



Background

Schools depend on conventional sources to meet their energy requirements, but a shift to renewable energy will go a long way in providing environmental and economic benefits. Few of the schools that are part of the GSP (Green Schools Programme) network have adopted alternate sources of energy such as solar (the most popular in schools) or using bio-pellets in place of LPG, but these are few and far between. The GSP 2018 environmental audit of 1,700 schools revealed that only 13 per cent of schools operate on solar energy, indicating that the huge potential of solar rooftop at educational institutions remains untapped.

To increase awareness on Renewable Energy and to familiarize the school community (students, administrators, and faculty) on the importance of renewable energy, especially rooftop photovoltaics technologies in the context of Climate Change, CSE, in collaboration with HIMCOSTE, will organise a science fair competition.

The aim of the science fair competition for schools in Shimla is to

- Enhance the understanding of energy management and the need to transition to cleaner energy alternatives with lower environmental impact.
- Enhance the students' understanding of the value of the solar installations.
- Bring about a change in the way energy is consumed and managed in schools.

Eligibility

- Schools are to register at <https://www.greenschoolsprogramme.org/audit/19/register>
- Schools that participated in the GSP Workshop in Shimla on September 6 & 7 will be given preference
- Each school can submit/ exhibit one entry/ model/ project on the topic mentioned below: Applications of Renewable energy - especially solar technologies in the context of climate change
- Each school team will consist of three students and a teacher who will supervise the team
- Students from Classes 6 to 12 can participate
- Participating schools need to submit a summary of their respective projects in 200 words in English and Hindi to support@greenschoolsprogramme.org by October 20, 2019. The email should have the subject line: **CSE Science Fair 2019**



Guidelines for the Project



The theme is - solar photovoltaic and its application

Each exhibit will come prepared with a summary in English in not more than 200 words. The summary will be displayed in the Science fair which will be held in parallel with the Children's Science Congress and will cover the following:

- Title of project/ exhibit
- Concept/ principle behind project/ exhibit
- The problem the project/ exhibit addresses
- The beneficiary the project/ exhibit addresses
- Any innovation/ original thinking that the project/ exhibit demonstrates
- Material used (models/exhibits which reuse waste material will be preferred)

Teams are encouraged to appoint a team leader for co-ordination purposes, but all members of the team must be able to communicate the concept, the features, etc of the project

Science Fair at Bilaspur (13-16 November 2019)

- The team (three students and one teacher) that works on the project will travel to Bilaspur
- For the participating teams, CSE will cover the expenses for travel, boarding and lodging for three students and one teacher
- Subject to entries received: schools will exhibit their projects for one or two days, and will arrive a day prior to the day of exhibition
- The participating school/team will have to bear all expenses related to the preparation of the exhibit
- Teams that exhibit at the Science Fair will receive certificates of participation from CSE

Assessment

Criteria for assessment will be similar to Jawaharlal Nehru National Science, Mathematics and Environment Exhibition for Children (JNSMEE) and schools will be assessed on the following:

- Scientific approach
- Innovation/ Originality
- Application/ Utility value
- Scalability
- Economic value
- Presentation
- Reuse of waste material/recycled material

For any queries contact: support@greenschoolsprogramme.org. You can also reach us at

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