Power lines



Task 1. Work at pronunciation

Enough	Достаточно
Power plant	Электростанция
To encounter	Сталкиваться
Step-up transformer	Повышающий трансформатор
Step-down transformer	Понижающий трансформатор
To distribute	Раздавать, распространять
Frequency	Частота
To suspend	Приостанавливать, откладывать

Task 2. Pronounce the words.

Enough	Достаточно
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Task 3. Read the text. Fill in the gaps. Use the hints below.

Power lines are wires that conduct _____to another place. In electrical engineering is used aluminium (it has low cost). Many of power lines

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have transformers. The voltage of the power at the end is usually 100V (Japan), 120V (North and Central America, parts of South America and Africa, and Saudi Arabia), or 220-240V (most of the rest of the world), but is much higher while going through the electric power transmission lines. _____at the end is then safe enough to be used when stepped-down by a transformer.

The power is made at a power plant. Then the power is sent through the power lines, sometimes it encounters spots that it cannot go through. Then it will need to raise its voltage with a step-up transformer. The act is called "stepping up". Where the electric power distribution reaches buildings, this voltage is too dangerous to be used, so it goes through a step-down transformer. This is called "stepping down". Then the electricity can be distributed to_____. The line efficiency depends on the load. The greater the load the lower is the line efficiency.

There are different types of power lines: phone lines, radio frequency lines, DC lines, single-phase AC lines, three-phase AC power lines.

An overhead power_____ is a structure used in electric power transmission and distribution to transmit electrical energy across large distances. It consists of one or more uninsulated electrical cables (commonly multiples of three for three-phase power) suspended by towers or poles.

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buildings
line
The power
Electricity

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