## LESSON SUMMARY

## Vocabulary (CD2 40)

| Word/Phrase | Meaning | Example |
|---|---|---|
| power plant (n) /ˈpaʊər plænt/ | a building where people produce electricity | In the past, people built a lot of **power plants** in developed countries. |
| wind turbine (n) /ˈwɪnd tɜːrbaɪn/ | a turbine that is driven by the wind | We can see the **wind turbines** on the horizon when you look out to sea. |
| solar panel (n) /ˌsoʊlər ˈpænəl/ | a device that changes energy from sunlight into electricity | Is it necessary to equip each house with a **solar panel**? |
| nuclear power (n) /ˌnuːkliər ˈpaʊər/ | nuclear energy considered as a source of electricity | **Nuclear power** is a major power source in South Korea. |
| dangerous (adj) /ˈdeɪndʒərəs/ | able to cause harm, death or unpleasant problems | Nuclear energy is both expensive and **dangerous**. |
| cheap to build /tʃiːp tu: bɪld/ | low price to make something | Coal plants are **cheap to build**. |
| expensive to run /ɪkˈspensɪv tu: ˈrʌn/ | costing a lot of money to operate | Solar power is not **expensive to run**. |
| clean to run /kliːn tu: rʌn/ | not dirty to operate | Nuclear power is **clean to run**. |
| noisy (adj) /ˈnɔɪzi/ | making a lot of noise | It can be **noisy** to live near wind turbines. |

## Grammar

### Conjunctions and & but

Usage

We use *and* or *but* to connect two or more words, phrases or clauses.

**and**

→ to add information or ideas

Renewable sources are solar power and wind power.

Non-renewable sources are oil, coal and natural gas.

**but**

→ to introduce a different idea or information

Nuclear power is clean, but it is dangerous.

Motorbikes are cheap and convenient, but they cause pollution.

# Pronunciation

## Sound changes 🎧 CD2 41

◆ *and* /ənd/ often sounds like /n/.

Nuclear power is dangerous and expensive to build.
Solar power is clean and cheap to run.

◆ **Some other examples of sound changes**

| alone | /ə'loʊn/ ➡ /loʊn/ | alive | /ə'laɪv/ ➡ /laɪv/ |
|---|---|---|---|
| apply | /ə'plaɪ/ ➡ /plaɪ/ | about | /ə'baʊt/ ➡ /baʊt/ |
| around | /ə'raʊnd/ ➡ /raʊnd/ | exactly | /ɪg'zæktli/ ➡ /'zæktli/ |

## PRACTICE

# Pronunciation

Circle the word that has a stress pattern pronounced differently from the others.

| | | | | |
|---|---|---|---|---|
| 1 | A cover | B affect | C pollute | D create |
| 2 | A better | B noisy | C renewable | D common |
| 3 | A option | B pollution | C reason | D power |
| 4 | A popular | B expensive | C difficult | D dangerous |
| 5 | A turbine | B problem | C nuclear | D environment |

# Vocabulary

**a. Match the words or phrases with their definitions.**

① run ○          ○ Ⓐ to influence
② create ○          ○ Ⓑ to operate
③ affect ○          ○ Ⓒ to invent something
④ wind turbine ○          ○ Ⓓ a building where people produce electricity
⑤ power plant ○          ○ Ⓔ a tall structure using the wind to make electricity

**b. Circle the correct options.**

6  Solar **power** / **coal** plants are cheap and clean to run, but they are expensive to build.
7  Wind turbines are also clean and cheap, but they make **pollution** / **noise** and need wind to run well.
8  People think that natural **gas** / **oil** is cleaner than coal. However, it still produces a lot of pollution.
9  Hydropower plants don't cause pollution, but they aren't **expensive** / **cheap** to build.
10 It can be better for countries to choose a **kind** / **mix** of energy sources.

# Grammar

**a. Fill in the blanks with *and* or *but*. Add a comma where necessary.**

1  Natural gas is cheap to build _____ it's expensive to run.
2  Hydropower is renewable _____ it's not cheap to build.
3  Coal is cheap and easy to use _____ it's non-renewable.
4  Gasoline motorbikes cause pollution _____ they are noisy to run.
5  Electric ovens are expensive _____ they use more electricity than microwave ovens.

