



Eric is reading a display board about wind power. Read the display board.



Power the Future

1 What is wind power?

It refers to the process of generating electricity using wind. Wind power is a renewable energy. Unlike traditional energy sources such as coal, oil and natural gas, it is powered by wind, which is pollution free and never runs out!

2 How does wind power work?

Wind power is generated by wind turbines, the tall and large machines which look like fans with three narrow blades. When winds blow and move the blades, they create mechanical energy. A generator then **converts** such energy into electricity.

3 When did people start to use it?

Generating electricity with wind turbines has actually been practised for quite some time. The first wind turbine was built in Scotland in 1887 by a notable Scottish engineer, James Blyth.

With the advanced technology, wind power is now one of the largest renewable energy sources worldwide. Over the years, the turbine size has been largely increased in order to **generate** more electricity. In 2020, wind power accounted for around 6% of global electricity.

4 Why has it become more popular?

As climate change continues to worsen, people are more concerned about reducing the **emissions** of greenhouse gases as they intensify global warming. Fossil fuels, also known as 'dirty energy', emit greenhouse gases such as carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O) when they are burnt to produce electricity. In addition, they have a limited supply. Therefore, people have started to use green and **clean** energy, like wind power.

5 What is good about wind power?

- It is renewable. It is generated by wind and is therefore **inexhaustible**.
- It is a clean energy source. It emits neither any pollutants nor any greenhouse gases, so it can slow down global warming.



10 mins



Learn to develop ideas in a presentation.

DATE

Choose the best answers by blackening the circles.

- Which of the following is TRUE according to the display board?
 - A. The first turbine was built in the 1980s.
 - B. Only wind power is renewable.
 - C. Wind turbines are now larger.
 - D. Fossil fuels are no longer in use.
- In Section 4, what does the word 'clean' mean?

clean (adj.)

- not having dirty or unwanted marks
'He wears a clean white shirt every day.'
- not producing harmful substances
'Solar energy is a form of clean electricity.'
- not having done anything illegal
'He is considered a trustworthy witness with a completely clean record.'
- fair and done according to rules
'We ensure every team member is committed to clean competition.'



Tip
Q2: Read both the definitions and examples carefully.

- A. 1 B. 2 C. 3 D. 4



- In Section 5, the word 'inexhaustible' means '_____'.
 - A. natural
 - B. limitless
 - C. clean
 - D. replaceable

Answer the questions in complete sentences.

- What are wind turbines?

- Give two examples of greenhouse gases. What do they cause?

Fill in each blank with ONE word from the display board. Change the word form when necessary.

As global warming 6. _____, it threatens all living creatures on earth. We must urgently 7. _____ greenhouse gases emissions by using green energy instead of 8. _____ energy sources.