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Level 6 – 17th April, 2019

Japan starts nuclear fuel removal from Fukushima

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<https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

Contents

The Article	2	Discussion (Student-Created Qs)	15
Warm-Ups	3	Language Work (Cloze)	16
Vocabulary	4	Spelling	17
Before Reading / Listening	5	Put The Text Back Together	18
Gap Fill	6	Put The Words In The Right Order	19
Match The Sentences And Listen	7	Circle The Correct Word	20
Listening Gap Fill	8	Insert The Vowels (a, e, i, o, u)	21
Comprehension Questions	9	Punctuate The Text And Add Capitals	22
Multiple Choice - Quiz	10	Put A Slash (/) Where The Spaces Are	23
Role Play	11	Free Writing	24
After Reading / Listening	12	Academic Writing	25
Student Survey	13	Homework	26
Discussion (20 Questions)	14	Answers	27

Please try Levels 4 and 5 (they are easier).

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THE ARTICLE

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

The Tokyo Electric Power Company (Tepco) has started removing fuel rods from Japan's stricken Fukushima No. 1 nuclear power plant. Tepco is the company that operates the nuclear power plant. It was badly damaged and suffered meltdowns following being hit by a massive earthquake and tsunami in 2011. Tepco started the removal of the nuclear fuel on Monday, five years behind schedule. The work to remove and relocate the hazardous rods was delayed because of a whole series of malfunctions of the devices that had been designed for the removal operation. Another factor that caused delays was high levels of radiation observed in the area. Tepco said this posed a "significant challenge" for engineers.

Tepco said it is removing seven unspent nuclear fuel rods from the reactor's pool. There are a total of 1,573 spent and unspent fuel rods stored at the power plant. The rods will be transferred to safer storage pools at the plant. Tepco said the work would be completed by the end of March 2021. A company spokesman, Tomohiko Isogai, said: "I believe everything is going well so far. We will watch the progress at the site as we put safety first. Our goal is not to rush the process but to carefully proceed with the decommissioning work." Another spokesman said: "Safety is our priority. We will carefully continue this work." Prime Minister Shinzo Abe said Japan would do its best to rebuild the area.

Sources: <https://www.japantimes.co.jp/news/2019/04/15/national/tepco-begins-removing-fuel-rods-unit-3-reactor-pool-crippled-fukushima-nuclear-plant/>
<https://japantoday.com/category/national/removal-of-fuel-in-pool-at-fukushima-s-melted-reactor-begins>
<https://news.yahoo.com/nuclear-fuel-removed-crippled-japan-plant-034119163.html>

WARM-UPS

1. NUCLEAR POWER: Students walk around the class and talk to other students about nuclear power. 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?

electric / power / fuel / damage / meltdowns / earthquake / schedule / device / delays
reactor / storage / company / progress / safety / decommissioning / priority / rebuild

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

3. NUCLEAR: Students A **strongly** believe nuclear is the way to go; Students B **strongly** believe it isn't. Change partners again and talk about your conversations.

4. POWER: What are the pros and cons of these kinds of power? Complete this table with your partner(s). Change partners often and share what you wrote.

	Pros	Cons
Nuclear		
Wind		
Solar		
Coal		
Wave		
Biofuel		

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

6. HAZARDOUS JOBS: Rank these with your partner. Put the best at the top. Change partners often and share your rankings.

- nuclear waste removal
- stunt performer
- F1 driver
- soldier
- miner
- construction worker
- deep-sea diver
- crocodile farmer

VOCABULARY MATCHING

Paragraph 1

- | | |
|----------------|--|
| 1. rod | a. Seriously affected by an undesirable condition. |
| 2. stricken | b. The energy transmitted by radiation, as heat, light, electricity, etc. |
| 3. meltdown | c. An accident in a nuclear reactor in which the fuel overheats and melts the insides. |
| 4. massive | d. A thin straight bar, especially of wood or metal. |
| 5. hazardous | e. Very, very big. |
| 6. malfunction | f. Risky; dangerous. |
| 7. radiation | g. A failure to work properly in a normal or satisfactory way. |

