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**Level 3 – 24th November, 2022**

## **Work starts on beaming solar energy from space**

**FREE online quizzes, mp3 listening and more for this lesson here:**

<https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

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**Please try Levels 0, 1 and 2 (they are easier).**

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# THE ARTICLE

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

The world is in a climate crisis. We need to change how we get our power. This means we need to end the use of fossil fuels, like oil and gas. The European Space Agency (ESA) has started on work that could provide millions of homes with clean energy. It has approved a three-year project to test huge solar farms in space. ESA engineers hope to send energy wirelessly from space into people's homes. Testing will take place over three years. An ESA spokesperson said one solar-farm satellite could create the same amount of electricity as a power station on Earth. She added that the aim is to have many of these giant satellites in orbit. They could cut our use of fossil fuels and reduce energy shortages.

The ESA project is called Solaris. The ESA states on its website that it wants to create "a clean and secure energy future for European citizens". Josef Aschbacher, the director-general of the ESA, told the BBC that solar power from space could be of "enormous" help. He said: "We need to convert into carbon-neutral economies and therefore change the way we produce energy. We especially need to reduce the fossil fuel part of our energy production." He added: "If you can do it from space, and I'm saying 'if we could,' because we are not there yet, this would be absolutely fantastic. It would solve a lot of problems." The satellites will be around 1.7 km long. The International Space Station is 110 m in length.

Sources: [https://www.esa.int/Enabling\\_Support/Space\\_Engineering\\_Technology/SOLARIS/SOLARIS2](https://www.esa.int/Enabling_Support/Space_Engineering_Technology/SOLARIS/SOLARIS2)  
<https://www.bbc.com/news/science-environment-62982113>  
<https://scitechdaily.com/esa-solaris-wireless-power-beamed-down-from-space/>

# WARM-UPS

**1. SOLAR ENERGY:** Students walk around the class and talk to other students about solar energy. Change partners often and share your findings.

**2. CHAT:** In pairs / groups, talk about these topics or words from the article. What will the article say about them? What can you say about these words and your life?

climate crisis / power / fossil fuels / oil / gas / solar farm / satellite / energy shortages  
project / future / space / carbon neutral / production / fantastic / problems / length

Have a chat about the topics you liked. Change topics and partners frequently.

**3. NO FOSSIL FUELS:** Students A **strongly** believe we should stop using all fossil fuels next year; Students B **strongly** believe this is impossible. Change partners again and talk about your conversations.

**4. GREEN FUEL:** What do you know about these green fuels? How efficient are they? Complete this table with your partner(s). Change partners often and share what you wrote.

	What I Know	Efficient
Solar energy		
Wave power		
Wind power		
Biofuel		
Hydroelectricity		
Nuclear power		

**5. SATELLITE:** Spend one minute writing down all of the different words you associate with the word "satellite". Share your words with your partner(s) and talk about them. Together, put the words into different categories.

**6. WIRELESS:** Rank these with your partner. Put the best wireless things at the top. Change partners often and share your rankings.

- Electricity
- Internet
- Speakers
- Ear buds
- Mouse
- Remote controls
- Garage door opener
- Radios

# VOCABULARY MATCHING

## Paragraph 1

- |                 |  |
|-----------------|--|
| 1. climate      | a. A time of big difficulty or danger.   |
| 2. crisis       | b. Make available for use; supply.   |
| 3. fossil fuels | c. A situation where we cannot get enough of the things we need.                           |
| 4. provide      | d. Things we use for power, like oil, gas and coal.  |
| 5. huge         | e. A human-made machine or thing put in space to collect information or for communication. |
| 6. satellite    | f. The weather in an area in general or over a long period of time.                        |
| 7. shortage     | g. Very, very big.   |

## Paragraph 2

- |               |  |
|---------------|--|
| 8. secure     | h. A person who holds (or can hold) a passport of a country. |
| 9. citizen    | i. Very, very big.   |
| 10. enormous  | j. Find an answer to a question or problem.                  |
| 11. convert   | k. Make smaller or less in amount, degree, or size.          |
| 12. reduce    | l. Change one thing into another thing.                      |
| 13. fantastic | m. Certain to stay safe.                                     |
| 14. solve     | n. Really, really great.                                     |

# BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

**1. TRUE / FALSE:** Read the headline. Guess if a-h below are true (T) or false (F).

1. The article says we need to charge how we get power. **T / F**
2. The European Space Agency has finished testing solar farms in space. **T / F**
3. Electricity from the solar farms will be available in three months. **T / F**
4. The space agency says it wants many space farms in orbit. **T / F**
5. The electricity will only be available for people in Europe. **T / F**
6. The agency said we need to become carbon-neutral economies. **T / F**
7. The agency said solar farms in space would solve many problems. **T / F**
8. A solar farm is over 10 times bigger than the International Space Station. **T / F**

**2. SYNONYM MATCH:** (The words in **bold** are from the news article.)

- |                      |                |
|----------------------|----------------|
| 1. <b>crisis</b>     | a. change      |
| 2. <b>provide</b>    | b. happen      |
| 3. <b>approved</b>   | c. safe        |
| 4. <b>take place</b> | d. supply      |
| 5. <b>aim</b>        | e. great       |
| 6. <b>secure</b>     | f. goal        |
| 7. <b>enormous</b>   | g. catastrophe |
| 8. <b>convert</b>    | h. work out    |
| 9. <b>fantastic</b>  | i. agreed to   |
| 10. <b>solve</b>     | j. very big    |

**3. PHRASE MATCH:** (Sometimes more than one choice is possible.)

- |  |                          |
|--|--------------------------|
| 1. The world is in a climate           | a. wirelessly from space |
| 2. It has approved a three-year        | b. fuel                  |
| 3. send energy                         | c. shortages             |
| 4. have many of these giant satellites | d. economies             |
| 5. reduce energy                       | e. in orbit              |
| 6. create a clean and secure energy    | f. lot of problems       |
| 7. carbon-neutral                      | g. crisis                |
| 8. fossil                              | h. fantastic             |
| 9. this would be absolutely            | i. future                |
| 10. solve a                            | j. project               |

# GAP FILL

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

The world is in a climate (1) \_\_\_\_\_. We need to change how we get our power. This means we need to end the use of (2) \_\_\_\_\_ fuels, like oil and gas. The European Space Agency (ESA) has started on work that could (3) \_\_\_\_\_ millions of homes with clean energy. It has (4) \_\_\_\_\_ a three-year project to test huge solar farms in space. ESA engineers hope to send energy (5) \_\_\_\_\_ from space into people's homes. Testing will take place over three years. An ESA spokesperson said one solar-farm (6) \_\_\_\_\_ could create the same amount of electricity as a power station on Earth. She added that the aim is to have many of these giant satellites in (7) \_\_\_\_\_. They could cut our use of fossil fuels and reduce energy (8) \_\_\_\_\_.

*approved*  
*fossil*  
*shortages*  
*crisis*  
*orbit*  
*provide*  
*satellite*  
*wirelessly*

The ESA project is called Solaris. The ESA states on its website that it wants to create "a clean and (9) \_\_\_\_\_ energy future for European citizens". Josef Aschbacher, the director-general of the ESA, told the BBC that (10) \_\_\_\_\_ power from space could be of "enormous" help. He said: "We need to (11) \_\_\_\_\_ into carbon-neutral economies and (12) \_\_\_\_\_ change the way we produce energy. We especially need to (13) \_\_\_\_\_ the fossil fuel part of our energy production." He added: "If you can do it from space, and I'm saying 'if we could,' because we are not there (14) \_\_\_\_\_, this would be absolutely fantastic. It would (15) \_\_\_\_\_ a lot of problems." The satellites will be around 1.7 km long. The International Space Station is 110 m in (16) \_\_\_\_\_.

