

1. For what purpose reliable and efficient electricity storage systems are needed?
 2. What equipment could compensate power supply instability and rapid changes in the power systems?
 3. How helps energy storage systems to renewable generation sources (solar and wind power) systems users.
 4. What the main reasons of energy storage systems technologies development importance?
 5. What main energy storage systems technologies could be used?
 6. In what cases the energy storage systems could be connected to the electrical network?
 7. What do you know the most developed and implemented regenerative electrochemical energy storage systems?
 8. What main benefits of electrochemical energy storage systems?
 9. What are main benefits of a pumped storage systems?
 10. What are in the World and in the Europe Union Hydro pumped storage systems installation tendension
 11. What are main applications of hydro pumped storage system?
 12. Enter the main types of hydro pumped storage systems.
 13. What types of the hydro turbines could be used in hydro pump storage station which large head? *
 14. Please name the main konstruction elements of open type hydro pumped storage station.
 15. What are the main types of the hydro turbines are used in the hydro pumped storage systems
 16. Please name the main construction elements of Kaplan hydro turbine construction? *
 17. Does separate hydro turbines and pumps could be used in hydro pumped storage systems? Please comment your answer. *
 18. For what purpose reliable and efficient electricity storage systems are needed?
 - a. **For renewable energy resources optimization and integration**
 - b. For main supply of large energy systems (Opts.)
 - c. For additional supply of small energy systems
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