**Electric Power Systems operate (summary)**

Electric power systems are used to convert other types of energy into electrical energy and transfer energy to the point of consumption.

Electricity is a very cheap way to transfer energy as it can be generated from renewable sources.

Using AC electricity, you can convert between voltage levels as needed. This allows the power lines from the generator to operate at high voltage with low current, and then with local power supplies at lower voltage and higher current.

Most of the energy is produced using steam, obtained from coal, oil, gas or nuclear energy sources. The power source heats the water to high pressure steam that drives the turbine of the generator.

The national power grid is a high steel tower carrying several cables, with a tower every 250-500 m in straight lines.

The LAN is usually on wooden poles with few cables for every 100 meters.

The complete delivery system includes overload or short circuit protection circuits and form factor correction.

**Exercise 4**

1. We will attend that conference in St. Louis next month.

2. He goes in for sports once a week.

3. He was at the meeting yesterday.

4. I will not wait for you next time.

5. They did not require our help last Tuesday.

6. You know the name of this girl?

7. There were thousands of people outside during the last festival.

8. The scientists say that the world will grow cold in 200 years.

9. She wants to graduate from the University and to become a well-paid lawyer.

10. They did not realize their mistake even when the accident happened.

11. My friend always passes his examinations well.

12. Your parents *be* proud of you when you show good results?

13. There will be an important meeting here next Thursday evening.

14. When they were young they introduced different methods of teaching foreign languages.

15. Why you come to see us last weekends?

**Exercise 7**

1. was getting

2. watched

3. was installed

4. will complete

5. was working

6. is organized

7. is saying

8. were having lunch

9. is done

10. were discussed

**Exercise 8**

1. determined
2. have been produced
3. will meet tomorrow
4. will carry out
5. have never visited
6. has already left
7. had been tell
8. looked
9. had never read
10. visited