

BEST PRACTICES-1

TITLE OF THE PRACTICE:

Renewable Energy Resources (on – grid solar power plant)

CONTEXT:

Solar energy is renewable source of energy as it can be used to produce electricity as long as the sun exists. India holds an important place in the global education industry.

India has one of the largest networks of higher educational institutions in the world. Gross Enrolment Ratio in higher education reached 25.8 percent in 2017 – 18. This presents a very good opportunity for solar rooftop in educational institutions.

It also helps house renewable energy to bring down energy cost. Setting up a solar photovoltaic (PV) power plant, will not only contribute towards reduction in overall costs of energy for the premises but also to contribute to a greener or sustainable environment.

OBJECTIVES OF THE PRACTICE:


- To install solar power plant on the roof terrace and generate solar energy.
- Offsetting of green house gases.
- To utilize the generated solar power for institution as substitute to conventional power supply.
- To export the excess generated solar power to national grid.
- To impart practical knowledge among students from this working.
- To augment long term research in the field of solar power.
- To become a role model among the public in going green.

THE PRACTICE:

Considering the growing energy demand from various sectors our college has decided to go for use of nonconventional energy resources for all its internal consumptions by installing roof top solar panels.

For the last five years, energy usage, our annual requirement is about 16824 units. We have installed 46 numbers of solar panels with the install capacity of 20kw with capital cost of Rs. 547676/- in the month of November 2018. Solar system has given excellent results which have generated 37372 units of solar energy for November 2018 to July 2020. On an average the system generates about 50 units of energy per day. That is about 18000 units per year against our requirement of 16825 units. Thus, making college self-sufficient to export the surplus energy to national grid.

Generation of solar energy has given number of environmental benefits in terms of offsetting green house gases. Such as solar energy generated is equivalent to creation of 41.6 hectare of forest land, saves 482278 kg of carbon dioxide which reduces pollution made by 6 passenger cars emitting carbon dioxide, over 106.32 hours. Reduction of 236.64 kg of nitrous oxide which is equivalent to requirement of power to 2094 computer for a year. And also reduces 1393 kg of sulphur oxide which equivalent to emission of carbon dioxide by TV over 103005 hours.


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OBSTACLES FACED IF ANY AND STRATEGIES ADOPTED TO OVERCOME THEM:


- Poor service from suppliers after installation
- Daily cleaning of panels is necessary to improve efficient power generation. Care should be taken of obstacles falling on the panels like tree shadows. So, daily maintenance and accordingly the man power are required for the same.
- Strategies adopted
- Local experts are contacted and taken service on need basis.

IMPACT OF THE PRACTICE:

- Sustainable and Renewable Energy Sources
- Builds good will with the community
- Good learning opportunities
- Utilization of terrace for installation of solar panels resulting in the accumulation of truly renewable energy source.

RESOURCE REQUIRED:

In house experts and local agencies.


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BEST PRACTICES-2

TITLE OF THE PRACTICE-

Add-on courses

THE CONTEXT:

Prevailing system of higher education in the region focuses mainly on academic aspects and performance at the expense of other innate talents in the students. Being an affiliated college curriculum is designed by the parent university. It's very difficult to change the syllabus frequently. The present education system is student centric and need to be focused on their employability. There is a dynamic change in the requirement of recruiters which may not be 100% met through the existing curriculum. Therefore, there is a need for introduction of add-on courses to bridge this gap to make our students more employable and develop entrepreneurship skills.

So, add-on courses enable the teacher to act like motivator to the students gain maximum academic benefit.

OBJECTIVES OF THE PRACTICE

In line with the institutional vision add-on courses is been adopted as a best practice by the institution with the following objectives:

Make our students more employable and develop entrepreneurship skills.

Project an institution that moulds and provides all round development in the student's educational phase.

Develop holistic academic growth along with social and professional development.

THE PRACTICE:

During this academic year college has introduced six add-on courses including three foreign languages (French, German, Japanese) and three add-on courses in respective functional areas. Depending upon the course requirement, content of the course is developed with a weightage of 2 to 4 credits (one credit = 15 contact hours). For developing the course content committee of experts with head of the departments as a chairman is appointed by Principal.

The guidelines of add-on courses are charted by Principal in consultation with the management which is included in the annual academic calendar. The various activities conducted are highlighted as follows:

- **Assessment of performance:** Motivating students to participate in form of oral, theoretical, practical and site experiences in the time schedule framed for the course.
- **Organizing competition:** These competitions are organized with the intent of knowledge dissimulation to develop effective language skills to enable simultaneous improvement in academics.



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- **Organizing field visits:** These activities are conducted to enable students appreciate as they are able to link actual class room teaching with practical working.
- **Awarding Certificate:** Certificates are awarded to students on successfully completion of course.

OBSTACLES FACED IF ANY AND STRATEGIES ADOPTED TO OVER COME THEM:

The tight schedule involved in the University Laid-down semester system is a major obstacle faced by the college.

- **Strategy Adopted:** To overcome time constraints, the college drafts an Annual Academic Calendar incorporating all academic as well as add-on courses framework with effective time management and to ensure success of the programme. Such add-on courses activities are slotted keeping in mind that the normal class routines are not affected. The college has been able to cope the issues of time factor due to the effective participation and cooperation from the students as well as the management.

IMPACT OF THE PRACTICE:

The positive outcome of the practice can be highlighted as:

- Healthy Participation of the students.
- An increase in the confidence level of the students as they are exposed to new and important aspects of their respective curriculum courses.
- Such activities as framed for short term generates interest and curiosity among the students to show their personal skills.
- Improvement in the personality and confidence level and also teamwork culture is developed among the students.

RESOURCE REQUIRED

Professional personals are required to impart their inputs.

Field personals are also required to impart practical knowledge.


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