Paragraph 2

- | | |
|---------------------|---|
| 8. reactor | h. Taking a nuclear reactor or weapon out of action to make it safe and no longer able to work. |
| 9. spent | i. Begin or continue a course of action. |
| 10. storage | j. Advance or development toward a better, more complete, or more modern condition. |
| 11. progress | k. A structure or tower in which atomic material can be turned into energy. |
| 12. proceed | l. The fact or condition of being thought of or treated as being more important. |
| 13. decommissioning | m. Used up; having no power or energy left. |
| 14. priority | n. Space available for keeping something over a long time. |

BEFORE READING / LISTENING

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

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

- a. Nuclear fuel rods are being removed from Fukushima's No. 3 plant. **T / F**
- b. The removal of the fuel rods is five years behind schedule. **T / F**
- c. There were problems with the devices that were made for the removal. **T / F**
- d. One reason for the delay is high levels of radiation in the area. **T / F**
- e. There are more than 1,500 rods at Fukushima's nuclear power plant. **T / F**
- f. Work on removing the fuel rods will finish at the end of 2020. **T / F**
- g. A power company worker said the company is in a hurry to finish. **T / F**
- h. Japan's Prime Minister said the area would not be rebuilt. **T / F**

2. SYNONYM MATCH:

Match the following synonyms. The words in **bold** are from the news article.

- | | |
|---------------------|------------------|
| 1. stricken | a. enormous |
| 2. suffered | b. reconstruct |
| 3. massive | c. dangerous |
| 4. hazardous | d. development |
| 5. posed | e. prime concern |
| 6. spent | f. troubled |
| 7. progress | g. procedure |
| 8. process | h. exhausted |
| 9. priority | i. experienced |
| 10. rebuild | j. raised |

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

- | | |
|--------------------------------------|----------------------------|
| 1. started removing fuel | a. radiation |
| 2. meltdowns following being hit by | b. going well so far |
| 3. delayed because of a whole series | c. unspent fuel rods |
| 4. high levels of | d. safer storage pools |
| 5. this posed a significant | e. rods |
| 6. a total of 1,573 spent and | f. work |
| 7. The rods will be transferred to | g. a massive earthquake |
| 8. I believe everything is | h. to rebuild the area |
| 9. proceed with the decommissioning | i. challenge for engineers |
| 10. Japan would do its best | j. of malfunctions |

GAP FILL

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

The Tokyo Electric Power Company (Tepco) has started removing fuel (1) _____ from Japan's stricken Fukushima No. 1 nuclear power plant. Tepco is the company that (2) _____ the nuclear power plant. It was badly damaged and suffered (3) _____ following being hit by a (4) _____ earthquake and tsunami in 2011. Tepco started the removal of the nuclear fuel on Monday, five years (5) _____ schedule. The work to remove and relocate the hazardous rods was delayed because of a (6) _____ series of malfunctions of the devices that had been designed for the (7) _____ operation. Another factor that caused delays was high levels of radiation observed in the area. Tepco said this (8) _____ a "significant challenge" for engineers.

whole
operates
massive
posed
rods
removal
behind
meltdowns

Tepco said it is removing seven (9) _____ nuclear fuel rods from the reactor's pool. There are a total of 1,573 spent and unspent fuel rods (10) _____ at the power plant. The rods will be transferred to safer storage (11) _____ at the plant. Tepco said the work would be completed by the (12) _____ of March 2021. A company spokesman, Tomohiko Isogai, said: "I believe everything is going well so (13) _____. We will watch the progress at the site as we put safety first. Our goal is not to rush the process but to carefully (14) _____ with the decommissioning work." Another spokesman said: "Safety is our priority. We will (15) _____ continue this work." Prime Minister Shinzo Abe said Japan would do its (16) _____ to rebuild the area.

stored
end
proceed
unspent
best
pools
carefully
far

LISTENING – Guess the answers. Listen to check.

