**Задание для группы Э41 для урока ангийского языка 21.10.2020**

**Unit: Electric Power Consumers and Power Systems**

Прорабатываете все задания, 1,2,4 - письменно (отрабатываем орфографию и запоминаем слова), фотографируете написанное и присылаете преподавателю на проверку: вконтакте или на e-mail: [tatjana.butorina2011@yandex.ru](mailto:tatjana.butorina2011@yandex.ru)

**Task1 Put down the Russian equivalents of these word combinations.**

load graph

lighting load

power load

power utilizing devices

parallel operating plants

enterprises utilizing power

**Task2 Complete the sentences translating the words in brackets:**

1. Water-turbine (заводы) are called hydroturbines.

2. Load graph (определяет) the operating load (условия).

3. Economical (потребление) of electric power (достигается) by interconnected operation of power plants.

**Task3** **Read and translate the text**

**Electric Power Consumers and Power Systems**

An electric power consumer is an enterprise utilizing electric power. Its operating characteristics vary during the hours of day, days and nights, days of week and seasons.

All electric power consumers are divided into groups with common load characteristics. To the first group belong municipal consumers with a predominant lighting load: dwelling houses, hospitals, theatres, street lighting systems, mines, etc.

To the second group belong industrial consumers with a predominant power load (electric motors): industrial plants, mines, etc.

To the third group belongs transport, for example, electrified railways.

The fourth consists of agricultural consumers, for example, electrotractors.

The operating load conditions of each group are determined by the load graph. The load graph shows the consumption of power during different periods of day, month, and year. On the load graph the time of the maximum loads and minimum loads is given.

Large industrial areas with cities are supplied from electric networks fed by electric power plants. These plants are interconnected for operation in parallel and located in different parts of the given area. They may include some large thermal and hydroelectric power plants.

The sum total of the electric power plants, the networks that interconnect them and the power utilizing devices of the consumers, is called a power system. All the components of a power system are interrelated by the common processes of protection, distribution, and consumption of both electric and heat power.

In a power system, all the parallel operating plants carry the total load of all the consumers supplied by the given system.

The building up of a power system is of great importance for the national economy. An economical utilization of the power plant installations and of the sources of power is achieved by interconnected operation of a series of power plants in a common power distribution system.

**Task4 Answer these questions: Отвечаете полными предложениями и пишите еще их перевод**

1. What enterprises are called electric power consumers?

2. When do their operating characteristics vary?

3. What consumers belong to the four different groups?Оформите в виде схемы, перевод тогда не пишите.

4. What conditions does the load graph determine?

5. What type of system is called a power system?

6. What processes interconnect the components of a power system?

7. In what way is an economical utilization of power installations achieved?

Your Results for Resume

|  |  |  |  |
| --- | --- | --- | --- |
| Name | 3/09 | 21/10 |  |
| Авхадиев Дамир | 5 |  |  |
| Дубровец Никита | 5 |  |  |
| Земцов Иван | 5 |  |  |
| Кожевников Данил | 4 |  |  |
| Коренной Илиан | 4 |  |  |
| Крестьянинов Ал. | 4 |  |  |
| Лебедев Руслан | 4 |  |  |
| Малинин Михаил |  |  |  |
| Михеев Антон | 3 |  |  |
| Палкин Кирилл | 5 |  |  |
| Русалеев Артём | 4 |  |  |
| Сидоренко Родион |  |  |  |
| Попов Константин |  |  |  |
| Сырчин Евгений | 3 |  |  |
| Якупов Динар | 5 |  |  |