

# SAURYAJYOTI RENEWABLES



## SOLAR TREE



**Submitted To:  
BREDA**

**Submitted By:  
SAURYAJYOTI RENEWABLES PVT LTD**

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# WHAT IS A SOLAR TREE

- A solar tree is a decorative means of producing solar energy and also electricity.
- It uses multiple no of solar panels which forms the shape of a tree.
- TREE stands for

T= TREE GENERATING

R=RENEWABLE

E=ENERGY and

E=ELECTRICITY

# SOLAR TREE??

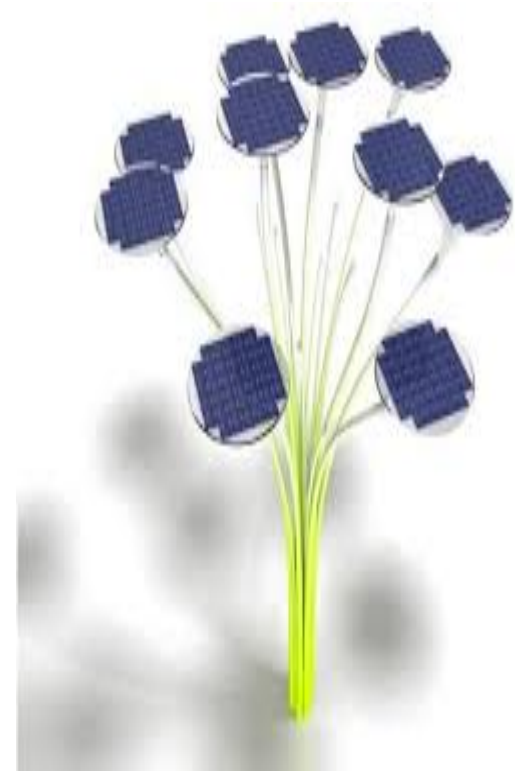
- As we know trees are present in nature and they can produce their own food material by the process called PHOTOSYNTHESIS.
- By this process they are indirectly providing food to the human society because we are depending on the green plants for our food directly or indirectly.
- Solar tree: This is a tree in which the stems connected acts as the branches of the tree and the solar panels are like the leaves

- Green leaves are producing food materials for human beings likewise this leaves are producing energy for the society. So it is very appropriate to called it as a tree.



# COMPONENTS OF SOLAR TREE

- Solar panels
- Inverter
- Batteries (if offgrid/Hybrid)
- Structure for connecting the panels



# SPIRALLING PHYLLOTAXY

- It is the unique technique used so as to make sure that every cell gets equal amount of solar energy
- This has been mainly implemented so as to increase the efficiency of the plant.



# WHY SOLAR TREES??



Why Should  
we think about  
it??

- Due to less land requirement
- Efficient energy generation
- It can collect energy from wind if combined with micro-wind technologies



# ADVANTAGES

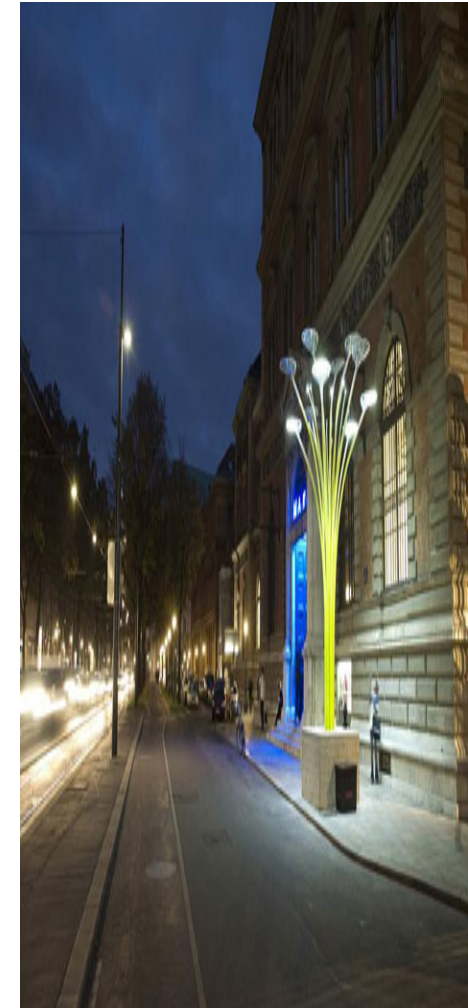
- No air pollution
- we wouldn't have to worry as much about future energy sources
- People in poor country would have access to electricity
- People can save money
- Land requirement is very less

