Unit 3

Energy

Reading 45 Wind Energy (p.137)

1. Wind energy is made by using the wind to turn blades attached to a turbine.
2. Wind turbines can be erected on land or offshore.
3. Denmark gets about 40% of its electricity from wind farms.
4. The world’s biggest wind farm is in India.
5. It can produce 1,600 megawatts.
6. A much bigger one is under development in Gansu, China (20 gigawatts).
7. Wind energy is clean, safe and renewable; and the wind itself is free.
8. Wind farms can be built on ordinary farmland (providing farmers with extra income), but are only cost-effective if there’s plenty of wind.
9. Local residents complain about the noise made by wind turbines; and some conservationists oppose wind turbines because they spoil the view, and sometimes kill migrating birds.
10. However, these impacts are a small price to pay for technology that can help us stop climate change.

* Questions
  + What is turbine? How does it generate electricity?
  + What does “It” in S5 refer to?
  + What does “one” in S6 refer to?
  + Why farmers can get extra income after they build a wind farm in their farmland? Does this mean that they can continue farming in their land after they build wind farm?
  + How big is the noise from wind turbines?
* Discussion topic
  + この読み物のメインアイディア（主題）が書かれている文はS１～S２です。S3～S1０はメインアイディアをどのようにサポート・説明していますか？S3～S1０がいくつの部分で構成されているのかも合わせて答えなさい