No.5

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] – Desert Power (砂漠（さばく）) 10.2(4C)A2E

1. As the problem of global warming (地球温暖化（ちきゅうおんだんか）) gets worse (悪化（あっか）して), governments (政府（せいふ）) around the world are looking for (探（さが）している) ways to cut the amount (量（りょう）) of carbon dioxide (二酸化炭素（にさんかたんそ）) being produced (作（つく）り出（だ）されている).
2. Now, a group of 20 German (ドイツの) companies have (～した) come up with (～を提案（ていあん）する) a plan to use the Sahara Desert in North Africa to provide (提供（ていきょう）する) clean electricity (電力（でんりょく）) to Europe.
3. According to (～によれば) Gerhard Knies of the Desertec Foundation (創設（そうせつ）), which is running (運営（うんえい）している) the project (計画（けいかく）), " Within (～以内（いない）で) six hours, deserts receive (受（う）け取（と）る) more energy from the sun than humankind (人類（じんるい）) can consume (使（つか）い果（は）たす) within a year.
4. " The companies hope to use this energy to create (創造（そうぞう）する) electricity in a way that

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6. *They are looking to cut it, because global warming is getting worse.*
7. 2) How much energy do deserts receive from the sun?
8. 砂漠(さばく)はどのくらいのエネルギー資源(しげん)を太陽(たいよう)から得(え)ていますか。
9. *They receive more energy than humankind can consume within a year.*

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10. When people think of solar (太陽熱（たいようねつ）) energy, they usually think of solar panels (太陽電池板（たいようでんちばん）), which convert (転換（てんかん）する) sunlight directly (直接（ちょくせつ）に) into electricity.
11. The Desertec plan is different. The foundation (基金（ききん）) plans (計画（けいかく）する) to build a line (列（れつ）) of solar power stations (発電所（はつでんしょ）) in the desert.
12. Solar power stations work by using (～を使うことによって) the strong desert sunlight to turn (変（か）える) water into steam (蒸気（じょうき）).
13. This steam (蒸気（じょうき）) then (その時には) turns (回転（かいてん）させる) turbines (タービン) to create electricity. Solar power stations are not new, and four stations like the ones Desertec plans to build have been producing (ずっと作（つく）り出（だ）している) electricity in the desert in California for the last two decades (10年間（ねんかん）).

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.

15. power lines=機械を動かす力　　turbines=流水、蒸気、ガスの力で回転する原動機

Further Questions&A

16. 3) How is the Desertec plan different from most solar energy plans?

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 larger quantities, and they are also able to store the sun's heat , allowing electricity to be produced at night as well as during the day.

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27. Not everybody support the new plan . Some say that it would be better to 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 used to remove the salt from this water.

29. Some of this water could then be used by local farmers for growing crops . In this way, the people in the countries where the stations are built would also profit from the plan.

Further Questions&A

30. 6) Why do some people not support Desertec's plans? (Pick up the sentence from the paragraph.)

31. 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。

36. 1 encourage a group of 20 German companies to clean up the Sahara Desert.

37. 2 make use of carbon dioxide found in North Africa to produce clean energy.

38. 3 use the desert sun to provide energy without damaging the environment.

39. 4 find a way to lessen the total amount of electricity that people 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。

42. 1 By using solar panels to make electricity from sunlight.

43. 2 By heating water to make steam that will turn turbines

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50. 3 Solar power stations are more common in Europe.

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.

54. 2 the project will help local people by providing water for crops .

55. 3 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.

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真実ですか。

59. 1 The power station will be similar to ones operating in California.

60. 2 Electricity from the power stations will be used to heat 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* 〜の代（か）わりに *instead of solar panels.*

69.4) How long have power stations 〜のような 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* 過去（かこ）〜年間（ねんかん） *for the past two decades.*

71.5) What percentage of Europe's electrical needs can the project provide?

72. *It could provide 15 percent of Europe's electricity by 2050.*

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61	(接)~という事を考慮すると(前)~を考慮すると	considering						カンシダリング
62	動)集中する	concentrate						カンセントゥレイト
63	名)申し込み、出願書	application						アプリケーシャン
64	動)(~に)賛成する	agree						アグリー
65	動)~を避ける	avoid						アボイドゥ

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72	動)~に影響する	affect						アフォート
73	副)極めて	extremely						イクストゥリームリィ
74	動)~を減らす	reduce						リデュース
75	名)地域社会、コミュニティー	community						カミュニティー