

A 'Solar Tree' That Can Light 5 Houses

[All India](#) | [Indo-Asian News Service](#) | Updated: May 21, 2016 07:51 IST

Sponsored

Sponsored Links by Taboola

- [The Dream Vacation Package To Spoil Your Wife And Kids](#) (Hong Kong Tourism Board)
- [Just Pay Rs 11 & Stay Free From Expensive Medical Bills.](#) (QuickBima)
- [Is an Overseas Education Worth the Money?](#)(BigDecisions)
- [Want to Prevent Cancer? Put These 8 Foods on Your Plate](#)(HealthMindBodies)
- [This Box For Preschoolers Helps Learn New Skills & Gain Creative Confidence](#)(Flintobox)



IMAGE POSTED ON FACEBOOK BY drharshvardhanofficial

The "solar tree" was inaugurated on Tuesday by union Science and Technology Minister Harsh Vardhan.

Kolkata: A CSIR laboratory in West Bengal has designed a 'solar power tree' that takes up only four square feet of space and produces about three kilowatts (kW) of power - enough to power about five households.

"The challenge was to come up with a design so as to generate more solar power in less land space," Sibnath Maity, chief scientist at the Central Mechanical Engineering Research Institute (CMERI) in Durgapur, which developed the "tree", told IANS.

"For one MW of power, one needs five acres of land. To generate 10,000 MW we would need 50,000 acres. Now this poses a dilemma in states like West Bengal and Bihar," Mr Maity said.

The "solar tree" was inaugurated on Tuesday by union Science and Technology Minister Harsh Vardhan during his maiden visit to the CMERI, which is a constituent of the Council of Scientific and Industrial Research (CSIR).

Mr Maity said one conventional solar photovoltaic system of five kW requires 400 square feet of area.

The three kW solar power tree resembles a tree with branches at different tiers and could be squeezed on rooftops and highways with a space requirement of around four square feet.

"The branches hold up the 30 photovoltaic panels and the system costs around Rs. 3 lakh with battery back-up," Mr Maity said.

Two solar power trees would be installed at the office at Harsh Vardhan's bungalow according to the minister's request, said Mr Maity.

Harsh Vardhan also inaugurated the 'Control Container' developed by the CMERI for lake and sea trial of 'Remotely Operated Vehicle (ROV)'.

"I happily took part in live demonstration of the tractors developed by CSIR-CMERI by being literally in the driver's seat and actually driving one vehicle," the minister posted on his official Facebook page.

"I lauded the contribution of the institute in Green Revolution with its immensely successful technological achievements - from 'Swarna Jvari' followed by the 'Sonalika' and the 'Krishi Shakti'. I also drove the 'e-Rickshaw' developed by the institute with great enthusiasm," Harsh Vardhan added.

[Can You Have A Successful Post Retirement Like These Cricketers](#)

Big decisions

[Parents, Here's a Box to Keep Your kids Busy This Summer](#)

Flintobox

[The most addictive game of the year! Play with 14 million Players now!](#)

Forge Of Empires - Free Online Game

[SKODA Rapid – It's Time To Go Automatic](#)

Skoda

[9 Indian Dating Sites That Really Works](#)

TopDatingSites.in

[Help Save 9-Year-Old Hussein](#)

Milaap.org

MORE FROM NDTV

by Taboola

[CSIR Lab Develops 'Solar Tree' That Can Light 5 Houses](#)

[फिलहाल भाभी जी घर पर नहीं हैं : तस्वीरों में देखिए, कहां छुट्टियां मना रही हैं सौम्या](#)

[PM Modi Meets Apple Chief Tim Cook, Launch Updated 'Modi App'](#)

[Pilibhit Farmer's Account Frozen After Records Show Him As 'Mallya's Guarantor'](#)

[What BJP's Victory In Assam Means For Markets, Economy](#)