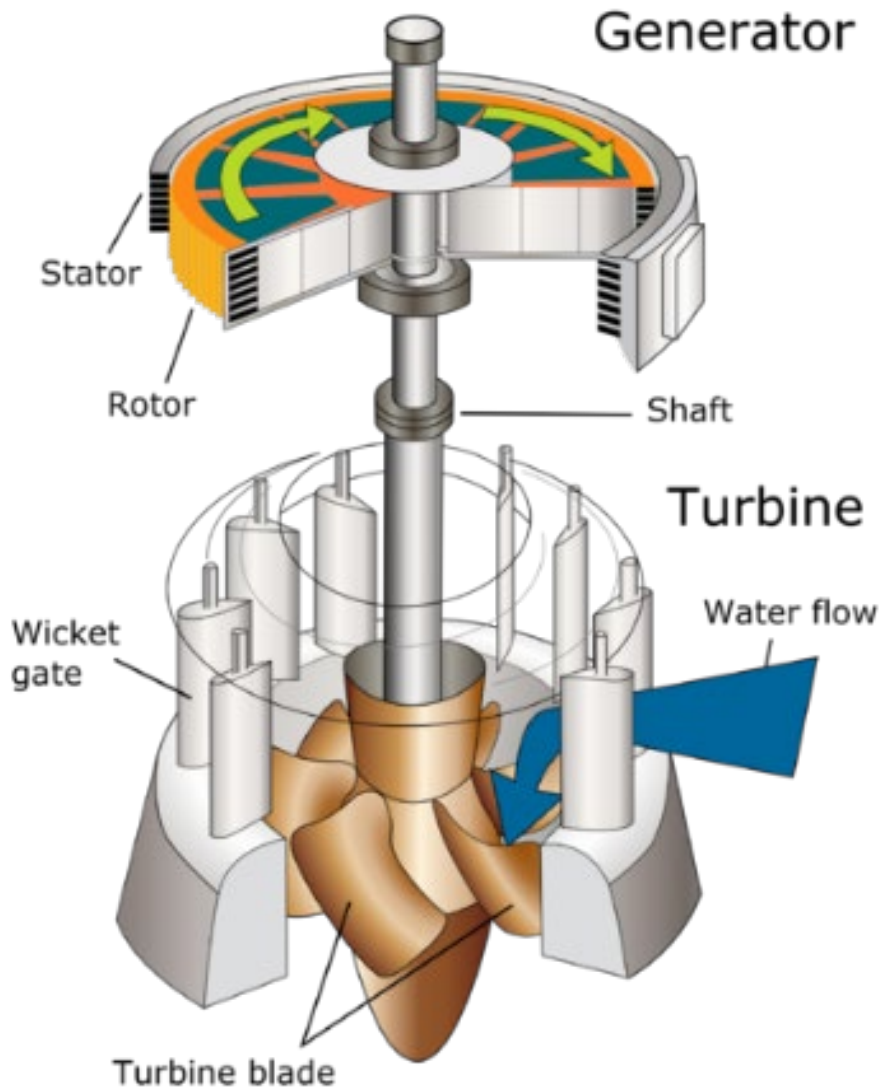


Part 1 Directions: Label the parts of the diagram below



Part 2 Directions: Describe the steps used to generate electricity.

- Water enters the turbine
- Passes through the wicket gates which can have the angled changed to regulate water flow to the blades of the runner
- The flowing water is the source of energy
- Blades turn, which causes the shaft to rotate. Shaft connects the turbine to the rotor
- Rotor is a series of electromagnets (poles). The stator is a series of copper coils.
- The rotating rotor and the magnetic field generated by the stator coils creates the required electric current

- Bonus Fact – discovered by Michael Faraday in 1831