



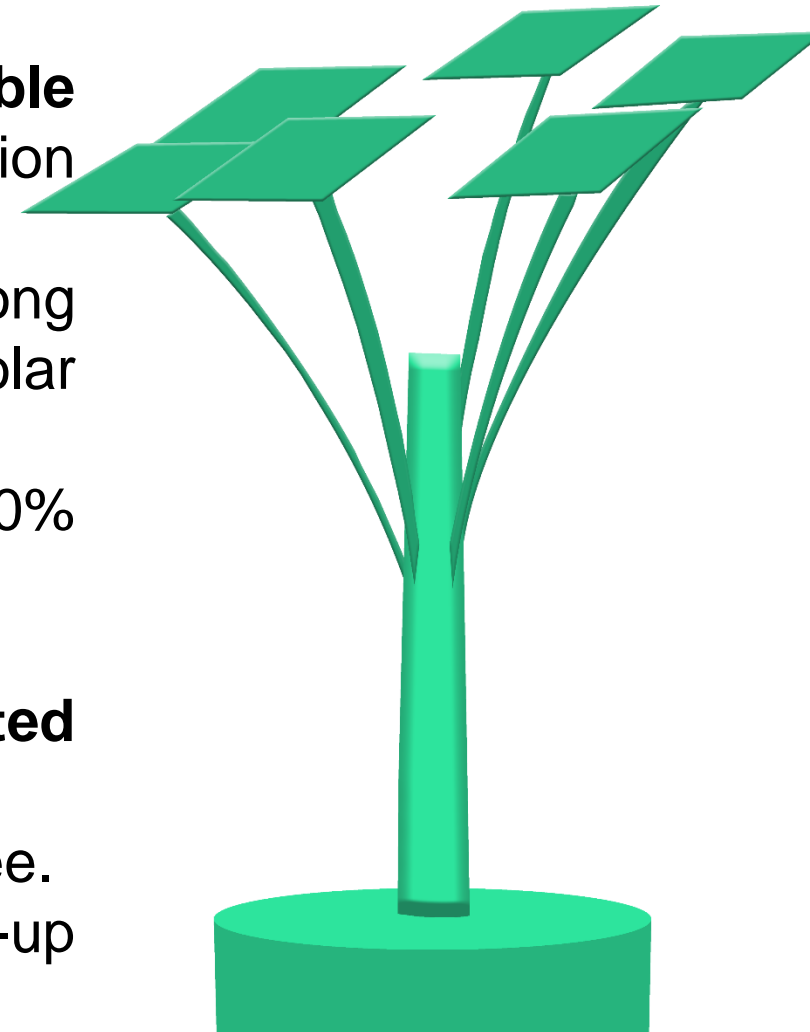
POWER TREE

Embrace the world of  
clean energy

[www.powertree.co.in](http://www.powertree.co.in)

# Company Overview

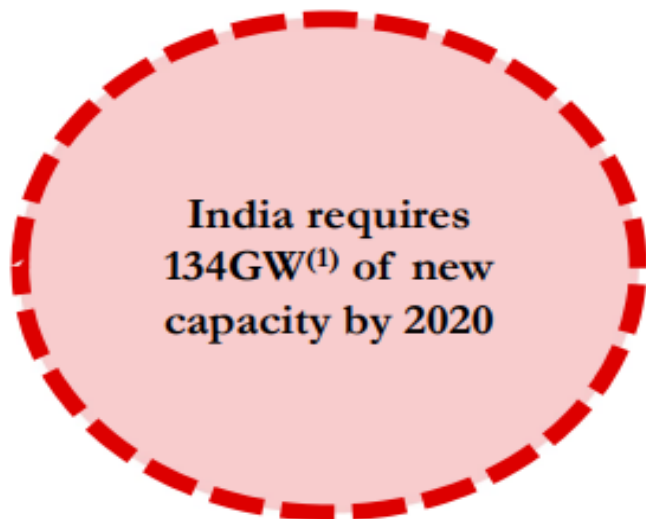
- Imagine Powertree is a Gandhinagar based **Sustainable Technology Innovation Company** incubated at PDPU Innovation and Incubation Center.
- We convert solar energy and technology in to a sculpture along with modernization, beautification and provide visibility to solar energy .
- Solves key issue of **space constraint** in solar plant (~ 90% saving).
- **Best start-up of the year 2018 for IP Culture by IPPO.**
- First time in India with power tree concept having **patented designs.**
- Highest power capacity(35 Kw) in the world from single powertree.
- Nominated for **Coffee Table Book of Vibrant Gujarat** start-up summit 2018 and felicitated by honourable C.M. of Gujarat.



