



E-BOOKLET FOR ENERGY EFFICIENCY



INTRODUCTION

- The UG badge programme is in line with the core values of the NEA guidelines.
- It aims to inculcate respect for the environment, responsibility towards the environment, care and harmony amongst primary school children.
- Its framework is also in accordance with the 6 domains of the CCE guidelines.
- It covers aspects in the Self, Family, School, Community as well as Nation domains.



- Students have to undertake certain projects as part of the programme.
- These range from them evaluating their contributions to the community (CCE Pri 4 Lesson 2) to coming up with posters for environmental protection (CCE Pri 5 Lesson 3).
- Moreover the underlying themes such as caring for others and keeping the environment clean are also in line with the CCE lessons.



Through this programme, students will:

- Understand the importance of the environment.
- Learn to respect the environment, and the importance of environmental protection.
- Understand the importance of not being wasteful.
- Learn to be considerate.
- Learn to plan and execute environmental outreach efforts in service to the local community.
- Share the knowledge they have learned about the environment with others.



SINGAPORE'S ENERGY DILEMMA

- Important to use energy wisely.
- Fossil Fuels
 - No natural source of coal, oil, and gas and limited potential for hydropower, geothermal energy.
- Wind
 - Wind speeds in Singapore are too low to tap wind energy on a large scale.
- Solar energy
 - Has potential but not enough to accommodate all of Singapore's energy needs.



OUR ENERGY USAGE

- Households used 6.9TWh of electricity in 2014, contributing around 3 megatons of CO2 emissions.
- This is due to the increase in ownership of home electrical appliances.
- Increased dependence on technology.
- Increased usage of technology such as mobile devices.



WHAT CAN WE DO?

Step 1: Understand your electricity consumption at home.

- Know which appliances consume the most energy. The appliances which consume the most energy are air conditioners, water heaters and refrigerators.
- Monitor your energy usage at home.
- Check your monthly electricity bill. Make sure that it is below the national average.



WHAT CAN WE DO?

Step 2: Choose electrical appliances with more ticks on the energy label.

- Learn how to read and understand the energy labels.
- The more ticks on the energy label, the more energy conserving the appliance is.



WHAT CAN WE DO?

Step 3: Learn to use appliances efficiently.

- Use a fan instead of air conditioner to keep cool.
- Use air conditioner for a while (1 hour) and then switch to a fan.
- Keep the temperature of the air conditioner at 25 degrees or higher.
- Switch off home appliances at the power socket when not in use.
- Make use of blinds and natural light during the hottest part of the day.
- Use energy efficient lighting.
- Switch off the water heater after showering.
- Install instantaneous water heater instead of storage water heater.
- Use energy efficient appliances based on the tick rating system.



SUMMARY

- Use energy efficiently to conserve our natural resources and money.
- Monitor and manage your energy usage at home.
- Practice energy saving tips.