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QKLSEF
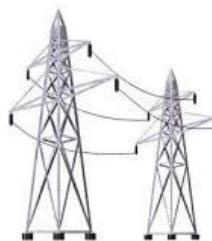
**b. Look at the table, tick (✓) the correct answer, cross (✗) the wrong one and correct it.**

|  | Advantages | Disadvantages |
|---|---|---|
| **" Electric cars "** | use cleaner energy<br>reduce pollution<br>quiet to run | expensive to buy<br>slower to run<br>hard to find a charging station<br>could not travel far<br>take more time to charge |
| **" Gasoline cars "** | cheap to buy<br>faster to run<br>could travel far<br>take less time to fill up gas<br>easy to look for a gas station | cause pollution<br>pay for gas<br>noisy to run<br>use non-renewable energy |
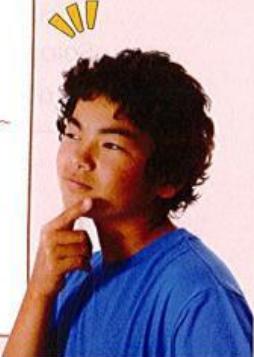
6   Electronic cars use cleaner energy, but they reduce pollution.
7   Electronic cars are quiet to run, and they couldn't travel far.
8   Gasoline cars are cheap to buy, and it's easy to repair them.
9   It takes less time to fill up gasoline cars, and you have to pay for gas.
10  Gasoline cars cause pollution, but it's easy to find a gas station.

## Reading

**a. Read the text about solar energy. Circle the best options.**

Among all energy sources, solar energy seems to have the least **1)** _____ effects on the environment. It does not pollute the water **2)** _____ send out greenhouse gases into the air. **3)** _____ from a nuclear power plant, a solar energy plant uses very little water. Producing solar energy seems to make no noise. That is a benefit because people living in cities tend to use a lot of solar energy. You can use less energy from the supplier when you can **4)** _____ your own electricity. As a result, you don't have to pay a lot for your **5)** _____ use. You can also make money by selling the electricity you don't use back to the supplier.

| | A | B | C | D |
|---|---|---|---|---|
| 1 | negative | positive | good | helpful |
| 2 | and | or | for | yet |
| 3 | Like | Unlike | Different | Alike |
| 4 | waste | take | buy | produce |
| 5 | water | electricity | Internet | natural gas |

**b. Read the text about wind farms. Complete each gap in the summary with ONE WORD from the text.**

A wind farm (*wind park*) is a collection of wind turbines in the same location used to produce electricity. Wind farms come in different sizes. A wind farm can include a small number of turbines or several hundred wind turbines covering a huge area. Wind farms can be either on the land or in the sea.

Wind farms have a lower environmental effect than many other sources of electricity because they do not require fuel. For that reason, people often consider wind farms a good source of green energy. However, people often criticize wind farms because they affect the landscape. Normally, wind farms need more land to build than other power stations. Wind farms are often in wild and rural areas, and people living in those areas believe the construction of a wind farm causes habitat loss and affects tourism.

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A wind farm has **6)** _____ sizes. Engineers can build a wind farm offshore or on **7)** _____. A wind farm does not have many **8)** _____ impacts. Wild and **9)** _____ areas are suitable for building wind parks. However, people are not excited about that because they think it causes habitat loss and affects the landscape and **10)** _____.

## Speaking

**Complete the conversation using the sentences in the box. There is one extra sentence.**

**Tom** Can you do me a favor, Dad?
**Dad** Of course. What can I do for you?
**Tom** What's renewable energy, Dad?
**Dad** 1) _____
**Tom** Why do we call them renewable energy?
**Dad** 2) _____
**Tom** How about fossil fuels?
**Dad** 3) _____
**Tom** Are they renewable energy, Dad?
**Dad** 4) _____
**Tom** Why do we call them non-renewables?
**Dad** 5) _____

A Yes, they are expensive.
B Well, because we can use them up, Tom.
C Coal and oil are fossil fuels. They take thousands of years to form.
D Because they can naturally refill themselves.
E Well, wind and solar power are renewable energy.
F No, I am afraid not. They are non-renewable energy.

## Writing

**a. Combine the sentences using _and_ or _but_. Add commas where necessary.**

1 Wind energy is clean. It is renewable, too.
_____
_____

2 Nuclear power is clean. It is dangerous.
_____
_____

3 Energy from coal is cheap to build. It is expensive to run.
_____
_____

4 Hydropower needs big rivers. It is expensive to build.
_____
_____

5 Natural gas is cheap to build. It creates some pollution.
_____
_____

**b. Make complete sentences using the prompts. Use _and_ or _but_ and add commas where necessary.**

6 Buses / be / cheap / crowded.
_____
_____

7 Our town / be / big and modern / it / be / noisy.
_____
_____

8 Nuclear power plants / produce / clean energy/ they / be / expensive to build.
_____
_____

9 Wind turbines / create / noise / need / windy weather / to work well.
_____
_____

10 Hydroelectric plants / not cause / pollution / they / affect / environment.
_____
_____

**Answer key**

- Pronunciation ____/10 pts.
- Vocabulary ____/20 pts.
- Grammar ____/20 pts.
- Reading ____/20 pts.
- Speaking ____/10 pts.
- Writing ____/20 pts.

**Total ____ / 100 pts.**

**LIVEWORKSHEETS**