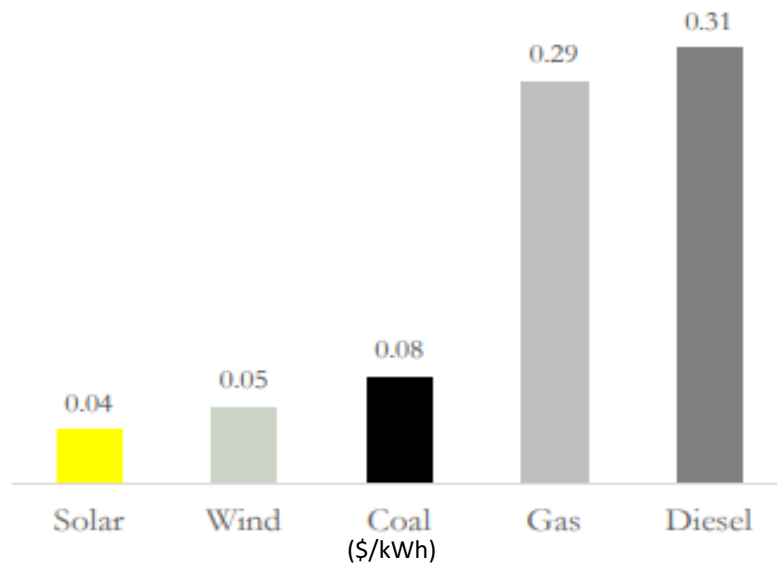


## Solar is the most affordable source of Power

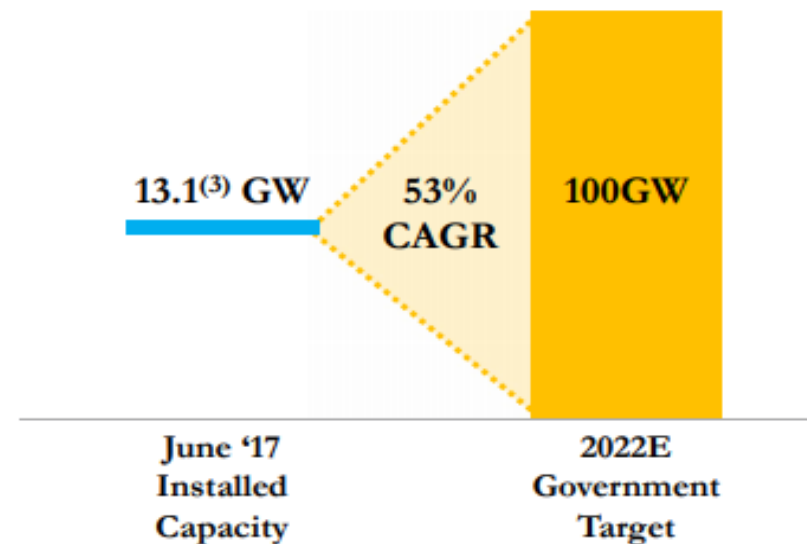
Solar Power is positioned to grow rapidly as a leading solution to India's structural power deficit



Fast growing Indian economy has outstripped its power supply



Imported coal sets the price of power



India's average solar irradiation amongst the highest in the world

## Solar Opportunity

1. World Energy Outlook 2015, India target capacity of 436GW by 2020. || MNRE, 2) Solar : Press release | Wind: press release | Coal: Press release | Diesel and gas prices based on the average of the range as per Lazard Levelized Cost of Energy Analysis, November 2015. in US\$ per kWh | Exchange rate- INR64.62 to US\$1 (New York closing rate of June 30, 2017), 3) MNRE