*solar*  
*therefore*  
*length*  
*yet*  
*convert*  
*solve*  
*secure*  
*reduce*

# LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

- 1) The world is in a climate crisis. We need to change how we \_\_\_\_\_
  - a. get your power
  - b. get our powers
  - c. get our power
  - d. gets our power
- 2) It has approved a three-year project to test huge solar \_\_\_\_\_
  - a. farm sin space
  - b. fanzine space
  - c. far mines space
  - d. farms in space
- 3) ESA engineers hope to send energy wirelessly from space \_\_\_\_\_
  - a. unto people's homes
  - b. into people's homes
  - c. into peoples home
  - d. in two people's homes
- 4) She added that the aim is to have many of these giant \_\_\_\_\_
  - a. satellites in a bit
  - b. satellites inner bit
  - c. satellites in orbit
  - d. satellites in awe bit
- 5) They could cut our use of fossil fuels and \_\_\_\_\_
  - a. deduce energy shortages
  - b. reduce energy shortages
  - c. induce energy shortages
  - d. rid juice energy shortages
- 6) it wants to create a clean and secure energy future \_\_\_\_\_
  - a. for European citizen
  - b. for Europe citizens
  - c. four European citizens
  - d. for European citizens
- 7) ESA told the BBC that solar power from space could be \_\_\_\_\_
  - a. of enormous help
  - b. off enormous help
  - c. oft enormous help
  - d. of enormous helps
- 8) We especially need to reduce the \_\_\_\_\_
  - a. fossil fuel apart
  - b. fossil fuel pat
  - c. fossil fuel pert
  - d. fossil fuel part
- 9) I'm saying 'if we could,' because we are not there yet, this would \_\_\_\_\_
  - a. be absolute fantastic
  - b. be absolutely fan tasty
  - c. be absolutely fantastic
  - d. been absolute leafy artistic
- 10) The International Space Station is \_\_\_\_\_
  - a. 110 m on length
  - b. 110 m in length
  - c. 110 m sin length
  - d. 110 m in leant

# LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

The world is in (1) \_\_\_\_\_. We need to change how we get our power. This means we need to end the use of fossil fuels, (2) \_\_\_\_\_ gas. The European Space Agency (ESA) has started on work that could provide millions of homes with clean energy. It has approved a three-year project to test (3) \_\_\_\_\_ in space. ESA engineers hope to send energy wirelessly from space into people's homes. Testing will (4) \_\_\_\_\_ three years. An ESA spokesperson said one solar-farm satellite could create the same amount of electricity as a power station on Earth. She added that the aim is to have many of these giant (5) \_\_\_\_\_. They could cut our use of fossil fuels (6) \_\_\_\_\_ shortages.

The ESA project is called Solaris. The ESA (7) \_\_\_\_\_ website that it wants to create "a clean and (8) \_\_\_\_\_ for European citizens". Josef Aschbacher, the director-general of the ESA, told the BBC that solar power from space could (9) \_\_\_\_\_ help. He said: "We need (10) \_\_\_\_\_ carbon-neutral economies and therefore change the way we produce energy. We especially (11) \_\_\_\_\_ the fossil fuel part of our energy production." He added: "If you can do it from space, and I'm saying 'if we could,' because we are not there yet, this would (12) \_\_\_\_\_. It would solve a lot of problems." The satellites will be around 1.7 km long. The International Space Station is 110 m in length.



# COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

1. What does the article say we need to change?
2. How long will the space agency test the solar space farms?
3. What will one solar farm produce the same amount of energy as?
4. How many of the satellites does the agency want to have in space?
5. What kind of shortages could the ESA project reduce?
6. What's the name of the solar farm project?
7. Who might the solar farms give a secure energy future to?
8. What did an ESA spokesperson say we needed to convert into?
9. What did an ESA spokesperson say the solar farms would solve?
10. How long is a solar farm satellite?

# MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

- 1) What does the article say we need to change?
  - a) batteries
  - b) how we get power
  - c) how much electricity we use
  - d) electricity wires
- 2) How long will the space agency test the solar space farms?
  - a) a year
  - b) four years
  - c) two years
  - d) three years
- 3) What will one solar farm produce the same amount of energy as?
  - a) a power station
  - b) the Sun
  - c) 10,000 batteries
  - d) 10,000 electric cars
- 4) How many of the satellites does the agency want to have in space?
  - a) a dozen
  - b) a few
  - c) many
  - d) half a dozen
- 5) What kind of shortages could the ESA project reduce?
  - a) food shortages
  - b) energy shortages
  - c) battery shortages
  - d) wi-fi shortages
- 6) What's the name of the solar farm project?
  - a) Solaris
  - b) Polaris
  - c) Claris
  - d) Orbit
- 7) Who might the solar farms give a secure energy future to?
  - a) the world
  - b) CEOs
  - c) European citizens
  - d) rich people
- 8) What did an ESA spokesperson say we needed to convert into?
  - a) carbon-neutral economies
  - b) hydrogen
  - c) sustainable lifestyles
  - d) wireless lifestyles
- 9) What did an ESA spokesperson say the solar farms would solve?
  - a) a lot of problems
  - b) very little
  - c) everything
  - d) the meaning of life
- 10) How long is a solar farm satellite?
  - a) 110 m
  - b) 117 m
  - c) 11.7 km
  - d) 1.7 km

# ROLE PLAY

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

## **Role A – Electricity**

You think electricity is the best wireless thing. Tell the others three reasons why. Tell them why wireless isn't so necessary with their things. Also, tell the others which thing least requiring of wireless technology of these (and why): the Internet, ear buds or a computer mouse.

## **Role B – Internet**

You think the Internet is the best wireless thing. Tell the others three reasons why. Tell them why wireless isn't so necessary with their things. Also, tell the others which thing least requiring of wireless technology of these (and why): electricity, ear buds or a computer mouse.

## **Role C – Ear Buds**

You think ear buds are the best wireless things. Tell the others three reasons why. Tell them why wireless isn't so necessary with their things. Also, tell the others which thing least requiring of wireless technology of these (and why): the Internet, electricity or a computer mouse.

## **Role D – Computer Mouse**

You think a computer mouse is the best wireless thing. Tell the others three reasons why. Tell them why wireless isn't so necessary with their things. Also, tell the others which thing least requiring of wireless technology of these (and why): the Internet, ear buds or electricity.

# AFTER READING / LISTENING

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

**1. WORD SEARCH:** Look in your dictionary / computer to find collocates, other meanings, information, synonyms ... for the words 'solar' and 'energy'.

solar	energy

- Share your findings with your partners.
- Make questions using the words you found.
- Ask your partner / group your questions.

**2. ARTICLE QUESTIONS:** Look back at the article and write down some questions you would like to ask the class about the text.

- Share your questions with other classmates / groups.
- Ask your partner / group your questions.

**3. GAP FILL:** In pairs / groups, compare your answers to this exercise. Check your answers. Talk about the words from the activity. Were they new, interesting, worth learning...?

**4. VOCABULARY:** Circle any words you do not understand. In groups, pool unknown words and use dictionaries to find their meanings.

**5. TEST EACH OTHER:** Look at the words below. With your partner, try to recall how they were used in the text:

<ul style="list-style-type: none"><li>• crisis</li><li>• work</li><li>• huge</li><li>• homes</li><li>• station</li><li>• shortages</li></ul>	<ul style="list-style-type: none"><li>• website</li><li>• BBC</li><li>• convert</li><li>• part</li><li>• yet</li><li>• length</li></ul>
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# SOLAR ENERGY SURVEY

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

Write five GOOD questions about solar energy in the table. Do this in pairs. Each student must write the questions on his / her own paper.

When you have finished, interview other students. Write down their answers.

	STUDENT 1 _____	STUDENT 2 _____	STUDENT 3 _____
Q.1.			
Q.2.			
Q.3.			
Q.4.			
Q.5.			

- Now return to your original partner and share and talk about what you found out. Change partners often.
- Make mini-presentations to other groups on your findings.

# SOLAR ENERGY DISCUSSION

STUDENT A's QUESTIONS (Do not show these to student B)

1. What did you think when you read the headline?
2. What images are in your mind when you hear the word 'solar'?
3. What do you know about solar energy?
4. Why is the world in a climate crisis?
5. What do you think of fossil fuels?
6. What do you think of wireless solar energy from space?
7. Have you ever experienced an energy shortage?
8. Would you like wireless electricity to end all power cords?
9. What forms of clean energy do you use?
10. What's the best form of clean and green energy?

