**Контрольные задания для студентов электроэнергетического факультета (специальность - Электроснабжение)**

**ВАРИАНТ 1**

**Переведите текст письменно на русский язык**

The capital cost of electric power stations is so high, and electric demand is so variable, that it is often cheaper to import some portion of the needed power than to generate it locally. Because loads are often correlated (hot weather might cause many people to use air conditioners), electricity often comes from distant sources. Because of the economics of load balancing, [wide area transmission grids](http://en.wikipedia.org/wiki/Wide_area_synchronous_grid) now span across countries and even large portions of continents.

The unvarying (or slowly varying over many hours) portion of the electric demand is known as the [*base load*](http://en.wikipedia.org/wiki/Base_load_power_plant) and is generally served best by large facilities (which are efficient due to economies of scale) with low variable costs for fuel and operations. Such facilities might be nuclear or coal-fired power stations, or hydroelectric, while other renewable energy sources such as [concentrated solar thermal](http://en.wikipedia.org/wiki/Solar_thermal_energy) and [geothermal power](http://en.wikipedia.org/wiki/Geothermal_power) have the potential to provide base load power. Renewable energy sources such as solar photovoltaics, wind, wave, are, to, not considered "base load" but can still add power to the grid. The remaining power demand, if any, is supplied by [peaking power plants](http://en.wikipedia.org/wiki/Peaking_power_plant), which are typically smaller, and higher cost sources, such as combined cycle or combustion turbine plants fueled by natural gas.

**I. Подчеркните в каждом предложении глагол – сказуемое и определите видо-временную форму и залог. Переведите предложения на русский язык. В разделе (б) обратите внимание на перевод пассивных конструкций.**

а). 1. Many countries have liberalized the electricity market.

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2. In 1957 Siemens demonstrated the first solid-state rectifier.

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б). 1. In the 19-th century, two-phase transmission was used.

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 2. Its use has been extended.

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**II. Подчеркните Participle I и Participle II и установите функцию каждого из них, т.е. укажите, является ли оно определением, обстоятельством или частью глагола-сказуемого. Переведите предложения на русский язык.**

 1. The energy is produced depending on the size of the unit.

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 2. The first commercial line using Mercury arc valve was built.

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 3. New power systems chose alternating current.

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 4. A sophisticated system of control must be used.

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**III. Подчеркните в каждом предложении модальный глагол или его эквивалент. Переведите предложения на русский язык.**

 1. Costs can be prohibitive for transmission lines.

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 2. It has to separate the electricity transmission business.

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 3. Energy must be transmitted within a grid with three-phase AC.

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 4. Equipment may be economically justified.

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**IV. Переведите следующие предложения на русский язык, обращая внимание на степени сравнения прилагательных.**

 1. Thicker wires will lead to a relatively small increase in capacity.

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 2. This system requires more expensive equipment.

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 3. The hotter weather, the greater number of people uses air conditioners.

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 4. Long-distance transmission of electricity is cheaper.

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**V. Образуйте множественное число следующих существительных:**

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**ВАРИАНТ 2**

**Переведите текст письменно на русский язык**

**Losses**

Transmission and distribution losses in the USA were estimated at 6.6% in 1997 and 6.5% in 2007. In general, losses are estimated from the discrepancy between energy produced (as reported by power plants) and energy sold to end customers; the difference between what is produced and what is consumed constitute transmission and distribution losses.

In an alternating current circuit, the [inductance](http://en.wikipedia.org/wiki/Inductance) and [capacitance](http://en.wikipedia.org/wiki/Capacitance) of the phase conductors can be significant. The currents that flow in these components of the circuit [impedance](http://en.wikipedia.org/wiki/Electrical_impedance) constitute [reactive power](http://en.wikipedia.org/wiki/Reactive_power), which transmits no energy to the load. Reactive current causes extra losses in the transmission circuit. The ratio of real power (transmitted to the load) to apparent power is the [power factor](http://en.wikipedia.org/wiki/Power_factor). As reactive current increases, the reactive power increases and the power factor decreases. For systems with low power factors, losses are higher than for systems with high power factors. Utilities add capacitor banks and other components (such as [phase-shifting transformers](http://en.wikipedia.org/wiki/Phase-shifting_transformer); physical [transposition of the phase conductors](http://en.wikipedia.org/wiki/Transposing_scheme); and [flexible AC transmission systems](http://en.wikipedia.org/wiki/Flexible_AC_transmission_system)) throughout the system to control reactive power flow for reduction of losses and stabilization of system voltage.

**I. Подчеркните в каждом предложении глагол – сказуемое и определите видо-временную форму и залог. Переведите предложения на русский язык. В разделе (б) обратите внимание на перевод пассивных конструкций.**

1. a). 1. Different classes of loads required different voltages.

