

CLOSED-LOOP PUMPED HYDRO ENERGY STORAGE



TO GENERATE ELECTRICITY

- Step 1:** Water is released from the upper reservoir, travelling downhill to the lower reservoir.
- Step 2:** The water spins the turbine and generator assembly to generate electricity.
- Step 3:** Power is added to the grid (when the energy demand is high).

TO RECHARGE THE SYSTEM

- Step 1:** Power is absorbed from the grid (when energy demand is low).
- Step 2:** The turbine is used to pump water uphill from the lower reservoir to the upper reservoir.
- Step 3:** Water refills the upper reservoir.

