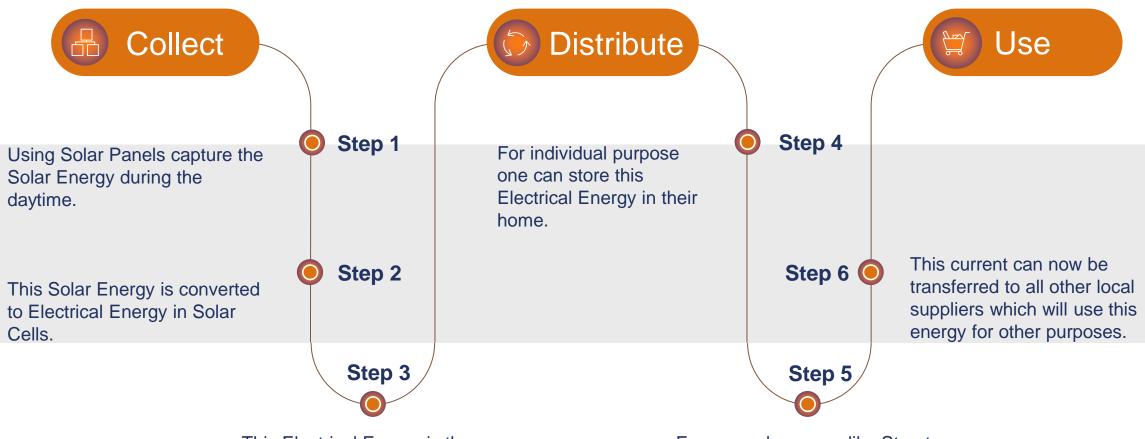
CHARGE CONTROLLER

Vogel Gryff begeist

BATTERY







This Electrical Energy is then stored in Batteries or any other storage device.

For general purpose like Street Lights, this Electrical Energy is transferred to near-by Power Station



SURVEY OF INDIA

INDIAN ENERGY CONSUMPTION



8.8 Mtoe

Nuclear energy i.e. renewable energy source



SOLAR

15%

27.69 Mtoe

Solar energy source, the main focus of our project currently provides almost equal supply as hydro power



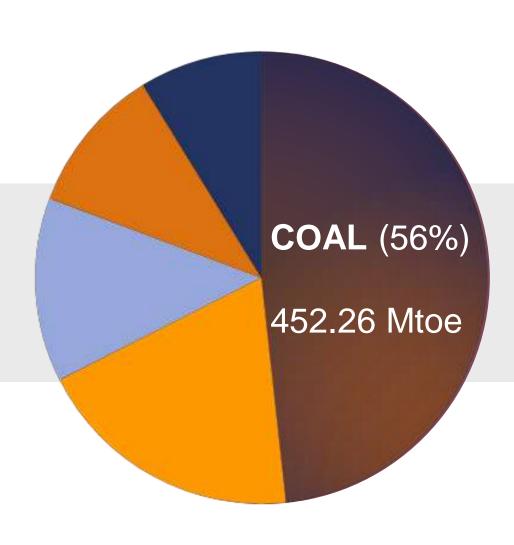
31.86 Mtoe

Hydro electric source of energy is one of the major renewable energy source



289.9 Mtoe

Crude oil and natural gas i.e. non renewable energy sources





SOLAR ENERGY USES IN OTHER COUNTRIES







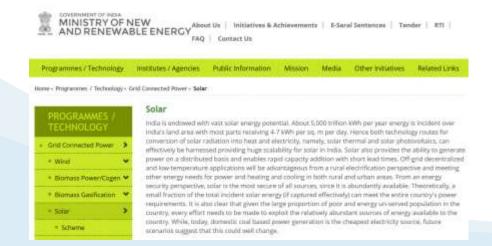


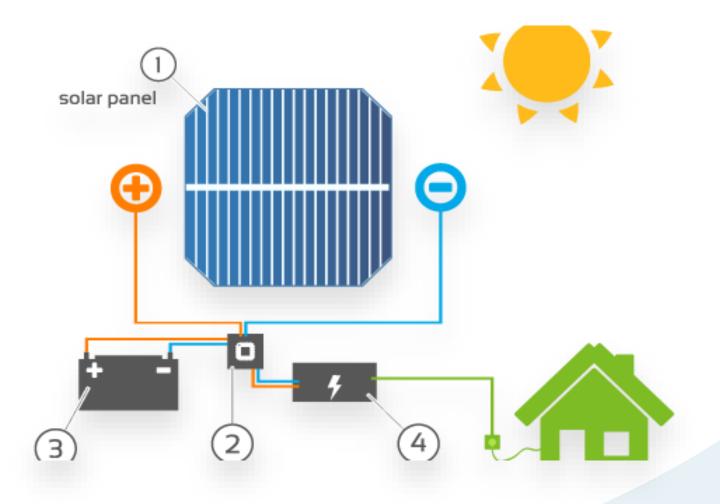




DOCUMENTATIONS AND SOURCES

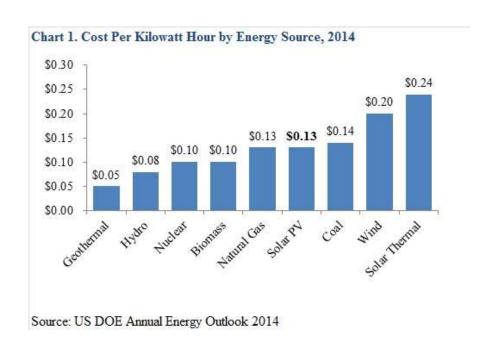
- http://www.quora.com
- http://www.seminarsonly.com
- https://www.encyclopedia.com
- https://www.alldatasheet.com
- https://mnre.gov.in
- https://seci.co.in

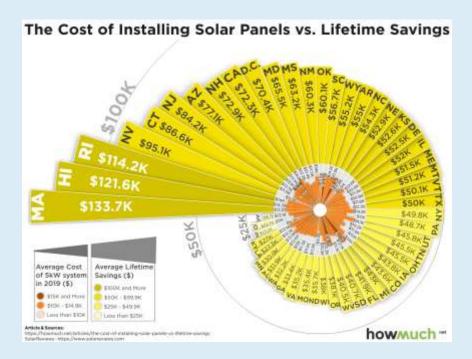




ADVANTAGES

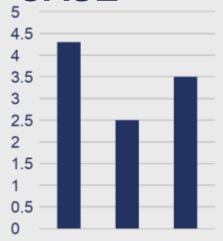
- As it is Renewable energy source it is an infinite source.
- Solar energy is quite Energy Efficient as we will see now.
- As Energy Efficiency increases Cost Effectiveness also increases.
- Use of Solar energy is quite Diverse.
- Effect of Solar energy on our environment is quite low.







BUSINESS CASE

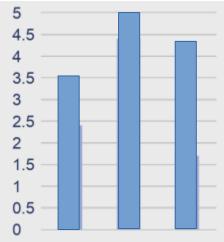




Per kWh









30%

CONCLUSION OF THE PROJECT PLAN

- Successfully reduce the cost of clean energy.
- Set up charging station for fleet of fuel efficient vehicles.
- Accurately brought down homeowners electricity bill per month.



- Serves 14 states, 25000 customers with 25 local operating centers.
- Helps the environment by wasting less energy and requiring less new energy production (energy efficiency).
- Recognized with environmental leadership awards by Aspen Institute and Actera.
- Recognized as the a Green Power Supplier of the year by DOE in 2010.