Do you Know,  
To fulfil the target of 134 GW, India will Require :  
**8,04,000 Acre**  
**of Dedicated Land**



1,49,103.39 Acre

5 Mumbai cities



3,66,704.4 Acre

2 Delhi city



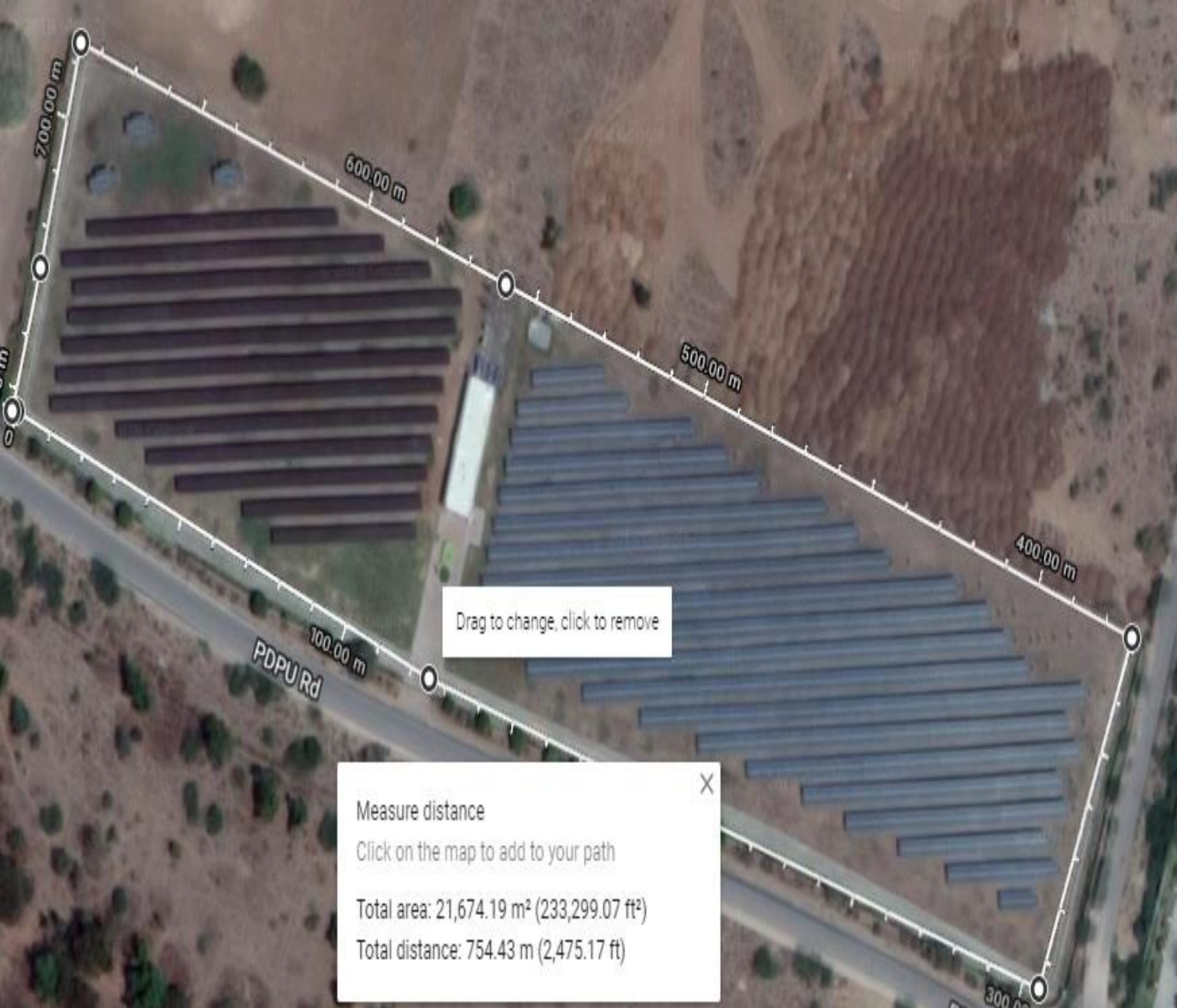
1,75,198 Acre

4.5 Bengaluru city



1,14,657 Acre

7 Ahmedabad cities



**Space Consumption :**  
754.43m or 21,674.19 m<sup>2</sup>

**Total Value Project:** 35 Crore

Land cost	Installation cost
Approx. 30 Cr. (current marketcost )	Approx. 5 Cr.