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# SOLAR ENERGY DISCUSSION

STUDENT B's QUESTIONS (Do not show these to student A)

11. Did you like reading this article? Why/not?
12. What do you think of when you hear the word 'energy'?
13. What do you think about what you read?
14. What do you think of solar energy?
15. How does the world get out of its climate crisis?
16. What can we use instead of fossil fuels?
17. What do you think of a wireless world for power and communications?
18. Do you think wireless electricity might be dangerous?
19. Where will the climate crisis be in 30 years from now?
20. What questions would you like to ask the scientists?

# DISCUSSION (Write your own questions)

STUDENT A's QUESTIONS (Do not show these to student B)

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_

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# DISCUSSION (Write your own questions)

STUDENT B's QUESTIONS (Do not show these to student A)

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_
- 4. \_\_\_\_\_
- 5. \_\_\_\_\_
- 6. \_\_\_\_\_

# LANGUAGE - CLOZE

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

The world is (1) \_\_\_\_\_ a climate crisis. We need to change how we get our power. This means we need to end the (2) \_\_\_\_\_ of fossil fuels, like oil and gas. The European Space Agency (ESA) has started on work that could (3) \_\_\_\_\_ millions of homes with clean energy. It has approved a three-year project to test huge solar farms (4) \_\_\_\_\_ space. ESA engineers hope to send energy wirelessly from space into people's homes. Testing will take place over three years. An ESA spokesperson said one solar-farm satellite could create the same amount of electricity (5) \_\_\_\_\_ a power station on Earth. She added that the aim is to have many of these giant satellites in (6) \_\_\_\_\_. They could cut our use of fossil fuels and reduce energy shortages.

The ESA project is called Solaris. The ESA (7) \_\_\_\_\_ on its website that it wants to create "a clean and secure energy future for European citizens". Josef Aschbacher, the director-general of the ESA, told the BBC that solar power from space could be of "(8) \_\_\_\_\_" help. He said: "We need to convert into carbon-neutral economies and therefore change the way we produce energy. We especially (9) \_\_\_\_\_ to reduce the fossil fuel part of our energy production." He added: "If you can do it from space, and I'm saying 'if we could,' because we are not there (10) \_\_\_\_\_, this would be absolutely fantastic. It would (11) \_\_\_\_\_ a lot of problems." The satellites will be around 1.7 km long. The International Space Station is 110 m in (12) \_\_\_\_\_.

## Put the correct words from the table below in the above article.

- |     |             |               |             |             |
|-----|-------------|---------------|-------------|-------------|
| 1.  | (a) in      | (b) of        | (c) by      | (d) at      |
| 2.  | (a) used    | (b) useful    | (c) use     | (d) useless |
| 3.  | (a) sell    | (b) order     | (c) provide | (d) cut     |
| 4.  | (a) at      | (b) by        | (c) of      | (d) in      |
| 5.  | (a) as      | (b) has       | (c) was     | (d) is      |
| 6.  | (a) habit   | (b) orbit     | (c) debit   | (d) credit  |
| 7.  | (a) slants  | (b) stats     | (c) starts  | (d) states  |
| 8.  | (a) giant   | (b) enormous  | (c) hugely  | (d) biggish |
| 9.  | (a) needy   | (b) necessary | (c) need    | (d) needing |
| 10. | (a) before  | (b) already   | (c) still   | (d) yet     |
| 11. | (a) salvo   | (b) solution  | (c) soluble | (d) solve   |
| 12. | (a) longing | (b) length    | (c) long    | (d) lengthy |



# SPELLING

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

## Paragraph 1

1. The world is in a climate rsciis
2. rovpipe millions of homes with clean energy
3. send energy esslriwely
4. the same numato of electricity
5. many of these giant iasteletsI in orbit
6. energy sagstorhe