# DISADVANTAGES

- Cost is high
- May cause hazards to the birds and insects.
- Hazards to eyesight from solar reflectors

# APPLICATIONS

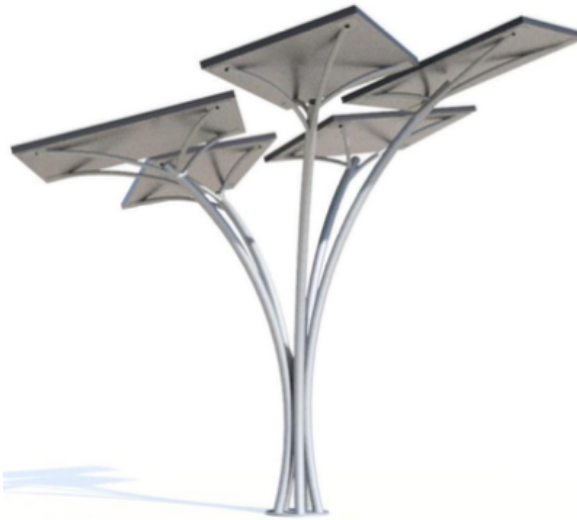
- **Street light.**
- **House supply.**
- **Industrial power supply.**
- **Continuous power supply**
- **Charging slots for cars.**



