



Apro GreenTech

“Greening the Impossible” - doing what others thought impossible

Solar Tree for Lighting & Beautification

Who we are

Apro Greentech is a sustainable environment consultation firm. In our endeavour of “*Greening the Impossible*” APRO GREENTECH provides and implements Sustainable solutions specially crafted for the unique challenges we face today... we bring in creative innovative ways to treat waste & incorporate the use of renewable energy in your day to day life., Constantly coming up with creative ways to treat waste. One of our key achievements came in 2013, when we made roads in a Mumbai suburb using recycled tires. Promoting the use of renewable energy, much like our Solar Tree installations in 10 locations across Mumbai, we've setup Scientific Recycling centre's and other innovative ways to Reuse, Reduce and Recycle household and commercial waste.

All in all our innovations cater to government organisations. Corporate CSR & private organisations., planning a rural development project through renewable technologies or it can be integrating green technology in your infrastructure. Our professional team can provide you with required knowledge, implementation strategies and efficient products.



DIFFERENT VERTICALS OF APRO GREENTECH



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Green Consultancy

- Planet-friendly rural and urban development
- Waste precessing and recycling
- Solar powered lighting solutions
- Rural energy management
- Waste Management

Sustainable Advertising

- Green Advertising solutions
- Environmental Sustainability Promotions
- Carbon Neutral Awareness programs
- Solar charging stations
- Green billboards and hoardings

Urban Greening & Beautification

- Urban beautification initiatives
- Plantation & clean up drives
- Awareness programs
- Green homes
- DIY workshops

Sustainable Homes

Apro Bricks

- Designed for strength and durability
- Made out of recycled waste
- Sample home completed
- Pre-fabricated rooms available



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Greening the Impossible

Sustainable Sanitation

SusLoo, the sustainable sanitation unit

- Powered by solar energy
- Structure made from recycled waste
- Simple setup and maintainance
- Can be modified for the handicapped & children

Renewable Energy Innovations

- Solar benches
- Mobile charging stations
- Laptop charging kiosk
- Bins and tree guards

Waste Management & Recycling

- Solid waste management solutions
- Carbon Credit Programs
- Scientific recycling units
- Dry waste centers
- Thermocol recycling

To know more, visit us at www.aprogreentech.in

Apro Greentech Solar Tree For Lighting & Beautification



A solar tree is an artificial tree with Photo voltaic cells arranged to form the tree shape, Solar trees are intended to bring visibility to solar technology and to enhance the landscape and architecture they complement, usually in a commercial or public context. An objective of many solar tree installations is to promote awareness, understanding, and adoption of renewable energy. Solar Tree is a design phenomenon and is applied to track maximum power from sun. A solar tree is an artificial tree with Photo voltaic cells arranged to form the tree shape. Our solar tree can be integrated with Wi-Fi, cctv cameras, weather monitoring system & sun tracking system..

Solar tree technique enables in increased generation per sq.ft thereby results in optimal utilisation of available land. Solar tree is a revolutionary urban lighting concept that represents a perfect symbiosis between pioneering design and cutting-edge eco-compatible technology. Solar tree opens up new prospects for urban lighting in that it satisfies today's most pressing environmental, social, Cultural and aesthetic demands.

Solar tree is the successful concept of most advanced technology and the aesthetic requirements of the urban environments thru renewable energy plans. Solar tree plants produce new growth following a FIBANACCI SEQUENCE. In this sequence, where the previous numbers are added together to make the next number in sequence ($1+1=2$, $2+1=3$, $3+2=5$, $5+3=8$ etc.,) and its corresponding golden ratio have been observed all over the world. In the same way “tree” using the sequence of leaves .

Benefits of solar tree

- Solar tree technique enables in increased generation per sq.ft thereby results in optimal utilisation of available land.
- Solar tree is a revolutionary urban lighting concept that represents a perfect symbiosis between pioneering design and cutting-edge eco-compatible technology. Solar tree opens up new prospects for urban lighting in that it satisfies today's most pressing environmental, social, Cultural and aesthetic demands.
- A sinuously elegant tree with ecologically intelligent 'fruits'-that is LED bubbles that light up at night powered by sunlight accumulated during the day by solar panels .the aesthetic refinement of the design is thus integrated with an extremely high technological content
- Solar Tree is designed to function both autonomously and in synchronization with the public grid. Electric grid), it uses the energy generated by the solar panels during the day to recharge the batteries.
- At dusk, which is recognized by automatically monitoring the solar panel output, the LED sources are activated and remain lit until dawn (or as long as the batteries remain charged). Solar Tree is capable of functioning for three consecutive days of cloudy or overcast weather.
- When wired for coordinated functioning with the public lighting grid, it uses the energy generated by the solar panels to recharge the batteries and activate/deactivate the LED sources in synchrony with the grid, to which eventual surpluses of stored current can be relinquished.

Apro Greentech Solar Tree

- Solar trees may provide shade and meeting places. Generating free power to beautify the area. Our uber cool solar tree is made with best craftsmen using quality isi product, dc lighting which is cost saving & meets the safety norms, prevents mishaps like electric current on a metal structure. Our lithium ion batteries provide long life, better charge & power back as opposed to a lead powered battery. Our led lights systems come with a automate system with a dusk to dawn controller & a total 12 hours back up time on full charge.



**Powering INDIAN ARMY
campus with our Solar Tree.**



**Powering Indian Railway
With Our Solar Tree**



Disc Solar Tree





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Leaf Tree



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Solar Tree Specifications

Height of tree : 10 – 15ft depending on the location.

Approx. Tree Weight 80 – 120kgs

Foundation 2x2x2 PCC

lighting & solar system with LITHIUM ION Battery	
wattage per luminary/ Size	12 watts/ 485x350x22mm
solar panel/ weight	12 watts/ 2kgs
battery bank (lithium ion)	115.4 WH
Total autonomy days	18 HRS
Warranty	2 years
CO2 emission / KWH of energy consumed	2.1 lbs/ kwh
comparable conventional energy saved per year	2628.0 KWH



Solar Street Lamps. Apro GreenTech Solar lighting systems will pay for itself in only about 2 years. Apro GreenTech Solar photovoltaic panels are durable and do not require much maintenance, once in while cleaning of solar cell modules will be it. Average lifetime of solar power panels are 25 years, which justify the initial cost of solar panel. Motion sensor led lights save power



Apro Greentech Media Articles

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