

AWARENESS ABOUT ENERGY CONSERVATION PRACTICES AT HOUSEHOLD LEVEL AMONG HOME MAKERS IN TUMKUR TOWN

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ABSTRACT

Energy is required for every aspect of our daily lives .Energy resources is limited. The requirement for energy is limited. The requirement for energy has gone up in the last few years and would touch unimaginable proportions because of population explosion and improved standards of living in our country. A number of opportunities are available to improve household energy efficiency. Electric lighting itself offers a large energy conservation potential through the use of fluorescent lights, CFL bulbs, and LED bulbs. There are also other energy saving devices like solar water heaters, solar lighting and solar cookers. The aim of the study was to know the awareness and energy consumption practices among families in Tumkur town .A sample of sixty homes were selected randomly in Tumkur town. Survey method was used for the study and questionnaire was the tool for collecting information. From the study it was found that a majority of the respondents were aware of methods of conserving energy at the household level. Most of the respondents used LPG for cooking and used fluorescent and CFL bulbs in their homes.

INTRODUCTION

Energy is an important resource and is required in our daily lives. In our country, people once used cow dung and wood for their energy needs. With better economic conditions, more and more people are using cleaner and more convenient forms of energy like electricity, LPG for their homes. The availability of both these forms of energy is limited .A number of opportunities are available to improve household energy efficiency. Electric lighting itself offers a large electric conservation potential through the use of fluorescent tubes, CFL and LED Bulbs. It is

important that we use our energy wisely. If we do not conserve energy, we will soon deplete them. Also energy conservation is important from the climate change point of view.

METHODOLOGY

AIM –To know the energy consumption and conservation practices among selected households in Tumkur town.

OBJECTIVES

1. To know the energy consumption practices at the household level.
2. To know the awareness regarding energy conservation practices at the household level

PROCEDURE

Sixty households were selected randomly in Tumkur town .The respondents were given questionnaire to provide the information. The data collected was tabulated and analyzed using percentage method and statistical analysis was done where required to arrive at conclusions.

RESULTS AND DISCUSSION

A majority of the respondents age that is 43.3 percent was between 25 to 30 years. The educational qualification of most of the respondents was below SSLC.66.3 percent of the respondents were working.

TABLE -1
UNITS OF ELECTRICITY USED PER MONTH

Sl no	Units of Electricity used	Number	Percentage
1	40-70 per month	38	63.3
2	70-150 per month	12	20
3	Above 150	10	16.7

A majority of the respondents used between 40 to 70 units per month. Only 10 percent of the respondents used more than 150 units per month.

TABLE 2
TYPE OF LIGHTING AT HOME

Sl no	Type of Lighting	Number	percentage
1	Incandescent lights	15	25
2	Flourescent Tube light	32	53.3
3	CFL bulbs	42	70
4	LED bulbs	06	10

A majority of the respondent's i.e 70 percent used CFL bulbs followed by 25 percent who used Fluorescent tube lights .Only a small percent of the respondents used LED lights.

TABLE 3
CONSUMPTION OF FUEL FOR COOKING

Sl no	Type of fuel	Consumption	Number	percentage
1	LPG	1-11/2 cylinders per month	43	71.7
2	Kerosene	20-25 litres per month	17	28.3
3	Electric stove	-	-	-

A majority of the respondents i.e 71.7 percent used about one to one and a half cylinder per month, while only 17 percent used kerosene. None of the respondents used electric stove.

TABLE 4
AWARENESS ABOUT ENERGY SAVING DEVICES

Sl no	Devices	Number	percentage
1	CFL Bulbs	44	73.3
2	LED Bulbs	10	16.6
3	Solar water heaters	35	58.3
4	Solar cookers	5	8.3
5	Solar lights	8	13.3

A majority of the respondent's i.e 73.3 percent were aware of CFL bulbs followed by 58.3 percent who were aware of solar water heaters.

CONCLUSION

Most of the respondents used between 40-70 units of electricity per month. A majority of the respondents used incandescent lights followed by CFL bulbs .Only a small percentage used LED lights .LPG was the type of fuel used by most of the respondents and they used about one to one and half cylinders per month .None of the respondents used electric stoves. Most of the respondents were aware of energy efficient lights like fluorescent tubes and CFL bulbs as well as solar water heaters.