

รายวิชา ภาษาอังกฤษ

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ชั้นมัธยมศึกษาปีที่ 3

ผู้สอน

ครูวรรณดี ถวิลบุญ

เรื่อง

Alternative Energy





Alternative Energy

ขอขอบคุณรูป Alternative energy โดย TeeFarm
เผยแพร่วันที่ April 11, 2017 ที่มา: pixabay

ขอขอบคุณรูป Alternative energy โดย PublicDomainPictures
เผยแพร่วันที่ March 3, 2012 ที่มา: pixabay



Objectives

1. สามารถแยกประเภทของพลังงานได้
2. สามารถบอกข้อดีและข้อเสียของพลังงานชนิดต่าง ๆ ได้



Bingo Game

ขอขอบคุณรูป Bingo

โดย OpenClipart-Vectors

เผยแพร่วันที่ October 9, 2013 ที่มา: pixabay

fossil fuels

natural gas

wind

oil

coal

solar

tidal

**Non-renewable
energy**

**alternative
energy**

solar panels

**ocean
biomass**

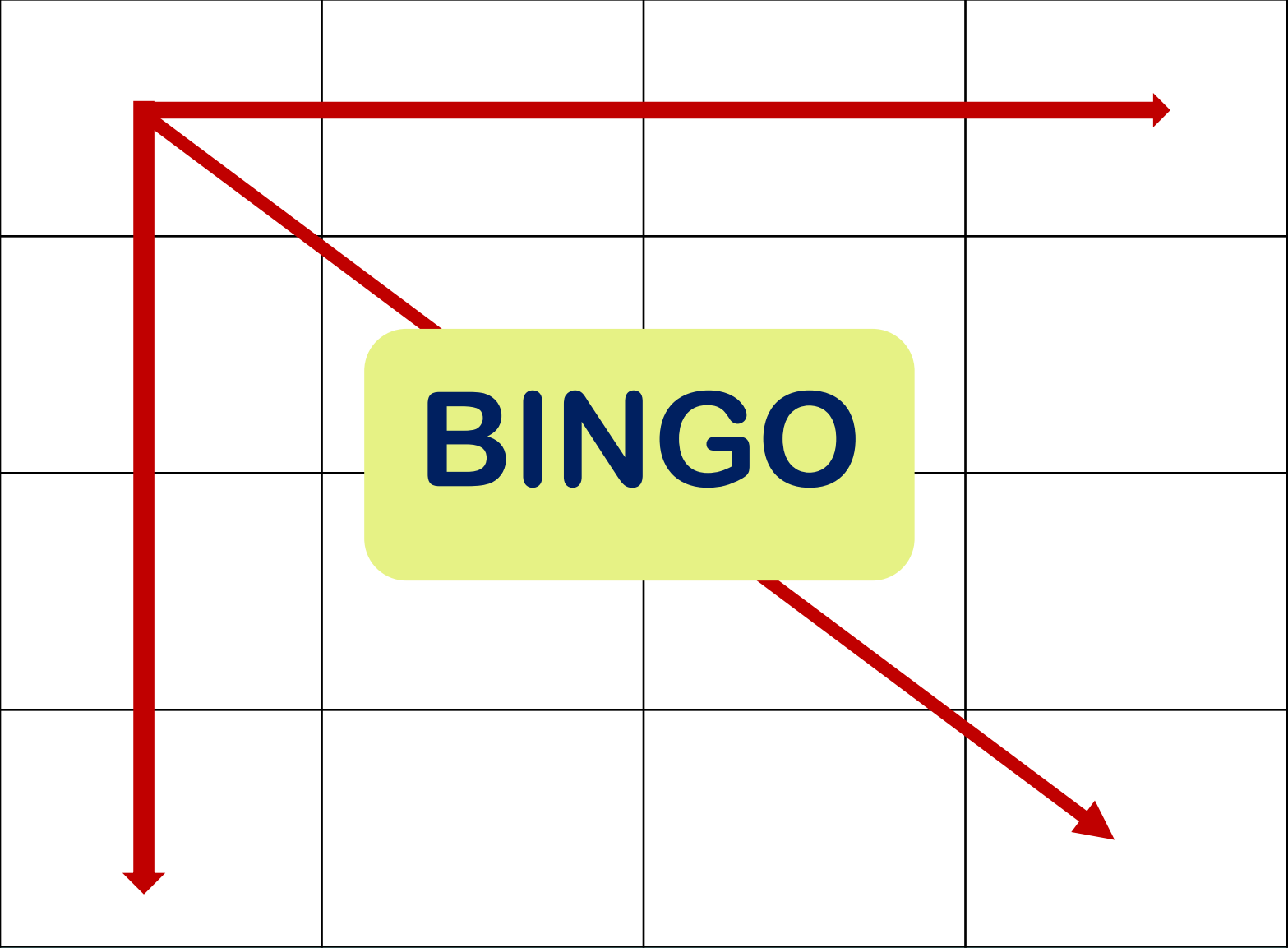
**Source of
energy**

Renewable energy

geothermal

nuclear

hydroelectric



Alternative Energy

ENERGY: It is the ability to do work.

We use energy every day in many different ways.

It is essential for our lives.

The gas we use to make a cup of coffee for breakfast is energy,



ขอขอบคุณรูป cooking โดย Pexels
เผยแพร่วันที่ March 27, 2017 ที่มา: pixabay

**the electricity that we use to give
us light is energy,**



ขอขอบคุณรูป light โดย ColiN00B
เผยแพร่วันที่ January 25, 2018 ที่มา: pixabay

**and the battery that powers our
mobile phone is energy.**



ขอขอบคุณรูป charging mobile phone โดย stokpic
เผยแพร่วันที่ January 20, 2015 ที่มา: pixabay

But *where* does
this energy come from?

Sources of Energy

Sources of energy are divided into 2 groups, Renewable energy and Non-renewable energy.

Renewable energy is a source which can be replenished and is always available. It continues to be available for use by humans Indefinitely.

Non-renewable energy is a source which cannot be replenished and eventually it will be used up. It disappears after the use and can't be used again.

Alternative Energy