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

- 1) started removing fuel rods from Japan's _____ No. 1
 - a. strychnine Fukushima
 - b. striking Fukushima
 - c. stricken Fukushima
 - d. sticking Fukushima
- 2) damaged and suffered meltdowns following being hit _____ earthquake
 - a. by a missive
 - b. by a mass sieve
 - c. by amass sieve
 - d. by a massive
- 3) started the removal of the nuclear fuel on Monday, five _____ schedule
 - a. years behind
 - b. years before
 - c. years be kind
 - d. years beyond
- 4) The work to remove and relocate the hazardous _____
 - a. rods was displayed
 - b. rods was relayed
 - c. rods was delayed
 - d. rods was replayed
- 5) Another factor that caused delays was high levels of radiation observed _____
 - a. in the area
 - b. in the arena
 - c. in the aura
 - d. in the aurora
- 6) Tepco said it is removing seven unspent nuclear fuel rods from _____
 - a. the reaction's pool
 - b. the reaction spool
 - c. the reacts are pool
 - d. the reactor's pool
- 7) a total of 1,573 spent and unspent fuel rods stored at _____
 - a. the powers plant
 - b. the power plant
 - c. the powder plant
 - d. the powdered plant
- 8) everything is going well so far. We will watch the progress at the site as we _____
 - a. put safely first
 - b. put safe tea first
 - c. puts safety first
 - d. put safety first
- 9) Another spokesman said: "Safety _____"
 - a. is our priority
 - b. is our prioritize
 - c. is a priori tee
 - d. is our prior rating
- 10) Prime Minister Shinzo Abe said Japan would do its best to _____
 - a. rebuilds the area
 - b. rebuilt the area
 - c. rebuild the area
 - d. rib build the area

LISTENING – Listen and fill in the gaps

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

The Tokyo Electric Power Company (Tepco) (1) _____ fuel rods from Japan's stricken Fukushima No. 1 nuclear power plant. Tepco is the company (2) _____ nuclear power plant. It was badly damaged and suffered meltdowns following (3) _____ a massive earthquake and tsunami in 2011. Tepco started the removal of the nuclear fuel on Monday, (4) _____ schedule. The work to remove and relocate the hazardous rods was delayed because of a whole series of malfunctions of the devices that had been designed (5) _____ operation. Another factor that caused delays was high levels of radiation observed in the area. Tepco said (6) _____ "significant challenge" for engineers.

Tepco said it is removing seven (7) _____ rods from the reactor's pool. There are a total of 1,573 spent and unspent fuel rods stored at the power plant. The rods will be transferred (8) _____ pools at the plant. Tepco said the work would be completed by the end of March 2021. A company spokesman, Tomohiko Isogai, said: "I believe everything is going (9) _____. We will watch the progress at the site as we put safety first. Our goal is (10) _____ the process but to carefully proceed with the decommissioning work." Another spokesman said: "Safety (11) _____. We will carefully continue this work." Prime Minister Shinzo Abe said Japan would do its (12) _____ the area.

COMPREHENSION QUESTIONS

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

1. Which Fukushima power plant is having fuel rods removed?
2. What did the power plant suffer after a 2011 tsunami?
3. How far behind schedule is the removal work?
4. What happened to the devices that were designed for the removal?
5. What did workers observe high levels of in the area?
6. How many fuel rods are workers currently removing?
7. How many spent and unspent fuel rods are there in total at the plant?
8. When will the removal work be completed?
9. What did a power company say they would put first?
10. What did Japan's leader say the country would do its best to do?

MULTIPLE CHOICE - QUIZ

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

- 6) How many fuel rods are workers currently removing?
- a) 5
 - b) 7
 - c) 3
 - d) 6
- 7) How many spent and unspent fuel rods are there in total at the plant?
- a) 1,537
 - b) 1,753
 - c) 1,357
 - d) 1,573
- 8) When will the removal work be completed?
- a) by the end of April 2022
 - b) by the end of March 2021
 - c) by the end of May 2020
 - d) by the end of August 2023
- 9) What did a power company say they would put first?
- a) safety
 - b) profits
 - c) workers
 - d) residents
- 10) What did Japan's leader say the country would do its best to do?
- a) move forward
 - b) pay compensation
 - c) build more power stations
 - d) rebuild the area
- 1) Which Fukushima power plant is having fuel rods removed?
- a) No. 2
 - b) No. 4
 - c) No. 1
 - d) No. 3
- 2) What did the power plant suffer after a 2011 tsunami?
- a) meltdowns
 - b) power surges
 - c) power outages
 - d) rust
- 3) How far behind schedule is the removal work?
- a) two years
 - b) four years
 - c) three years
 - d) five years
- 4) What happened to the devices that were designed for the removal?
- a) they wouldn't start
 - b) they malfunctioned
 - c) they got lost
 - d) they needed software updates
- 5) What did workers observe high levels of in the area?
- a) panic
 - b) sea water
 - c) radiation
 - d) salt

ROLE PLAY

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

Role A – Nuclear Waste Remover

You think a nuclear waste remover is the most dangerous job. Tell the others three reasons why. Tell them why their jobs aren't as dangerous. Also, tell the others which is the least dangerous of these (and why): F1 driver, deep-sea diver or crocodile farmer.

