



Office of The Principal Shri Pandit Prem Nath Dogra
Government Degree College Samba



J&K (UT) - 184121
NAAC Accredited Grade-B

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Short-Term Energy Efficiency Goals and Roadmap

SPPND Government Degree College Samba is committed to improving energy efficiency across its campus by setting clear, actionable short-term goals that contribute to environmental sustainability, cost reduction and a healthier learning environment.

Below are the proposed goals and the roadmap to achieve them.

Short-Term Energy Efficiency Goals (1-2 Years)

1. Reduce Overall Energy Consumption by 10%

- Implement strategies to cut down on electricity use across campus, targeting lighting, air conditioning and office equipment.

2. Upgrade to Energy-Efficient Lighting Systems

- Replace existing incandescent or CFL bulbs with LED lights in classrooms, hallways, offices and outdoor areas.

3. Optimize HVAC Systems

- Ensure all HVAC systems (heating, ventilation, and air conditioning) are functioning efficiently and are used optimally by adjusting temperature settings and performing regular maintenance.

4. Install Energy-Saving Power Strips

- Equip classrooms, faculty rooms and computer labs with power strips to reduce phantom energy consumption when devices are not in use.

5. Raise Awareness on Energy Conservation

- Conduct awareness programs for students, faculty and staff to promote energy-saving practices, such as turning off lights when not in use and unplugging devices.

6. Conduct Energy Audits

- Perform a baseline energy audit to identify key areas of improvement and measure the current energy usage across the campus.

7. Implement Smart Energy Management Systems

- Install energy management systems that allow monitoring and control of energy consumption in real time.



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Roadmap for Achieving Short-Term Goals

Phase 1: Assessment and Planning (Months 1-3)

- **Conduct Energy Audit:** Hire an energy consultant or form a team to carry out an initial energy audit to assess current energy usage patterns, identify inefficiencies, and pinpoint priority areas for improvement.
- **Energy Management Plan:** Develop a comprehensive energy management plan based on audit results, outlining the specific steps and timelines for implementing the identified improvements.
- **Procure Equipment:** Research and purchase energy-efficient lighting solutions (LED bulbs), HVAC system optimization tools, and energy management systems.

Phase 2: Implementation of Energy Efficiency Measures (Months 4-9)

- **Lighting Upgrades:** Begin replacing all incandescent and CFL bulbs with energy-efficient LED lights in classrooms, corridors and other shared spaces. Focus on high-use areas first (e.g., lecture halls, office spaces).
- **HVAC Optimization:** Implement changes to HVAC systems, such as setting thermostats to optimal energy-saving temperatures, scheduling maintenance checks and upgrading insulation or ductwork as needed to improve efficiency.
- **Install Power Strips:** Distribute energy-saving power strips to key areas such as classrooms, computer labs and faculty rooms. Educate users on the importance of switching off devices and using power strips effectively.

Phase 3: Awareness and Behavior Change (Months 4-12)

- **Conduct Energy Conservation Workshops:** Organize workshops for students, faculty, and staff on the importance of energy efficiency and specific actions they can take to reduce energy consumption.
- **Promote Energy-Saving Habits:** Run campaigns through posters, digital screens and announcements to encourage turning off lights and electrical appliances when not in use, reducing energy waste.

Phase 4: Monitoring and Adjustment (Months 10-12)

- **Monitor Energy Consumption:** Regularly track energy usage using the energy management systems. Compare usage data to the baseline audit to assess the success of energy-saving measures.



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- **Make Adjustments:** Identify any areas where further improvements can be made or where energy-saving targets are not being met. Make necessary adjustments to optimize energy use.
- **Report Progress:** Prepare a report on the progress toward meeting energy-saving goals, including energy consumption reductions and cost savings.

Expected Outcomes in the Short Term

- **Energy Consumption Reduction:** A 10% reduction in overall energy use across the campus.
- **Cost Savings:** Reduced electricity bills through the implementation of energy-efficient measures.
- **Enhanced Campus Environment:** A more comfortable and sustainable campus with reduced environmental impact.
- **Increased Awareness:** Higher levels of awareness and proactive behavior related to energy conservation among students and staff.

By achieving these short-term energy efficiency goals, SPPND GDC Samba will take important steps towards becoming a more sustainable and energy-conscious institution. This roadmap sets a strong foundation for long-term sustainability efforts that can further reduce energy consumption and enhance the campus's environmental performance.

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