The diagram illustrates the process of producing electricity using the hydroelectric dam. The reservoir which contain the water and the powerhouse where the electricity is generated are the most important parts of this structure.

First of all, the water stored in the reservoir is strained of the garbage and dispatched to the penstock. After this the liquid face the turbine of the generator located inside the powerhouse, rotate it and then ends up its route in the river. While the turbine is rotating, the electricity produces and travels long distance through the powerlines which connect the powerhouse and the electricity station. The feature of hydroelectric dam system is that it continues repeatedly meaning the huge amount of energy is generated every second.

Thus, usage of hydroelectric dam is the perfect way to convert vast amount of water kinetic energy into the electricity we use can use in our everyday life.