Role B – F1 Driver

You think an F1 driver is the most dangerous job. Tell the others three reasons why. Tell them why their jobs aren't as dangerous. Also, tell the others which is the least dangerous of these (and why): nuclear waste remover, deep-sea diver or crocodile farmer.

Role C – Deep-Sea Diver

You think a deep-sea diver is the most dangerous job. Tell the others three reasons why. Tell them why their jobs aren't as dangerous. Also, tell the others which is the least dangerous of these (and why): F1 driver, nuclear waste remover or crocodile farmer.

Role D – Crocodile Farmer

You think a crocodile farmer is the most dangerous job. Tell the others three reasons why. Tell them why their jobs aren't as dangerous. Also, tell the others which is the least dangerous of these (and why): F1 driver, deep-sea diver or nuclear waste remover.

AFTER READING / LISTENING

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

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

nuclear	fuel

- 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">• started• badly• five• whole• another• posed	<ul style="list-style-type: none">• seven• total• end• far• priority• area
--	---

NUCLEAR POWER SURVEY

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

Write five GOOD questions about nuclear power 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.

NUCLEAR POWER 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 'nuclear'?
3. What do you think of nuclear power?
4. What do you know about the Fukushima accident?
5. How safe is nuclear power?
6. How comfortable would you feel living next to a nuclear reactor?
7. Would you work at a nuclear power plant?
8. How dangerous is the work of removing the fuel rods?
9. How scary is radiation?
10. What do you know about nuclear power?

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NUCLEAR POWER 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 'power'?
13. What do you think about what you read?
14. What kind of power does your country use?
15. What is the best form of alternative energy?
16. What do you know about the history of nuclear power?
17. Would you rather have nuclear power or coal power?
18. How can the company make sure its workers are totally safe?
19. What advice do you have for the people of Fukushima?
20. What questions would you like to ask the Tepco engineers?

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/1904/190417-nuclear-reactor.html>

The Tokyo Electric Power Company (Tepco) has started removing fuel rods from Japan's (1) _____ Fukushima No. 1 nuclear power plant. Tepco is the company that operates the nuclear power plant. It was (2) _____ damaged and suffered meltdowns following being hit (3) _____ a massive earthquake and tsunami in 2011. Tepco started the removal of the nuclear fuel on Monday, five years behind schedule. The work to remove and relocate the hazardous rods was (4) _____ because of a whole series of malfunctions of the devices that had been designed (5) _____ the removal operation. Another factor that caused delays was high levels of radiation observed in the area. Tepco said this posed a "(6) _____ challenge" for engineers.

Tepco said it is removing seven unspent nuclear fuel rods from the reactor's pool. There are a (7) _____ of 1,573 spent and unspent fuel rods stored at the power plant. The rods will be transferred to safer (8) _____ pools at the plant. Tepco said the work would be completed by the end of March 2021. A company spokesman, Tomohiko Isogai, said: "I believe everything is going (9) _____ so far. We will watch the progress at the site (10) _____ we put safety first. Our goal is not to rush the process but to carefully proceed with the decommissioning work." Another spokesman said: "Safety is our (11) _____. We will carefully continue this work." Prime Minister Shinzo Abe said Japan would do its best to rebuild the (12) _____.