## Paragraph 2

7. energy future for European tziinesc
8. be of enormuso help
9. We especially need to eurcd the fossil fuel part
10. this would be absolutely tacnatsif
11. It would olsve a lot of problems
12. 110 m in ghnlte

# PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

**Number these lines in the correct order.**

- ( ) of electricity as a power station on Earth. She added that the aim is to have many of
- ( ) The ESA project is called Solaris. The ESA states on its website that it wants to create "a clean and secure energy
- ( ) these giant satellites in orbit. They could cut our use of fossil fuels and reduce energy shortages.
- ( ) from space could be of "enormous" help. He said: "We need to convert into carbon-neutral economies and therefore change
- ( ) on work that could provide millions of homes with clean energy. It has approved a three-year project to test huge
- ( ) end the use of fossil fuels, like oil and gas. The European Space Agency (ESA) has started
- ( **1** ) The world is in a climate crisis. We need to change how we get our power. This means we need to
- ( ) "If you can do it from space, and I'm saying 'if we could,' because we are not there
- ( ) yet, this would be absolutely fantastic. It would solve a lot of problems." The satellites will
- ( ) solar farms in space. ESA engineers hope to send energy wirelessly from space into people's
- ( ) be around 1.7 km long. The International Space Station is 110 m in length.
- ( ) the way we produce energy. We especially need to reduce the fossil fuel part of our energy production." He added:
- ( ) future for European citizens". Josef Aschbacher, the director-general of the ESA, told the BBC that solar power
- ( ) homes. Testing will take place over three years. An ESA spokesperson said one solar-farm satellite could create the same amount

# PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

1. world is The a climate crisis. in
2. like fuels End use the oil. of fossil
3. It homes of clean energy. millions with provides
4. space wirelessly from energy into people's homes. Send
5. satellites these in Have of many giant orbit.
6. energy clean a and Create secure future.
7. is enormous of Solar space help. power from
8. part. reduce We to fuel need fossil the
9. you can space. it do If from
10. would a problems. of It solve lot

# CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

The world is in a climate *crises / crisis*. We need to change how we get our power. This means we need to end the *used / use* of fossil fuels, like oil and gas. The European Space Agency (ESA) has started *on / in* work that could provide millions of homes with *clean / cleaning* energy. It has *approved / approval* a three-year project to test huge solar farms in space. ESA engineers hope to send energy *wireless / wirelessly* from space into people's homes. Testing will *give / take* place over three years. An ESA spokesperson said one solar-farm satellite could create the *same / near* amount of electricity as a power station on Earth. She added that the aim is to *be / have* many of these giant satellites in orbit. They could cut our use of fossil fuels and reduce energy *shorts / shortages*.

The ESA project is *called / calling* Solaris. The ESA states on its website that it wants to create "a clean and secure *energy / energetic* future for European citizens". Josef Aschbacher, the director-general of the ESA, *said / told* the BBC that solar power from space could be *of / to* "enormous" help. He said: "We need to convert *onto / into* carbon-neutral economies and therefore change the way we produce energy. We especially need to *increase / reduce* the fossil fuel part of our energy *prediction / production*." He added: "If you can do it from space, and I'm saying 'if we could,' because we are not there *yet / already*, this would be absolutely fantastic. It would *solve / absolve* a lot of problems." The satellites will be around 1.7 km long. The International Space Station is 110 m in *longing / length*.

**Talk about the connection between each pair of words in italics, and why the correct word is correct. Look up the definition of new words.**