### Do you think

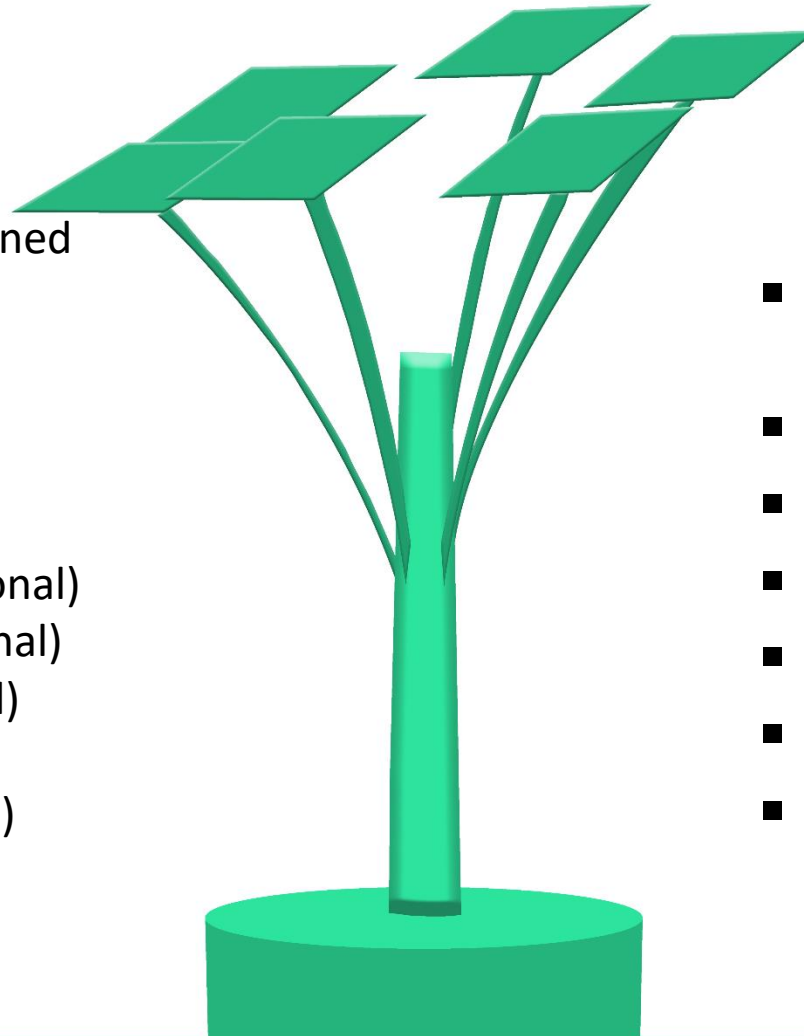
- Is it viable option to invest this amount of land cost for getting solar power?
- blocking this land for at least 25 years ?