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

- | | | | | |
|-----|-------------------|------------------|-----------------|----------------|
| 1. | (a) striking | (b) stricken | (c) stuck | (d) sticking |
| 2. | (a) bad | (b) badly | (c) badass | (d) baddie |
| 3. | (a) to | (b) on | (c) at | (d) by |
| 4. | (a) deployed | (b) delayed | (c) relayed | (d) displayed |
| 5. | (a) at | (b) of | (c) on | (d) for |
| 6. | (a) significantly | (b) significance | (c) significant | (d) signifying |
| 7. | (a) total | (b) totality | (c) total | (d) totally |
| 8. | (a) stored | (b) stores | (c) storage | (d) storing |
| 9. | (a) so | (b) far | (c) good | (d) well |
| 10. | (a) as | (b) was | (c) is | (d) has |
| 11. | (a) priority | (b) prioritize | (c) priorities | (d) privets |
| 12. | (a) area | (b) aura | (c) aurora | (d) arena |

SPELLING

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

Paragraph 1

1. Japan's kitchnesr power plant
2. badly damaged and suffered wodnstelm
3. hit by a avissme earthquake
4. relocate the raazuhosd rods
5. high levels of traiadion
6. posed a cgaitsfinni challenge

Paragraph 2

7. unspent ulef rods
8. transferred to safer rageost pools
9. watch the eopgrssr at the site
10. Our goal is not to rush the soseprc
11. to carefully deoperc
12. Safety is our toriiypr

PUT THE TEXT BACK TOGETHER

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

Number these lines in the correct order.

- () Fukushima No. 1 nuclear power plant. Tepco is the company that operates the nuclear power plant. It was badly
- () of radiation observed in the area. Tepco said this posed a "significant challenge" for engineers.
- () Tomohiko Isogai, said: "I believe everything is going well so far. We will watch the progress at the site as we put safety
- () work." Another spokesman said: "Safety is our priority. We will carefully continue this
- () and unspent fuel rods stored at the power plant. The rods will be transferred to safer storage
- () devices that had been designed for the removal operation. Another factor that caused delays was high levels
- () in 2011. Tepco started the removal of the nuclear fuel on Monday, five years behind schedule. The work to
- () pools at the plant. Tepco said the work would be completed by the end of March 2021. A company spokesman,
- () first. Our goal is not to rush the process but to carefully proceed with the decommissioning
- () work." Prime Minister Shinzo Abe said Japan would do its best to rebuild the area.
- (**1**) The Tokyo Electric Power Company (Tepco) has started removing fuel rods from Japan's stricken
- () remove and relocate the hazardous rods was delayed because of a whole series of malfunctions of the
- () damaged and suffered meltdowns following being hit by a massive earthquake and tsunami
- () Tepco said it is removing seven unspent nuclear fuel rods from the reactor's pool. There are a total of 1,573 spent

PUT THE WORDS IN THE RIGHT ORDER

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

1. The the nuclear power that company operates plant .
2. the Tepco started fuel . removal the of nuclear
3. malfunctions of the whole devices . A of series
4. observed High in of levels the radiation area .
5. engineers . challenge This for a posed significant
6. nuclear removing It seven rods . fuel is unspent
7. rods fuel the power plant . stored at Unspent
8. believe so everything going is far . I well
9. goal process . the is not Our rush to
10. rebuild . its would Japan do best to

CIRCLE THE CORRECT WORD (20 PAIRS)

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

The Tokyo Electric Power Company (Tepco) has started *removal / removing* fuel rods from Japan's *stricken / struck* Fukushima No. 1 nuclear power plant. Tepco is the company that *operates / operate* the nuclear power plant. It was badly damaged and *suffered / suffering* meltdowns following being hit by a *massive / massively* earthquake and tsunami in 2011. Tepco started the removal of the nuclear fuel on Monday, five years *back / behind* schedule. The work to remove and relocate the hazardous rods *were / was* delayed because of a *whole / hole* series of malfunctions of the devices that had been designed for the removal operation. Another factor that caused delays was *high / height* levels of radiation observed in the area. Tepco said this *posted / posed* a "significant challenge" for engineers.

Tepco said it is removing seven *unspent / spend* nuclear fuel rods from the reactor's pool. There are a *totally / total* of 1,573 spent and unspent fuel rods *storage / stored* at the power plant. The rods will be transferred to safer storage *pools / pool* at the plant. Tepco said the work would be *competed / completed* by the end of March 2021. A company spokesman, Tomohiko Isogai, said: "I believe everything is going well so *for / far*. We will watch the progress at the site as we put *safety / safe* first. Our goal is not to rush the *process / proceeds* but to carefully proceed with the decommissioning work." Another spokesman said: "*Safety / Safe* is our priority. We will carefully continue this work." Prime Minister Shinzo Abe said Japan would do its best to rebuild the *area / arena*.

