

## **Domain 4: Energy Utilization and Efficiency**

### **Mapped SDG Goals:**

- **SDG 7:** Affordable and Clean Energy
- **SDG 12:** Responsible Consumption and Production
- **SDG 13:** Climate Action

## **Domain 4: Energy Utilization and Efficiency**

### **Key Objectives:**

- Promote awareness on the importance of energy conservation and efficiency.
- Assess the usage of conventional and renewable energy sources in rural settings.
- Encourage adoption of sustainable energy practices at household and community levels.

### **Activities:**

1. Conduct household surveys on energy consumption and sources.
2. Create awareness on electricity-saving practices and energy bills.
3. Promote the use of energy-efficient devices (e.g., LED bulbs, solar cookers).
4. Organize street plays or poster campaigns on renewable energy.
5. Visit homes using solar panels or biogas units and document success stories.
6. Collaborate with local electricians or technicians to conduct demos on energy saving.
7. Educate schoolchildren on the importance of switching off unused appliances.
8. Identify areas with low electrification and suggest alternatives like solar lights.
9. Support local institutions (schools, Anganwadis) to adopt sustainable energy.
10. Develop community-based ideas for decentralized renewable energy use.

**Sample 10-Day Schedule:**

<b>Day</b>	<b>Activity</b>
<b>Day 1</b>	Orientation and energy use mapping in village. Household survey on electricity, fuel, and energy use.
<b>Day 2</b>	Awareness session on energy-saving tips and benefits.
<b>Day 3</b>	Poster making and display on energy conservation.
<b>Day 4</b>	Interact with local electricians or energy workers.
<b>Day 5</b>	Engage schoolchildren in “Energy Champions” activities.
<b>Day 6</b>	Propose a mini solar project or light efficiency campaign.
<b>Day 7</b>	Present findings and suggestions to Panchayat.
<b>Day 8</b>	Preparation and Submission of Final Report and Presentation
<b>Day 9</b>	Preparation and Submission of Final Report and Presentation
<b>Day 10</b>	Preparation and Submission of Final Report and Presentation

**Household-Level Survey Questionnaire (Yes/No):**

1. Does your household have a regular electricity connection? (Yes/No)
2. Do you use LED bulbs or energy-efficient lights? (Yes/No)
3. Are you aware of the monthly electricity consumption of your household? (Yes/No)
4. Do you turn off lights and appliances when not in use? (Yes/No)
5. Do you use any form of renewable energy (solar, biogas)? (Yes/No)
6. Is cooking done using LPG or clean energy sources? (Yes/No)
7. Are energy-saving tips discussed or promoted in your family? (Yes/No)

**Community/Village-Level Survey Questionnaire (Yes/No):**

1. Does the village have 100% household electrification? (Yes/No)
2. Are street lights operational throughout the village? (Yes/No)
3. Are there any solar street lights or solar-powered buildings in the village? (Yes/No)
4. Are renewable energy sources discussed in Gram Sabha or community forums? (Yes/No)
5. Are any institutions (schools, clinics) using solar power or efficient appliances? (Yes/No)
6. Are villagers aware of government schemes for renewable energy? (Yes/No)
7. Are there any local entrepreneurs offering solar or energy-saving products? (Yes/No)