



# Energy Policy

Save energy, Save Earth




Submitted to

Principal,

PDEA's Annasaheb Magar Mahavidyalaya,

Hadapsar Pune – 411028

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## **Energy Policy**

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### ➤ Preamble:

Environment-friendliness and energy harvesting are of prime interest today which are the key factors in achieving Sustainable Development Goals (SDGs) for any organization. Keeping these factors in specifying energy policy of Lakireddy Bali Reddy College of Engineering (Autonomous), we presume that it is in accordance with the prescriptions of National Institution for Transforming India (NITI) Aayog with reference to support for renewable energy resources. Another factor of significance is rapidly and dynamically increasing energy demand. Since conventional sources cannot meet this requirement easily, LBRCE has incorporated establishment of alternate energy sources in the form of Solar PV generation. LBRCE energy policy also has taken an efficient energy management and conservation through good established procedures specified in its policy.





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### ➤ Introduction:

New National Education Policy is implemented in India from 2021 to inculcate education among common Indian and improve their intelligence.

To achieve such task, various type of management is essential, especially energy management. Because, at office timing every one facing electricity problem. Educational institutes require large amount of energy. So, institute must have energy management about production of electricity and saving electricity. Most of the Energy requirement in India is depends on domestic fossil fuel. Government motivates educational institute for the use of renewable energy resources.

In this energy audit study, auditor team measured use of electricity in classroom, laboratories, practical purpose instruments, Fans, air conditioners, computers, printers, photo copy machines, etc. first we calculate exact consumption of bulb, fans, AC, computer, printers, instruments, etc in the total requirement of electricity. Our team calculated institutional investment on the electricity and total generation electricity from the solar electricity generation.





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Also, we have focused on saving of electricity from solar generation and solar energy requirement.

Energy audit study is completed by collecting exact data mentioned above things using above survey.

### ➤ Objectives:

- To increase the locally produced energy in India
- To reduce energy poverty with more focus on developing alternative sources of energy, particularly nuclear, solar and wind energy.
- Economic efficiency, basic needs and equity, energy independence and national security, mobilization of financial resources, conservation and oil substitution, and other socio-political objectives and constraints





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## ➤ Implementing guidelines

The institution has clear policy and guidelines for energy conservation and use.

- All individuals (teaching, nonteaching and students) of the institution should appreciate and value the use any form of energy ie., electricity and water in abundance.
- They are entitled/obliged to save and prevent the misuse or wastage of any form of energy.
- An Energy club has to be constituted in the institution including members of teaching staff, and students with the principal as the Chairman.
- An Energy Monitoring Committee has to be constituted in the institution to check the use of various energy sources available in the institution.
- The energy monitoring committee shall comprise of members from teaching, nonteaching and students of the institution with the principal as the Chairman.
- The energy monitoring committee shall conduct energy audit biannually and must submit the report to the head of the institution.
- Necessary actions have to be taken by the head of the institution to reduce the energy consumption based on the report submitted by the energy monitoring committee.





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- Signboards on energy conservation need to be displayed at the focal points of the institution.
- Use of LED lamps must be promoted in the institution.
- Maximum use of daylight has to be promoted in classrooms and office rooms.
- Priority needs to be given to energy efficient equipment during purchase.
- Switching to solar energy has to be given prime importance.

### ➤ Additional measures:

#### ➤ Use Of Renewable Energy:

1. 10 solar street lamps installed on campus. (PV panel 12 V 40 W, LED luminary: 9 W ; Battery : 160 WAH – Lithium Ferro phosphate battery )
2. Terrace area of college buildings is with roof top Grid Tied Captive Solar PV plant with following specifications.

Type of system : Grid tied

Solar array capacity : 40 kWp

Module mounting : Fixed tilt

Estimated power generation : 55,480 KWh / year (First year)

Degradation : 0.7 % YOY Linearly

Project life : 25 years

Project benefits:






- Installing this system is equivalent to planting 2360 mature trees.
- Reduction of 30 metric tons of CO2 Emission for first year.

After completion of survey, auditor team conclude that there are four electricity meters in a institute campus and the total electricity power required is around 5200 KW per month. Institute installed Solar power plant (Renewable Energy Source) having capacity of 50 KW spite in to three part which generate 1970 KW



  
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