Talk about the connection between each pair of words in italics, and why the correct word is correct.

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

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

T h_ T_k y_ E l_c t r_c P_w_r C_m p_n y (T_p c_)
h_s s_t r_t_d r_m_v_n g f__ l r_d s f_r_m J_p_n 's
s_t r_c k_n F_k_s h_m_ N_. 1 n_c l__ r p_w_r p_l_n t
. T_p c_ s_ t h_ c_m p_n y t h_ t _p_r_t_s t h_ n_c
l__ r p_w_r p_l_n t. I t w_s b_d l_y d_m_g_d _n d
s_f f_r_d m_l t_d_w_n s f_l l_w_n g b__ n g h_t b_y _
m_s s_v_ __ r t h q__ k_ _n d t_s_n_m_ _n 2 0 1 1. T_p
c_ s_t r_t_d t h_ r_m_v_l _f t h_ n_c l__ r f__ l _n
M_n d_y, f_v_ y__ r_s b_h_n d s_c h_d_l_. T h_ w_r
k t_ r_m_v_ _n d r_l_c_t_ t h_ h_z_r d__ s r_d s
w_s d_l_y_d b_c__ s_ _f _ w_h_l_ s_r__ s _f m_l f_n
c_t__ n_s _f t h_ d_v_c_s t h_ t h_d b__ n d_s_g_n_d
f_r t h_ r_m_v_l _p_r_t__ n. A n_t h_r f_c_t_r t h_ t
c__ s_d d_l_y_s w_s h_g h l_v_l_s _f r_d__ t__ n _b
s_r v_d _n t h_ _r__. T_p c_ s__ d t h_s p_s_d _ "
s_g_n_f_c_n_t c_h_l_l_n g_" f_r _n g_n__ r_s.

T_p c_ s__ d _t _s r_m_v_n g s_v_n _n s_p_n t n_c
l__ r f__ l r_d s f_r_m t h_ r__ c_t_r 's p__ l. T
h_r_ _r_ _ t_t_l _f 1, 5 7 3 s_p_n t _n d _n s_p_n t
f__ l r_d s s_t r_d _t t h_ p_w_r p_l_n t. T h_ r_d
s w_l l b_ t_r_n s f_r_r_d t_ s_f_r s_t_r_g_ p__ l_s
t t h p_l_n t. T_p c_ s__ d t h_ w_r k w__ l d b_
c_m p_l_t_d b_y t h_ _n d _f M_r c_h 2 0 2 1. A
c_m p_n y s_p_k_s_m_n, T_m_h_k_ I_s_g__ , s__ d:
" I b_l__ v_ _v_r y t h_n g _s g__ n g w_l l s_ f_r.
W_ w_l l w_t c_h t h_ p_r_g_r_s_s _t t h_ s_t__ s w_
p_t s_f_t_y f_r_s_t. O_r g__ l _s n_t t_ r_s h t
h_ p_r_c_s_s b_t t_ c_r_f_l_l_y p_r_c__ d w_t h t h_
d_c_m_m_s_s__ n_n g w_r k. " A n_t h_r s_p_k_s_m_n
s__ d: " S_f_t_y _s __ r p_r__ r_t_y. W_ w_l l
c_r_f_l_l_y c_n_t_n__ t h_s w_r k. " P_r_m_ M_n_s_t_r
S_h_n_z_ A_b_ s__ d J_p_n w__ l d d__ t_s b_s_t t_
r_b__ l_d t h_ _r__.