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 2. Engineers have designed transmission networks.

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 б). 1. Long distance transmission is done with overhead lines.

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 2. A new substation is being built now.

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**II. Подчеркните Participle I и Participle II и установите функцию каждого из них, т.е. укажите, является ли оно определением, обстоятельством или частью глагола-сказуемого. Переведите предложения на русский язык.**

 1. Measures to reduce corona losses include conductors having large diameter.

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 2. For a given amount of power, a higher voltage reduces the current.

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 3. This angle varies depending on system loading.

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 4. These cables are known as optical ground wire.

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 **III. Подчеркните в каждом предложении модальный глагол или его эквивалент. Переведите предложения на русский язык.**

 1. A transmission substation may include voltage regulating transformers.

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 2. These networks can use such components as power lines, cables.

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 3. Conductors must sag too close to the ground.

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 4. Transmission lines should be used to carry data.

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**IV. Переведите следующие предложения на русский язык, обращая внимание на степени сравнения прилагательных.**

 1. Transformers reduce the voltage to a lower level for distribution to users.

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 2. It is more economical to transmit direct current.

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 3. Voltages less than 33 KV are used for distribution.

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 4. The highest voltage was 150KV.

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**V. Образуйте множественное число следующих существительных:**

 loss \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ toy \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 child \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ wire \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 economy \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fish \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ВАРИАНТ 3**

**Переведите текст письменно на русский язык**

**Bulk power transmission**

Long-distance transmission of electricity (thousands of kilometers) is cheap and efficient. Thus distant suppliers can be cheaper than local sources (e.g., New York City buys a lot of electricity from Canada). Multiple local sources (even if more expensive and infrequently used) can make the transmission grid more fault tolerant to weather and other disasters that can disconnect distant suppliers.

Long distance transmission allows remote renewable energy resources to be used to displace fossil fuel consumption. Hydro and wind sources can't be moved closer to populous cities, and solar costs are lowest in remote areas where local power needs are minimal. Connection costs alone can determine whether any particular renewable alternative is economically sensible. Costs can be prohibitive for transmission lines, but various proposals for massive infrastructure investment in high capacity, very long distance [super grid](http://en.wikipedia.org/wiki/Super_grid) transmission networks could be recovered with modest usage fees.

**I. Подчеркните в каждом предложении глагол – сказуемое и определите видо-временную форму и залог. Переведите предложения на русский язык. В разделе (б) обратите внимание на перевод пассивных конструкций.**

а). 1. Some studies have found statistical correlations between diseases and working near power lines.

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 2.Other regions will compete for local energy.

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 б). 1. The variation of voltage is used to increase generation.

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 2. This system will be used in a year.

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**II. Подчеркните Participle I и Participle II и установите функцию каждого из них, т.е. укажите, является ли оно определением, обстоятельством или частью глагола-сказуемого. Переведите предложения на русский язык.**

 1. The system has been designed.

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 2. Leased circuits from common carriers are not preferred.

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 3. This is equipment used at lower voltages.

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 4. Using this knowledge he built an improved power system.

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**III. Подчеркните в каждом предложении модальный глагол и его эквивалент. Переведите предложения на русский язык.**

 1. Loads can be connected to the transmission system.

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 2. Loads must be controlled.

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 3. The load control signals have to be sent on separate lines.

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 4. In remote areas a common carrier may not be available.

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**IV. Переведите следующие предложения на русский язык, обращая внимание на степени сравнения прилагательных.**

 1. Aluminium is lower in weight.

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 2. The most serious problem has to be solved.

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 3. He made the worst mistake.

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 4. The greatest discovery came from M. Faraday.

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**V. Образуйте множественное число следующих существительных:**

 country\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ challenge \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 face \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 tooth \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ deer \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ВАРИАНТ 4**

**Переведите текст письменно на русский язык**

**High-voltage direct current**

High voltage direct current (HVDC) is used to transmit large amounts of power over long distances or for interconnections between asynchronous grids. When electrical energy is required to be transmitted over very long distances, it is more economical to transmit using [direct current](http://en.wikipedia.org/wiki/Direct_current) instead of [alternating current](http://en.wikipedia.org/wiki/Alternating_current). For a long transmission line, the lower losses and reduced construction cost of a DC line can offset the additional cost of converter stations at each end. Also, at high AC voltages, significant (although economically acceptable) amounts of energy are lost due to [corona discharge](http://en.wikipedia.org/wiki/Corona_discharge), the [capacitance](http://en.wikipedia.org/wiki/Capacitance) between phases or, in the case of buried cables, between phases and the [soil](http://en.wikipedia.org/wiki/Soil) or [water](http://en.wikipedia.org/wiki/Water) in which the cable is buried.

