For Teachers: Please have the students read the sentences one at a time and correct their pronunciation of each sentence then have them repeat after you. Wait until after they read the sentence (use the number in place of the missing word) to have the students choose the correct answer to fill in the blank. When the students finish the article, move on to the further questions.

4[C] – ^{砂漠(さばく)} **Desert Power**

10.2(4C)A2E

地球温暖化(ちきゅうおんだんか) 悪化(あっか)して 政府(せいふ)

1. As the problem of global warming gets worse , governments around the 探(さが)している 量(りょう) 二酸化炭素(にさんかたんそ)

world are looking for ways to cut the amount of carbon dioxide 作(つく)り出(だ)されている being produced .

~した

~を提案(ていあん)する

2. Now, a group of 20 German companies have come up with a plan to use the 環境(ていきょう) する 電力(でんりょく)

Sahara Desert in North Africa to provide clean electricity to Europe.

According to Gerhard Knies of the Deserted Foundation, which is ~ 以内 (いない) で 運営(うんえい)している 計画(けいかく) 受(う)け取(と)る " Within six hours, deserts running the project, receive more 人類(じんるい) 使(つか)い果(は)たす energy from the sun than humankind can within a year. consume 創造 (そうぞう)する

4. "The companies hope to use this energy to create electricity in a way that will not harm the environment.

Further Questions&A* Ask student to answer the question on their own at first. If the student can't answer correctly, have him look at the last page and read the "example answer" for the question. Have the student try to memorize the answer, if it's too long or difficult, you should divide the sentence into 2 or 3 parts to make it easier to remember. Once they have memorized the answer, the teacher should ask the question one last time so that the student can practice answering. Also if you find any mistakes, please mark the page and let me know ASAP.

- 5. 1) Why have governments been looking for ways to cut the amount of carbon dioxide being produced? なぜ政府は二酸化炭素の排 出 を削減する方法を探しているのですか。
- 6. They are looking to cut it, because global warming is getting worse.
- 7. 2) How much energy do deserts receive from the sun?

ドイツの

- 9. They receive more energy than humankind can consume within a year.

| To. When people think of solar energy, they usually think of | solar energy, they usually think of | solar panels | solar

11. The Desertec plan is different. The foundation plans to build a line of solar power stations in the desert.

で使うことによって 変(か)える 2. Solar power stations work by using the strong desert sunlight to turn 素気(じょうき) water into steam .

蒸気(じょうき) その時には 回転(かいてん)させる タービン

13. This steam then turns turbines to create electricity. Solar power stations are not new, and four stations like the ones Desertec plans to build for the last two decades .

13. This steam then turns turbines to create electricity. Solar power stations are not new, and four stations like the ones Desertec plans to build have been producing electricity in the desert in California for the last two decades .

14. Desertec, however, plans to build many more solar power stations and send the electricity produced from the Sahara Desert to Europe through power lines.

| **Desertec**, however, plans to build many more solar power stations and send the electricity produced from the Sahara Desert to Europe through power lines.

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| **Desertec**, however, plans the electricity produced from the sahara Desert to Europe through power lines.

| **Desertec**, however, plans the electricity pl

Further Questions&A

- 16.3) How is the Desertec plan different from most solar energy plans?
- *** たいようこうはつでん けいかく *** けいかく そういてん なん 17. 多くの太 陽光 発電の計画 と Desertec の計画の相違点は何ですか。
- 18. They will build solar power stations instead of solar panels.
- 19.4) How long have power stations like the ones Desertec wants to use been used?
- 20. Desertec が使用したいと望んでいるような 発電所 はどのくらい使われていますか。
- 21. Solar energy stations have been used in California for the past two decades.
- 22. According to Desertec, solar power stations have many good points compared with solar panels. They are able to produce electricity in much より多(おお)い 分量(ぶんりょう) · 備蓄(びちく)する quantities, and they are also able to the sun's heat, store ~するのを可能(かのう)にする ~と同(おな)じように electricity to be produced at night as well as allowing その上(うえ) より安 (やす) N ~と比例(ひれい)して 23. Moreover, the power stations are much cheaper to build relative to the amount of electricity they produce. Deserted says that its project could 電気(でんき) ~までに 供給(きょうきゅう)する 15 percent of Europe's electricity by provide

Further Questions&A

電気(でんき)の 需要(じゅよう)

- 24.5) What percentage of Europe's electrical needs can the project provide?
- 25. ヨーロッパの何パーセントの電気の需要をこの計画は 供給 できますか。
- 26. It could provide 15 percent of Europe's electricity by 2050.
- ではない 支(ささ)える 計画(けいかく)
 27. Not everybody support the new plan . Some say that it would be better to 集中(しゅうちゅう)する 住宅(じゅうたく) . 一

concentrate on producing solar panels for houses in Europe.

28.Others say that the power stations will need too much water. Desertec, however, says that water would be brought from the ocean and that electricity would be 塩分(えんぶん)

used to remove the salt from this water.

地元(じもと)の 農家(のうか)

Further Questions&A

- 30.6) Why do some people not support Desertec's plans? (Pick up the sentence from the paragraph.)
- なぜ何人かの人々はDesertecの計画を支持していないのですか。
- 32. Some say that it would be better to concentrate on producing solar panels, others say the power stations will need too much water.

