CHARGING FACILITIES OF THE SHORT-TERM ENERGY STORAGE

AES 7.3

After charging the short-term energy storage various consumers can be connected:

Experiment 1:

- Connect the solarcells of the brick in series
- Put the brick on the clinometer
- Put the solar cells into the direct sunbeams
- Connect the solarcells with the short-term enery storage (input "IN")



- The storage should be charged after approx. 10 minutes.

If there is no direct sun available, you can use a lamp instead.



Experiment 2 – Charging the short-term energy storage with a windgenerator or turbine:

Of course, the energy storage can be charged with these devices, but this would be very tedious and time consuming in a laboratory experiment.

When charging it by a wind generator, it is recommended to use a fan (e.g.a hair dryer) to drive the propeller.
Permanent powerful blowing would cause dizziness.

When charging by a turbine and an air pump, it normally takes several minutes until the memory is full.

Practical advice:
In Austria, several storage power plants are in operation. The water storage (reservoir on the mountain) gets charged at night by pumping up water from the valley to the sea. Indeed with energy which is, e.g. derived for example from power plants (and of course not used at night).

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