[HVDC](http://en.wikipedia.org/wiki/HVDC) is also used for long [submarine cables](http://en.wikipedia.org/wiki/Submarine_power_cable) because over about 30 km length AC can no longer be applied. In that case special [high voltage cables](http://en.wikipedia.org/wiki/High_voltage_cable) for DC are built. Many submarine cable connections - up to 600 km length - are in use nowadays.

**I. Подчеркните в каждом предложении глагол – сказуемое и определите видо-временную форму и залог. Переведите предложения на русский язык. В разделе (б) обратите внимание на перевод пассивных конструкций.**

а). 1. Electricity become a subject of scientific interest in the 17-th century.

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 2. He is writing about the history of electricity.

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 б). 1. These cables are known as optical ground wire.

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 2. Multiple sources and loads are being connected to the transmission systems.

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**II. Подчеркните Participle I и Participle II и установите функцию каждого из них, т.е. укажите, является ли оно определением, обстоятельством или частью глагола-сказуемого. Переведите предложения на русский язык.**

 1. It is a principle known as electromagnetic induction.

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 2. The distance was limited.

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 3. Thomas Edison and his company developed the first steam-powered electric station.

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 4. The energy is transformed to low voltage varying by country.

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**III. Подчеркните в каждом предложении модальный глагол или его эквивалент. Переведите предложения на русский язык.**

 1. You can explain how generators work.

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 2. Conductors may sag too close to the ground.

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 3. Loads must be controlled.

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 4. Wireless power transmission should be studied.

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**IV. Переведите следующие предложения на русский язык, обращая внимание на степени сравнения прилагательных.**

 1. Generation is growing 4 times faster than transmission.

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 2. The longest power line is 1,700 kilometers.

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 3. These devices are more expensive.

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 4. Power can be transmitted with less loss at higher voltages.

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**V. Образуйте множественное число следующих существительных:**

 century\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ foot \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 bus \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ fish\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 rectifier \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ motor\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**ВАРИАНТ 5**

**Переведите текст письменно на русский язык**

**Limitations**

The amount of power that can be sent over a transmission line is limited. The origins of the limits vary depending on the length of the line. For a short line, the heating of conductors due to line losses sets a thermal limit. If too much current is drawn, conductors may sag too close to the ground, or conductors and equipment may be damaged by overheating. For intermediate-length lines on the order of 100 km (62 mi), the limit is set by the [voltage drop](http://en.wikipedia.org/wiki/Voltage_drop) in the line. For longer AC lines, [system stability](http://en.wikipedia.org/wiki/Utility_frequency#Stability) sets the limit to the power that can be transferred. Approximately, the power flowing over an AC line is proportional to the sine of the phase angle of the voltage at the receiving and transmitting ends. Since this angle varies depending on system loading and generation, it is undesirable for the angle to approach 90 degrees. Very approximately, the allowable product of line length and maximum load is proportional to the square of the system voltage. Series capacitors or phase-shifting transformers are used on long lines to improve stability. [High-voltage direct current](http://en.wikipedia.org/wiki/Electric_power_transmission#HVDC) lines are restricted only by thermal and voltage drop limits, since the phase angle is not material to their operation.

**I. Подчеркните в каждом предложении глагол – сказуемое и определите видо-временную форму и залог. Переведите предложения на русский язык. В разделе (б) обратите внимание на перевод пассивных конструкций.**

 а). 1. By 1890 companies had built thousands of power systems.

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 2. The transmission system does not have a large buffering capability.

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 б). 1. New station will be built.

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 2. The variation of voltage is used to increase generation.

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**II. Подчеркните Participle I и Participle II и установите функцию каждого из них, т.е. укажите, является ли оно определением, обстоятельством или частью глагола-сказуемого. Переведите предложения на русский язык.**

 1. New power systems chose alternating current as opposed to direct current for electrical transmission.

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 2. The power added by any system increases as the line voltage decreases.

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 3. There have been efforts to confront the problem.

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 4. Using this knowledge he built improved system.

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**III. Подчеркните в каждом предложении модальный глагол или его эквивалент. Переведите предложения на русский язык.**

 1. Optical fibers can be included in the stranded conductors.

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 2. Communication systems may use optical fibers.

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 3. To load balance the voltage and frequency must be used as a signaling mechanism.

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 4. Generation has to be kept matched to the load.

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**IV. Переведите следующие предложения на русский язык, обращая внимание на степени сравнения прилагательных.**

 1. This process is the most common in the industry today.

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 2. The greatest discoveries came form M. Faraday.

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 3. Computers allow to use better planning of power systems.

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 4. It is more economical to install turbines to produce higher voltages.

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**V. Образуйте множественное число следующих существительных:**

 network \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ field\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 process \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ machine \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 study \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ tooth \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_