## PDPU 1 MW PLANT

# **POWERTREE PRODUCT**

## **Key Features**

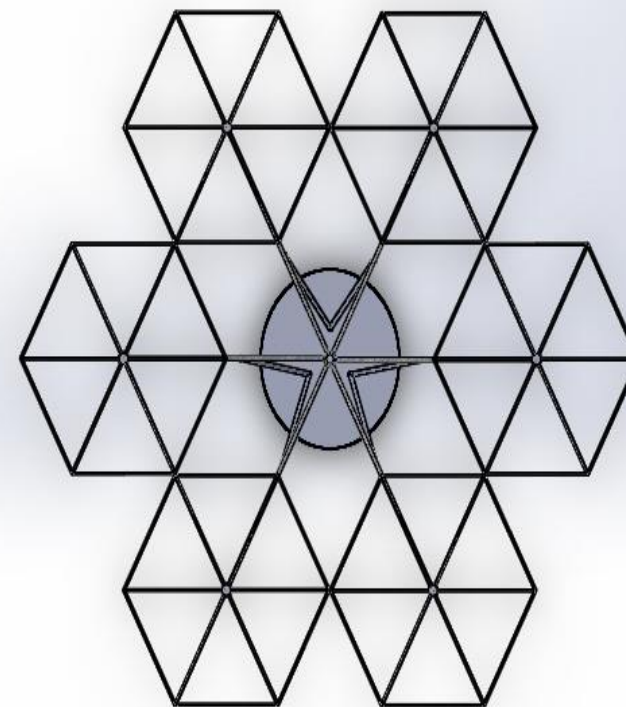
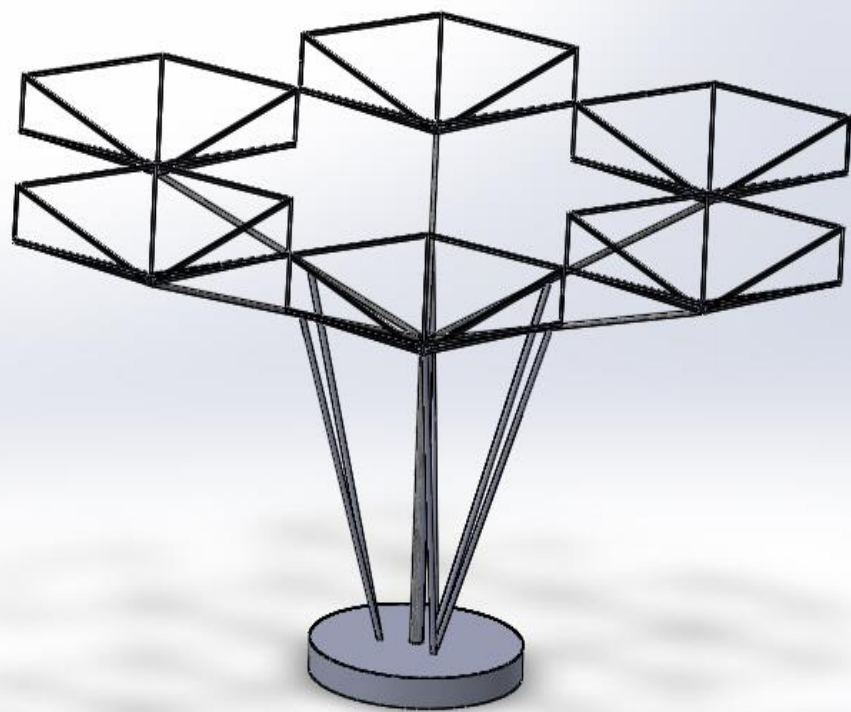
- 90% less Space Required in Land
- Highly Efficient Solar Panel
- Car Parking Capacity with Shadow
- Grid Connected Supply
- Hot Dip Galvanised Architectural Designed Structure
- Mobile Laptop Charging Points
- Seating Space (Optional)
- Surveillance Camera (Optional)
- Night Light (Optional)
- Electric Vehicle Charging Station (Optional)
- Digital Green Marketing Screen (Optional)
- RO water Purification System (Optional)
- Power Sharing Kiosk (Optional)
- Anti Pollution Capture Tower (Optional)
- Transparent Panels (Optional)
- SMASH 4 Panels (Optional)
- Customised according to need



