

Lesson Plan - Renewable and Non-renewable Sources of Energy

Subject: Science (7) **Chapter:** Work and Energy **Topic:** Renewable and non-renewable sources of energy

Extended Lesson Plan 1: Reducing School Electricity Bill

(This Problem is an extended part of the project work that students have already done on Energy)

Once students have explored different types of energy, units of measurement and have analyzed the pros and cons of renewable and non renewable energy, They will be given a real life scenario to analyze the possibility of using renewable energy sources.

Students will be asked to calculate the total electrical energy consumption of their school and find an alternative source of energy that will also reduce the monthly electricity bill of the school.

Students will use spreadsheet to represent their data and analyze them. They can interview school HM's , teachers, members from electricity board, electricians, etc. Finally students will use graphs and present the cost benefit analysis of using the alternating source of energy. Student will also be asked to do an internet search on net metering concept and see if that can be useful in their plan.