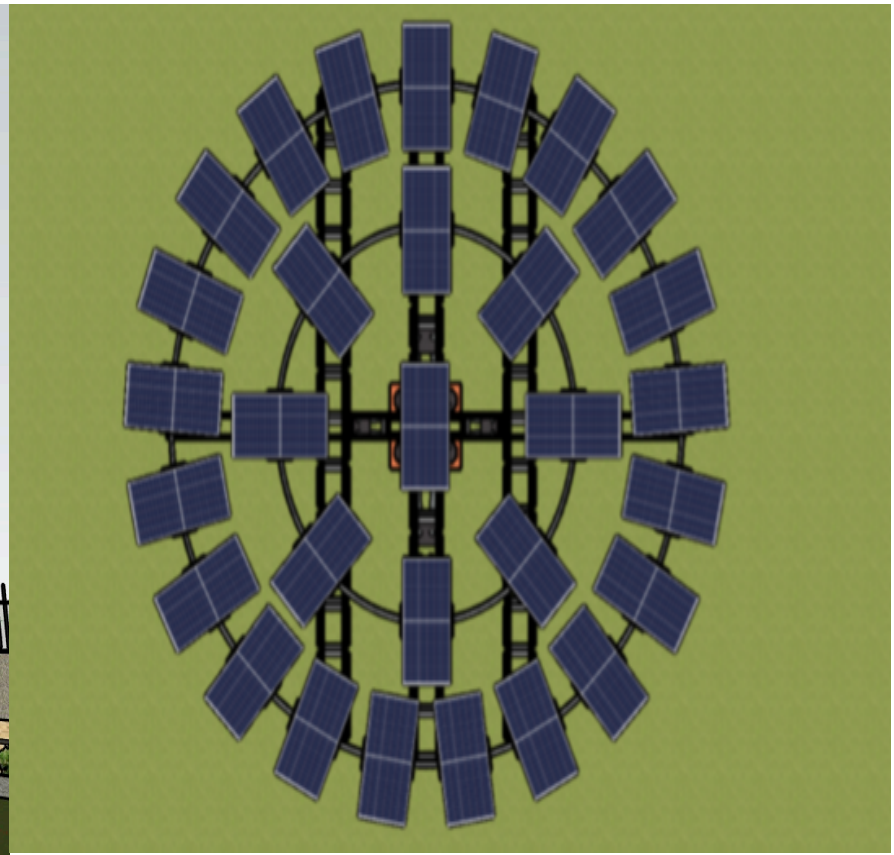
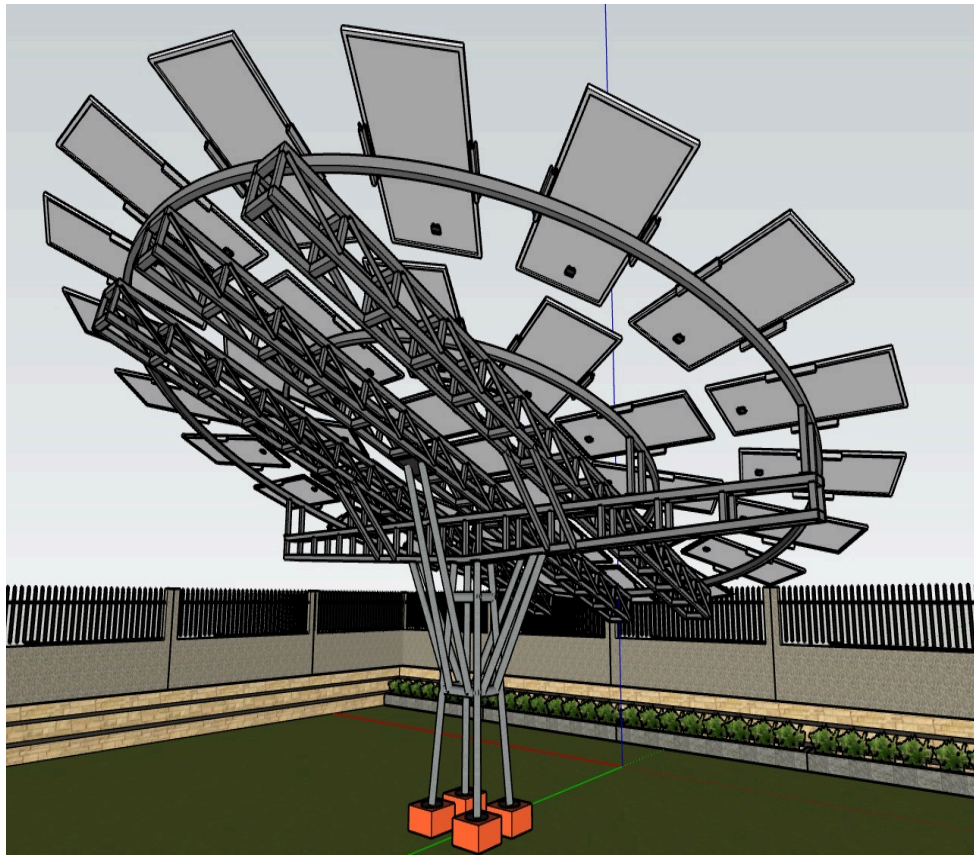
# CONCLUSION

- To fulfill the increasing energy demand the people and saving of land this project is very successful one. This can provide electricity without any power cut problem. The extra energy can be provided to the grid.

# DIFFERENT TYPES OF SOLAR TREE



# PROPOSED DESIGNS (15kWp)



# PROPOSED COSTINGS FOR ONGRID

SYSTEM	MODULES	INVERTER	APPROX COST (exclusive GST)
5kWp Ongrid	10 Nos 540Wp Modules	5kWp Ongrid (3P)	Rs 6,00,000
8kWp Ongrid	15 Nos 540Wp Modules	7-8kWp Ongrid (3P)	Rs 9,00,000
10kWp Ongrid	19 Nos 540Wp Modules	10kWp Ongrid (3P)	Rs 11,00,000
12kWp Ongrid	23 Nos 540Wp Modules	15kWp Ongrid (3P)	Rs 12,50,000
15kWp Ongrid	28 Nos 540Wp Modules	15kWp Ongrid (3P)	Rs 15,00,000



# GANAPATI GROUP

Conglomerate of M/S SAURYAJYOTI RENEWABLES PVT LTD and M/S GANAPATI PRODUCTS

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**Contact Us**





Thanks