## **Single Powertree Capacity**

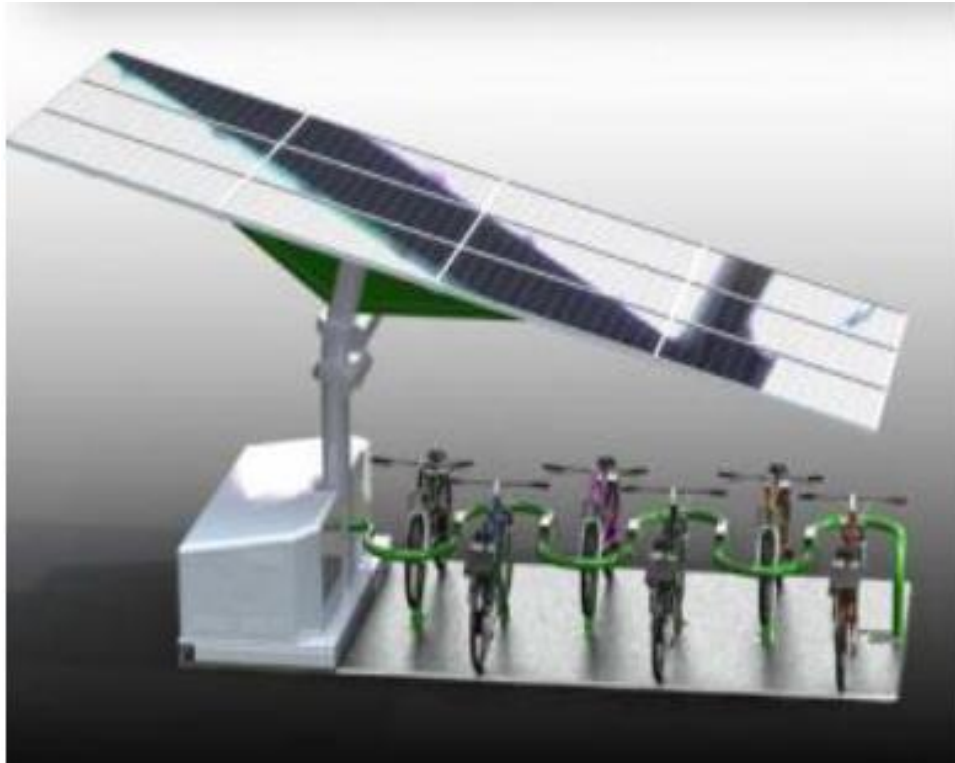
- 35 Kwp Solar Powertree  
(Proposed for Large Scale Plants)
- 30 Kwp Solar Powertree
- 25 Kwp Solar Powertree
- 20 Kwp Solar Powertree
- 10 Kwp Solar Powertree
- 15 Kwp Solar Powertree
- 05 Kwp Solar Powertree