- 33.7) How could people who live in the countries where the stations are built profit from the plan? どのようにして発電所 の地域に住む人々が計画から利益を得られますか。
- 34. Desertec would remove the salt from water and give some to the local farmers.

*Choose the correct answer from these choices.

- 35.(41) The Desertec Foundation aims to Desertec基金は…にめざしている。
- name (ಡುಗ್) ಕಳ encourage a group of 20 German companies to clean up the Sahara Desert.
- 利用(りょう) する 二酸化炭素(にさんかたんそ) みつかった make use of carbon dioxide found in North Africa to produce clean energy.
- が漢(さばく) 与(あた)える ~ なしで 損害(そんがい)を与える 環境(かんきょう) 38.**3** use the desert sun to provide energy without damaging the environment. 減(へ)らす 全体(ぜんたい)の 総額(そうがく)
- 39.4 find a way to lessen the total amount of electricity that people 消費(しょうひ)する 毎年(まいとし) consume each year.
- 40.(42) How will Desertec's solar power stations create electricity?
- 41.Desertec の太陽熱発電所はどのように電気を作り出しますか。
- By using solar panels to make electricity from sunlight.
- 43.2 By heating water to make steam that will turn turbines.
- By sending hot water from the Sahara Desert to Europe.

 (ชา) ชาวหระ とแよって
- 45.4 By connecting Africa's power system with the one in California.

違(ちが)い

- 46.(43) What is one difference between solar panels and solar power stations?
- 47. 太陽電池板と太陽熱発電所の一つの違いは何ですか。
 - 熱(あつ)くなる 大(おお)きい 分量(ぶんりょう)
- 48.1 Solar panels can heat larger quantities of water.
- 49.2 Solar panels are able to produce much more energy.
- 50.3 Solar power stations are more common in Europe.
- 続(つづ)ける 51.**4** Solar power stations continue to work after dark.
- •
- 52. (44) According to Desertec Desertec によると...
- 53.1 the cost of solar panels is too high for many people in Europe.
- 地方(ちほう)の 作物(さくもつ) 作物(さくもつ)
- 54.2 the project will help local people by providing water for crops .

 w要(ひつよう)とする

 正確(せいかく)に
- the power stations will require large amounts of salt to work properly.
- 56.4 the countries where the power stations are built will get free electricity.
- 次に述(の)べる事柄(ことがら)
- 57.(45) Which of the following statements about Desertec's plan is true?
- 58. Desertec の計画について次に述べるどの事柄は貨実ですか。
 - ~に似(に)ている ~で運営(うんえい)しているもの
- 59.1 The power station will be <u>similar to ones operating</u> in California. を熱(ねっ) するため
- 60.2 Electricity from the power stations will be used <u>to heat</u> water at night.
- 61.3 The power stations will provide most of Europe's electricity by 2050.

62.4 Some people say that the power stations should be built in Europe.

Review Questions

- 63.1) Why have governments been looking for ways to cut the amount of carbon dioxide being produced?
- 64. They are looking to cut it, because global warming is getting worse.
- 65.2) How much energy do deserts receive from the sun?
- 66. They receive more energy than humankind can consume within a year.
- 67.3) How is the Desertec plan different from most solar energy plans?
- 68. They will build solar power stations instead of solar panels.
- 69.4) How long have power stations like the ones Desertec wants to use 使(つか) われてきた been used?
- 70. Solar energy stations have been used in California for the past two decades.
- 71.5) What percentage of Europe's electrical needs can the project provide?
- 12. It could provide 15 percent of Europe's electricity by 2050.
- 73.6) Why do some people not support Desertec's plans?
- 74. Some say that it would be better to concentrate on producing solar panels, others say the power stations will need too much water.
- 75.7) How could people who live in the countries where the stations are built profit from the plan?
- 76. Desertec would remove the salt from water and give some to the local farmers.

解答: (41)3 (42) 2 (43) 4 (44) 2 (45) 1

136	名)実験	experiment		イクス ペ ア _ リメン t
137	名)服	cloths		ク <mark>ロ</mark> ウズ -
138	副)それにもかか わらず	nevertheless		ネ ヴァー _ ザ <mark>レ</mark> ス
139	* を行う	conduct		カ <mark>ン</mark> だク _ トゥ
140	^{くりかえす} 動)~を繰り返す	repeat		リピートゥ
141	^{てきおう} 動適応する、~ を適応させる	adapt		ア <mark>ダ</mark> プトゥ -
142	名) 同 僚	colleague	田禁止	かリーグ
143	名)ごみ	garbage		ガ ービッ _ ヂ
144	^{かんぜん} 副)完全に	completely	一大生物	カンプ <mark>リ</mark> _ ートゥリ ィ
145	動)~を発明す でっちあげる る、でっち上げる	invent	- O C - D - D - D - D - D - D - D - D - D -	イン <mark>ヴェ</mark> _ ントゥ
146	じつ 副)実のところ、 じっさい 実際	indeed		イン ディ _ ードゥ
147	名)目的地	destination		デスティ - ネイシャン
148	形快適な	comfortable		カ ン フ ァタ _ ブル
149	えいきょう 動) ~ に影響を ぁたえる 与える	influence		インフル エンス
150	動)~を修理する 名)修理	repair		リペアー