PUNCTUATE THE TEXT AND ADD CAPITALS

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

the tokyo electric power company tepco has started removing fuel rods from japons stricken fukushima no 1 nuclear power plant tepco is the company that operates the nuclear power plant it was badly damaged and suffered meltdowns following being hit by a massive earthquake and tsunami in 2011 tepco started the removal of the nuclear fuel on monday five years behind schedule the work to remove and relocate the hazardous rods was delayed because of a whole series of malfunctions of the devices that had been designed for the removal operation another factor that caused delays was high levels of radiation observed in the area tepco said this posed a significant challenge for engineers

tepco said it is removing seven unspent nuclear fuel rods from the reactors pool there are a total of 1573 spent and unspent fuel rods stored at the power plant the rods will be transferred to safer storage pools at the plant tepco said the work would be completed by the end of march 2021 a company spokesman tomohiko isogai said i believe everything is going well so far we will watch the progress at the site as we put safety first our goal is not to rush the process but to carefully proceed with the decommissioning work another spokesman said safety is our priority we will carefully continue this work prime minister shinzo abe said japan would do its best to rebuild the area.

PUT A SLASH (/) WHERE THE SPACES ARE

From <https://breakingnewsenglish.com/1904/190417-nuclear-reactor.html>

TheTokyoElectricPowerCompany(Tepco)hasstartedremovingfuelrodsfromJapan'sstrickenFukushimaNo.1nuclearpowerplant.Tepcoisthecompanythatoperatesthenuclearpowerplant.Itwasbadlydamagedandsufferedmeltdownsfollowingbeinghitbyamassiveearthquakeandtsunamiin2011.TepcostartedtheremovalofthenuclearfuelonMonday, fiveyearsbehindschedule.Theworktoremoveandrelocatethehazardousrodswasdelayedbecauseofawholeseriesofmalfunctionsofthedevicesthathadbeendesignedfortheremovaloperation.Anotherfactorthatauseddelayswashighlevelsofradiationobservedinthearea.Tepcosaidthisposeda"significantchallenge"forengineers.Tepcosaiditisremovingsevenunspentnuclearfuelrodsfromthereactor'spool.Thereareatotalof1,573spentandunspentfuelrodsstoredatthepowerplant.Therodswillbetransferredtosafestoragepoolsattheplant.TepcosaidtheworkwouldbecompletedbytheendofMarch2021.Acompanyspokesman, TomohikoIsogai,said:"Ibelieveweverythingisgoingwellsofar.Wewillwatchtheprogressthesiteasweputsafetyfirst.Ourgoalisnottorushtheprocessbuttocarefullyproceedwiththedecommissioningwork."Another spokesmansaid:"Safetyisourpriority.Wewillcarefullycontinuethiswork."PrimeMinisterShinzoAbesaidJapanwoulddoitsbesttorebuildthearea.

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. FUKUSHIMA: Make a poster about Fukushima. Show your work to your classmates in the next lesson. Did you all have similar things?

4. NUCLEAR POWER: Write a magazine article about nuclear power. Include imaginary interviews with people who are for and against it.

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 nuclear power. Ask him/her three questions about it. Give him/her three of your opinions on it. Read your letter to your partner(s) in your next lesson. Your partner(s) will answer your questions.

ANSWERS

VOCABULARY (p.4)

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

TRUE / FALSE (p.5)

- a F b T c T d T e T f F g F h F

SYNONYM MATCH (p.5)

- | | |
|--------------|------------------|
| 1. stricken | a. troubled |
| 2. suffered | b. experienced |
| 3. massive | c. enormous |
| 4. hazardous | d. dangerous |
| 5. posed | e. raised |
| 6. spent | f. exhausted |
| 7. progress | g. development |
| 8. process | h. procedure |
| 9. priority | i. prime concern |
| 10. rebuild | j. reconstruct |

COMPREHENSION QUESTIONS (p.9)

- No. 1
- Meltdowns
- Five years
- They malfunctioned
- Radiation
- Seven
- 1,573
- By the end of March 2021
- Safety
- Rebuild the area

WORDS IN THE RIGHT ORDER (p.20)

- The company that operates the nuclear power plant.
- Tepco started the removal of the nuclear fuel.
- A whole series of malfunctions of the devices.
- High levels of radiation observed in the area.
- This posed a significant challenge for engineers.
- It is removing seven unspent nuclear fuel rods.
- Unspent fuel rods stored at the power plant.
- I believe everything is going well so far.
- Our goal is not to rush the process.
- Japan would do its best to rebuild.

MULTIPLE CHOICE - QUIZ (p.10)

1. c 2. a 3. d 4. b 5. c 6. d 7. b 8. d 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 ;-)