Wind Energy is a good example of renewable energy. It is the transformation of wind energy into electricity, using wind turbines.

Wind turbines are normally grouped together in windy locations to form wind farms.

Nowadays, many countries are developing wind energy; in fact the electricity produced by wind power is increased by more than 40% in recent years.

This production only represents 1% of world-wide electricity use.

The world's largest offshore wind turbines are in Great Britain. The turbines are 70 meters high and provide electricity for 3,000 houses.

Solar Energy - Hot water solar panels

Solar energy is widely used today in many countries; many governments around the world are trying to encourage this alternative energy source. It comes from the sun. This energy will exist as long as the sun exists.



Exercise 48.1

Fill in the grid by using the following information.

Exercise 1

- oil
- wind
- solar
- coal
- natural gas
- tidal
- wood
- ocean
- biomass
- nuclear
- hydroelectric
- geothermal

Renewable energy	Non-renewable energy

Exercise 2: Wind turbines

- ruins the landscape
- do not pollute the air
- only work in windy countries
- injure birds
- can be noisy
- last a long time

Advantages	Disadvantages

Exercise 3: Solar panels

- don't work at night
- there are no fuel costs
- don't pollute
- it is safe
- take up a lot of space
- it is easy to use
- less sunshine and so less energy

Advantages	Disadvantages

Exercise 4: Oil energy

- very efficient
- produces a lot of air pollution
- easy to transport
- more and more difficult to find new reserves
- relatively safe
- expensive

Advantages	Disadvantages



Exercise 48.1

Review the answers.

Exercise 1

- oil
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- solar
- coal
- natural gas
- tidal
- wood
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QUOTE OF THE DAY

“Today’s wastage is tomorrow’s shortage so start now saving the earth for tomorrow may be too late.”

- Anonymous