

# ENERGY STORAGE (1). TEST OF KNOWLEDGE

e-learning material



1. 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;

c) for additional supply of small energy systems.

2. What equipment could compensate power supply instability and rapid changes in the power systems?

- a) wind power stations;
- b) energy storage systems;***
- c) renewable energy systems.

3. How helps energy storage systems to renewable generation sources (solar and wind power) systems users.

a) Renewable generation sources (solar and wind power) systems users could supply electricity to the energy storage systems;

***b) Renewable generation sources (solar and wind power) systems users could get electricity from the energy storage systems, when the main sources are switched of;***

c) Renewable generation sources systems could compensate voltage variation to the energy storage systems, when the main sources are switched on.

4. What the main reasons of energy storage systems technologies development importance?

a) Air quality and economic ;

***b) Environmental, air quality, economic efficiency, competitiveness and service areas;***

c) Environmental and economic efficiency.

5. What do you know the most developed and implemented regenerative electrochemical energy storage systems?

- Li-Ion battery;
- *Vanadium redox battery (VRB)*;
- Lead acid accumulative battery;

## 6. What are the benefits of a pumped storage systems?

- a) Improved energy regulation and operation of the supply grid, reduced gaseous emissions and has little environmental impact during its operation;*
- b) Helps regulate frequency of large and small energy systems;
- c) Helps regulate voltage of large and small energy systems;

## 7. What are the main types of hydro pumped storage systems?

- a) Closed types;
- b) Open types;
- d) Closed and open types*



## REFERENCES

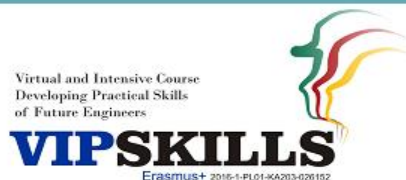
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