# INSERT THE VOWELS (a, e, i, o, u)

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Th\_ w\_rld \_s \_n \_ cl\_m\_t\_ cr\_s\_s. W\_ n\_\_d t\_ ch\_ng\_ h\_w w\_ g\_t \_\_r p\_w\_r. Th\_s m\_\_ns w\_ n\_\_d t\_ \_nd th\_ \_s\_ \_f f\_ss\_l f\_\_ls, l\_k\_ \_\_l \_nd g\_s. Th\_ \_\_r\_p\_\_n Sp\_c\_ \_g\_ncy (\_S\_) h\_s st\_rt\_d \_n w\_rk th\_t c\_\_ld pr\_v\_d\_ m\_ll\_\_ns \_f h\_m\_s w\_th cl\_\_n \_n\_rgy. \_t h\_s \_ppr\_v\_d \_ thr\_\_-y\_\_r pr\_j\_ct t\_ t\_st h\_g\_ s\_l\_r f\_rms \_n sp\_c\_. \_S\_ \_ng\_n\_\_rs h\_p\_ t\_ s\_nd \_n\_rgy w\_r\_l\_ssy fr\_m sp\_c\_ \_nt\_ p\_\_pl\_'s h\_m\_s. T\_st\_ng w\_ll t\_k\_ pl\_c\_ \_v\_r thr\_\_ y\_\_rs. \_n \_S\_ sp\_k\_sp\_rs\_n s\_\_d \_n\_ s\_l\_r-f\_rm s\_t\_ll\_t\_ c\_\_ld cr\_\_t\_ th\_ s\_m\_ \_m\_\_nt \_f \_l\_ctr\_c\_ty \_s \_ p\_w\_r st\_t\_\_n \_n \_\_rth. Sh\_ \_dd\_d th\_t th\_ \_\_m \_s t\_ h\_v\_ m\_ny \_f th\_s\_ g\_\_nt s\_t\_ll\_t\_s \_n \_rb\_t. Th\_y c\_\_ld c\_t \_\_r \_s\_ \_f f\_ss\_l f\_\_ls \_nd r\_d\_c\_ \_n\_rgy sh\_rt\_g\_s.

Th\_ \_S\_ pr\_j\_ct \_s c\_ll\_d S\_l\_r\_s. Th\_ \_S\_ st\_t\_s \_n \_ts w\_bs\_t\_ th\_t \_t w\_nts t\_ cr\_\_t\_ "\_ cl\_\_n \_nd s\_c\_r\_ \_n\_rgy f\_t\_r\_ fr\_ \_\_r\_p\_\_n c\_t\_z\_ns". J\_s\_f \_schb\_ch\_r, th\_ d\_r\_ct\_r-g\_n\_r\_l \_f th\_ \_S\_, t\_ld th\_ BBC th\_t s\_l\_r p\_w\_r fr\_m sp\_c\_ c\_\_ld b\_ \_f "\_n\_rm\_\_s" h\_lp. H\_ s\_\_d: "W\_ n\_\_d t\_ c\_nv\_rt \_nt\_ c\_rb\_n-n\_\_tr\_l \_c\_n\_m\_\_s \_nd th\_r\_f\_r\_ ch\_ng\_ th\_ w\_y w\_ pr\_d\_c\_ \_n\_rgy. W\_ \_sp\_c\_\_lly n\_\_d t\_ r\_d\_c\_ th\_ f\_ss\_l f\_\_l p\_rt \_f \_\_r \_n\_rgy pr\_d\_ct\_\_n." H\_ \_dd\_d: "\_f y\_\_ c\_n d\_ \_t fr\_m sp\_c\_, \_nd \_'m s\_y\_ng 'f w\_ c\_\_ld,' b\_c\_\_s\_ w\_ \_r\_ n\_t th\_r\_ y\_t, th\_s w\_\_ld b\_ \_bs\_l\_t\_ly f\_nt\_st\_c. \_t w\_\_ld s\_lv\_ \_ l\_t \_f pr\_bl\_ms." Th\_ s\_t\_ll\_t\_s w\_ll b\_ \_r\_\_nd 1.7 km l\_ng. Th\_ \_nt\_rn\_t\_\_n\_l Sp\_c\_ St\_t\_\_n \_s 110 m \_n l\_ngth.

# PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

the world is in a climate crisis we need to change how we get our power this means we need to end the use of fossil fuels like oil and gas the european space agency esa has started on work that could provide millions of homes with clean energy it has approved a threeyear project to test huge solar farms in space esa engineers hope to send energy wirelessly from space into peoples homes testing will take place over three years an esa spokesperson said one solarfarm satellite could create the same amount of electricity as a power station on earth she added that the aim is to have many of these giant satellites in orbit they could cut our use of fossil fuels and reduce energy shortages

the esa project is called solaris the esa states on its website that it wants to create a clean and secure energy future for european citizens josef aschbacher the directorgeneral of the esa told the bbc that solar power from space could be of enormous help he said we need to convert into carbonneutral economies and therefore change the way we produce energy we especially need to reduce the fossil fuel part of our energy production he added if you can do it from space and im saying if we could because we are not there yet this would be absolutely fantastic it would solve a lot of problems the satellites will be around 17 km long the international space station is 110 m in length

# PUT A SLASH ( / ) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/2211/221124-solar-energy-from-space.html>

The world is in a climate crisis. We need to change how we get our power. This means we need to end the use of fossil fuels, like oil and gas. The European Space Agency (ESA) has started on work that could provide millions of homes with clean energy. It has approved a three-year project to test huge solar farms in space. ESA engineers hope to send energy wirelessly from space into people's homes. Testing will take place over three years. An ESA spokesperson said one solar-farm satellite could create the same amount of electricity as a power station on Earth. She added that the aim is to have many of these giant satellites in orbit. They could cut our use of fossil fuels and reduce energy shortages. The ESA project is called Solaris. The ESA states on its website that it wants to create "a clean and secure energy future for European citizens". Josef Aschbacher, the director-general of the ESA, told the BBC that solar power from space could be of "enormous" help. He said: "We need to convert into carbon-neutral economies and therefore change the way we produce energy. We especially need to reduce the fossil fuel part of our energy production." He added: "If you can do it from space, and I'm saying 'if we could,' because we are not there yet, this would be absolutely fantastic. It would solve a lot of problems." The satellite will be around 1.7 km long. The International Space Station is 110 m in length.







# HOMEWORK

**1. VOCABULARY EXTENSION:** Choose several of the words from the text. Use a dictionary or Google's search field (or another search engine) to build up more associations / collocations of each word.

**2. INTERNET:** Search the Internet and find out more about this news story. Share what you discover with your partner(s) in the next lesson.

**3. SOLAR ENERGY:** Make a poster about solar energy. Show your work to your classmates in the next lesson. Did you all have similar things?

**4. END FOSSIL FUELS:** Write a magazine article about ending the use of fossil fuels next year. Include imaginary interviews with people who are for and against this.

Read what you wrote to your classmates in the next lesson. Write down any new words and expressions you hear from your partner(s).

**5. WHAT HAPPENED NEXT?** Write a newspaper article about the next stage in this news story. Read what you wrote to your classmates in the next lesson. Give each other feedback on your articles.

**6. LETTER:** Write a letter to an expert on solar energy. Ask him/her three questions about solar energy. Give him/her three of your ideas. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

# ANSWERS

## VOCABULARY (p.4)

1. f    2. a    3. d    4. b    5. g    6. e    7. c  
8. m    9. h    10. i    11. l    12. k    13. n    14. j

## TRUE / FALSE (p.5)

- 1 F    2 F    3 F    4 T    5 T    6 T    7 T    8 T

## SYNONYM MATCH (p.5)

1. g	2. d	3. i	4. b	5. f
6. c	7. j	8. a	9. e	10. h

## COMPREHENSION QUESTIONS (p.9)

- How we get power
- Three years
- A power station
- Many
- Energy shortages
- Solaris
- European citizens
- Carbon-neutral economies
- A lot of problems
- 1.7 km

## WORDS IN THE RIGHT ORDER (p.19)

- The world is in a climate crisis.
- End the use of fossil fuels like oil.
- It provides millions of homes with clean energy.
- Send energy wirelessly from space into people's homes.
- Have many of these giant satellites in orbit.
- Create a clean and secure energy future.
- Solar power from space is of enormous help.
- We need to reduce the fossil fuel part.
- If you can do it from space.
- It would solve a lot of problems.

## MULTIPLE CHOICE - QUIZ (p.10)

1. b    2. d    3. a    4. c    5. b    6. a    7. c    8. a    9. a    10. d

## ALL OTHER EXERCISES

Please check for yourself by looking at the Article on page 2.  
(It's good for your English ;-)