

Sustainability in Schools: From Awareness to Action



Why Sustainability in Schools Matters Today

Schools consume massive amounts of electricity – air-conditioning, lighting, labs, IT equipment, pumps, servers, and more. Yet in most institutions, utility bills are treated as fixed, uncontrollable expenses.

The reality is very different:

Utility cost is one of the most controllable expenses in a school.

From the attached solar report:

“A rooftop solar installation generates clean electricity directly from sunlight... every 100 kW of solar capacity saves over ₹10 lakh annually.”

And the case study of MRIS shows:

“Together, the two campuses generate approximately 4,05,600 units of clean electricity annually, delivering savings of ₹32.45 lakhs every year.”

This is sustainability with measurable financial impact.

But solar is only one part of the story.

True sustainability begins with discipline, monitoring, and accountability.

The Real Problem: Wastage, Not Consumption

Most schools unintentionally waste 15–25% of their electricity because:

- No responsibility is assigned
- Lights, fans, ACs run in empty rooms
- Generator usage is unmonitored
- Fuel consumption is not tracked
- No preventive maintenance
- No awareness of cost impact
- No system to identify high-consumption zones

This is not an energy problem – it is a management problem.

A Practical Sustainability Framework for Schools

Below is a structured, implementable system that any school can adopt.

1. Utility Control Policy

A written policy is the foundation.

Core rules:

- No equipment runs without need
- AC usage only under defined conditions
- Generator runs only during outages
- Classrooms must switch OFF before leaving

2. Assign a Utility Incharge

Without ownership, sustainability fails.

Responsibilities include:

- Monitoring electricity usage
- Tracking generator operation
- Reporting wastage

3. Zone-Based Monitoring

Divide the campus into zones:

- Classrooms
- Admin block
- Labs
- Hallways

Each zone gets a responsible person.

4. Classroom Switch-Off Protocol

The last teacher leaving ensures:

- Lights OFF
- Fans OFF
- AC OFF

This single habit reduces 10–12% of wastage.

5. AC Usage Control System

ACs are the biggest cost driver.

Recommended AC Temperature Standards

Area	Temperature
Classrooms	24–26°C
Offices	24°C
Labs/Server Rooms	20–22°C
Auditorium	23–24°C
Corridors	Minimal or none

Every 1°C increase saves ~6% electricity.

Lowering AC to 18–20°C:

- Overloads compressors
- Reduces AC lifespan
- Increases electricity cost
- Causes uneven cooling

6. Generator SOP

Rules:

- Run only during outages
- Record start/end time
- Track fuel usage

7. Fuel Tracking System

Record:

- Fuel added
- Fuel used
- Consumption per hour

Mismatch = leakage or misuse.

8. Meter Monitoring

Daily/weekly readings help identify:

- Abnormal spikes
- High-consumption zones

9. Equipment Usage Control

Schedule usage for:

- Water pumps
- Computer labs
- Projectors

10. Preventive Maintenance

Faulty equipment = hidden wastage.

Routine checks:

- Wiring
- Switches
- AC filters
- Compressor health



Solar Energy: The Most Powerful Sustainability Lever

From the attached report:

“The investment pays back in approximately 3–4 years... the school effectively uses electricity for free for the remaining 21+ years.”

Solar is not just green – it is financially strategic.

For schools with unused rooftops, not installing solar is literally leaving money on the table.

Incentives & Culture Building

To build a culture of sustainability:

- Share monthly utility reports
- Recognise teams that reduce consumption
- Reward campuses with significant savings
- Conduct awareness sessions for staff & students

A simple reward system can transform behaviour.



Sustainability Is Not a Project – It Is a Discipline

When schools implement a structured system:

- Costs reduce
- Accountability increases
- Equipment lasts longer
- Students learn responsible habits
- The campus becomes environmentally conscious

And when combined with solar, the financial impact becomes extraordinary.

Final Thought

Sustainability in schools is not about restrictions – it is about smart management.

It is about ensuring that every unit of electricity and every litre of fuel is monitored, justified, and optimised.

Schools that adopt this discipline don’t just save money – they set an example for the next generation.



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