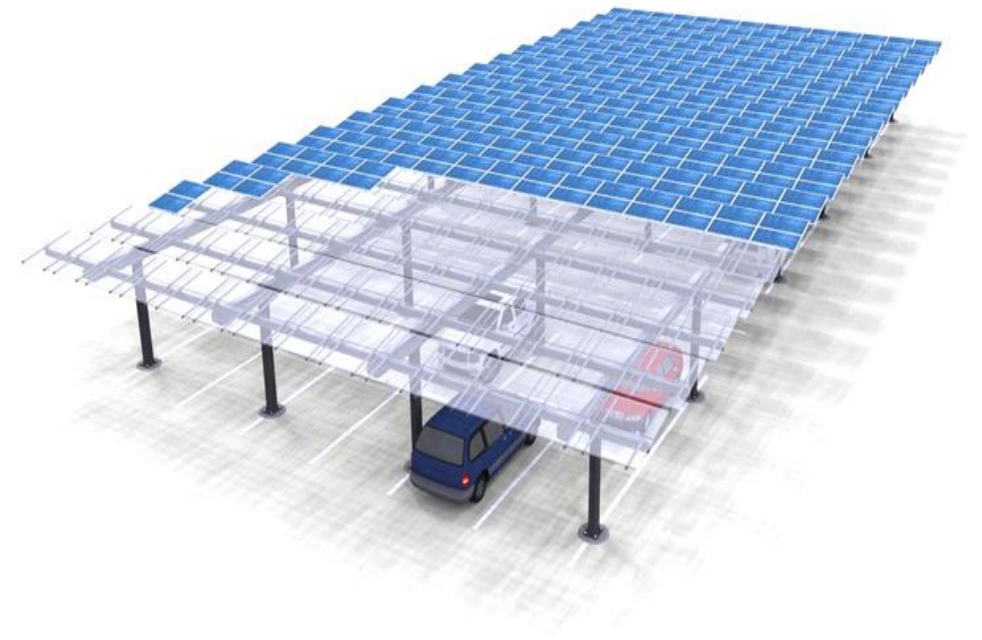
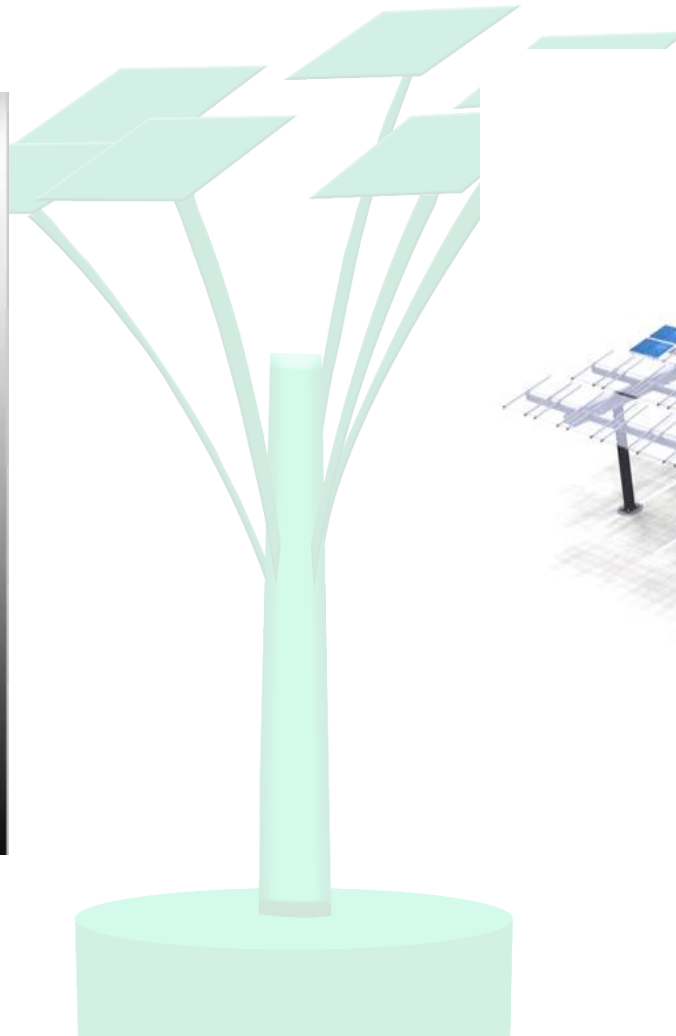


## Concept Design of 35 Kwp – Diamond Powertree Design

# OTHER PRODUCTS



EV Charging Station



Solar Carport Design





Total marked space is around 50,355.12 M2 or 934.28 m. Inside the boundary 2 MW Plant can be installed but it will consume all the space for at least 25 years.

So alternative option to save the land is installation of Powertree at the boundary .

