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# Motorised Solar Tracker for Manav Mandir Mission Trust by Arnav Gupta

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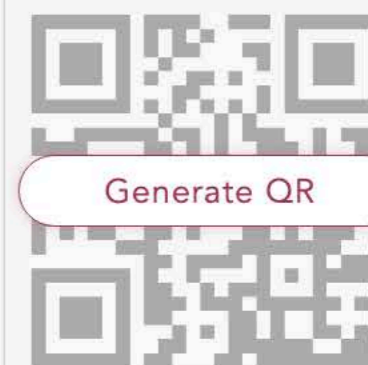
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Created by Arnav Gupta

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This fundraiser will benefit STEM education in lower income groups from New Delhi, Delhi

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A STEM Innovation Community Development Initiative by Arnav Gupta

### MOTORISED SOLAR TRACKER



Aim of my Project

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### Motorised Solar Tracker for Manav Mandir Mission Trust by Arnav Gupta



Conservation of energy is important in order to create a sustainable environment for the future. The purpose of my project is to optimize electricity generation in an environmental friendly and sustainable manner. My 'Motorised Solar Tracker' will enhance the efficiency of the solar panel by harnessing the sun's energy to generate electricity (convert light energy to electrical energy).

This electricity generated will be used to power appliances like LED lights and fans for classroom set-ups for the under-privileged students at the 'Manav Mandir Mission Trust' locations and other rural areas. This project will also promote STEM education amongst students and teach them how to generate clean and renewable energy in an effective manner.



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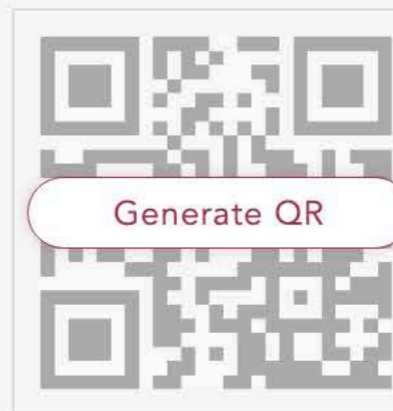
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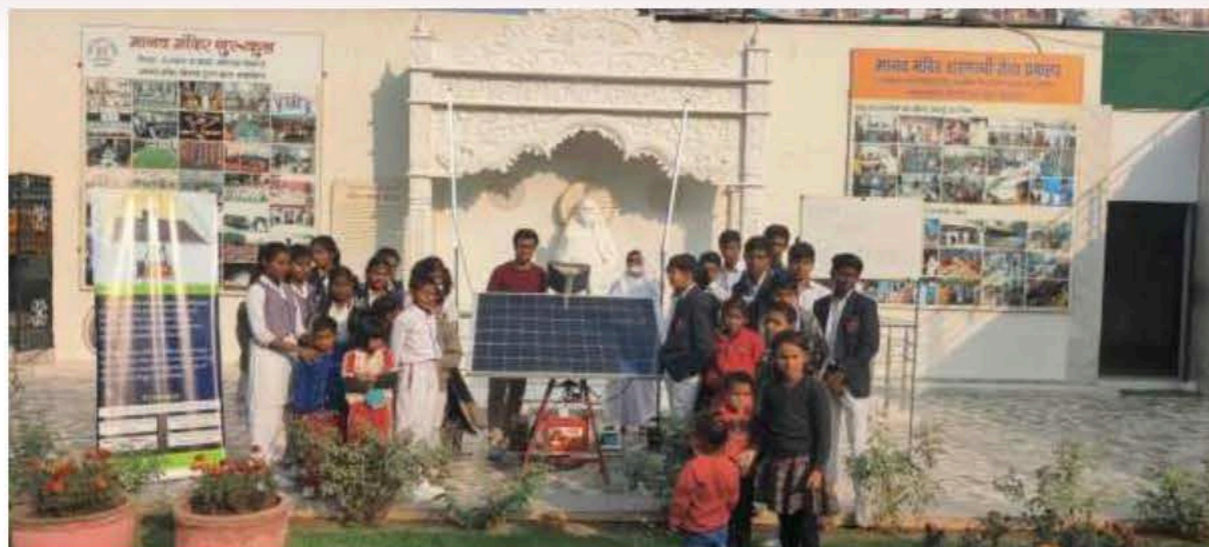
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### How does a 'Motorised Solar Tracker' work?

In most installations, the solar panels are fixed and pointing in a southwardly direction. This approach is not effective as the sun is constantly changing altitude and direction throughout the day. Without a rotating solar panel, many additional solar panels are required to generate the same amount of electricity, thus increasing its cost and lowering their efficiency.

With the 'Motorised Solar Tracker' that I have designed, the tracker will *rotate the solar panel* throughout the day and track the sun's movement from east to west. In doing so, we will optimize the efficiency of the solar panel and in-turn generate clean and renewable energy.

A MOTORISED SOLAR TRACKER is essentially a *sun location sensor* that rotates a DC motor, which in turn *rotates the solar panel* so that it directly faces the sun. There are two components to the motorised solar tracker.

1. Sun Location Sensor & Rotating Mechanism
2. Electrical Circuit & its Components

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## Cost & Quantity

The cost of a single set-up is approximately Rs.35,000 and I am seeking to raise Rs.1,40,000 for my installations of the 'Motorised Solar Tracker' at Manav Mandir NGO locations. The extra money if received through the donors will be used to procure LED lights and fans for the classroom set-ups.

## OTHER COMMUNITY ACTIVITIES



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OTHER COMMUNITY ACTIVITIES



Republic Day Celebration at Manav Mandir NGO  
Location: KH-57, Sarai Kale Khan, New Delhi- 110013



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Diwali celebration with the Pakistani Hindu refugees at Manav Mandir NGO  
Location: Manju-ka-Tilla, Signature Bridge, Delhi- 110094



Assisting children with their homework can be enjoyed too!



Your support can make this campaign successful by establishing an education

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# Motorised Solar Tracker for Manav Mandir Mission Trust by Arnav Gupta



near support can make the campaign successful by establishing an education system that becomes a pilot project for making STEM education more accessible to the under-privileged community.

If something isn't right, we will work with you to ensure no misuse occurs.

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## Supporters

**IC** IKG  
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**A** Anant  
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**RS** RAHUL  
₹400

**SP** Sudhir  
₹1,000





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