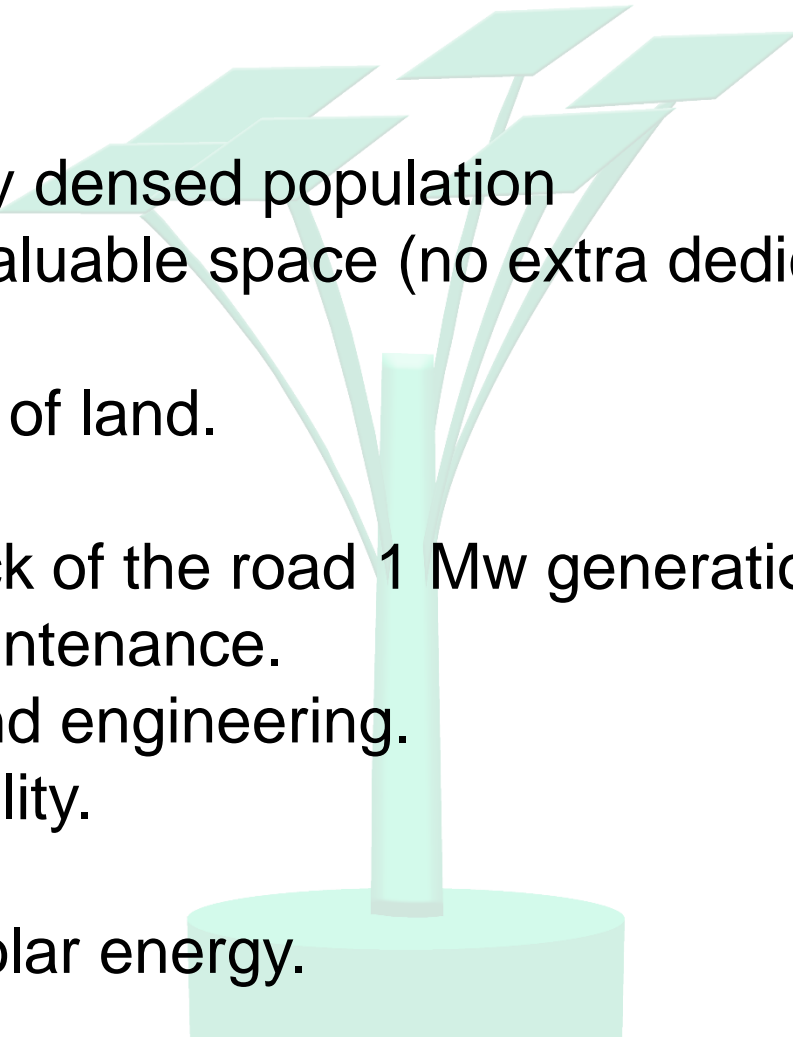
Then you can utilize this remaining space. Capacity of power tree at the boundary of Tapas Udhyan is 1 MW.

## SOLUTION EXAMPLE FOR GIFT CITY

# WHY US?

## IDEAL SOLUTION FOR :

- Smart cities
  - Area/City/town with highly dense population
  - Solve the constraint of valuable space (no extra dedicated space allocation required).
  - Ultimately saves the cost of land.
- 
- Within border of 1 Km track of the road 1 Mw generation can be achieved.
  - Minimal hassle for the maintenance.
  - Industry leading design and engineering.
  - Superior safety and reliability.
  - Increase return on solar.
  - Provides visibility to the solar energy.







## 5.2 Kw Powertree with 500 LPH Industrial RO System





**Power tree Installed at Riverfront Ahmedabad**





**Powertree – Opposite to Engineering Building of PDPU**





**Powertree at PDPU Cafe**





## OUR CLIENTS



**FUNDING**



**MENTORING**



**TECHNICAL**

**SUPPORT**

## **FINANCIALS (Assumptions)**

1	Life time of PV	Years	25.00
2	Rated Capacity of PV System (RC)	KWP	1000.00
3	No of Unit Generation Per Day from 1 KWp Plant	KWH	5.00
4	No of Units Per year by 1 Kwp Plant		1825.00
5	No of Unit Generation by 100 Kw Plan	KWH/year	1825000.00
6	Degradation Factor	%	0.01
7	% Own Consumption	%	1.00
8	Total Customer Charge	INR/KWH	9.00
9	Annual Increase /Generation Charge	%	0.00
10	Operations and Maintenance/Year/KWp	INR/KWH	1500.00
11	Cost of installed PV System	INR/KWP	60419.53
12	Cost of installed PV System total	INR	60419528.00
13	Land Saving	Sq. Mtr.	50355.00
14	Rentals	Per Sq. Mtr.	1000.00
15	Increment in Rents	%	0.03



## **FINANCIALS (KPI)**

### **Key Performance Indicators based on 25 Years Calculations**

1	Total Solar Energy Produced	KWH	42989611.32
2	Total Capital Cost	INR (in Lacs)	604.20
3	Total Operational Cost	INR (in Lacs)	1475.21
4	Total Revenues	INR (in Lacs)	20934.17
5	Break Even Point	Year	1.00
6	NPV of the Investment	INR (in Lacs)	6456.35



THANK YOU