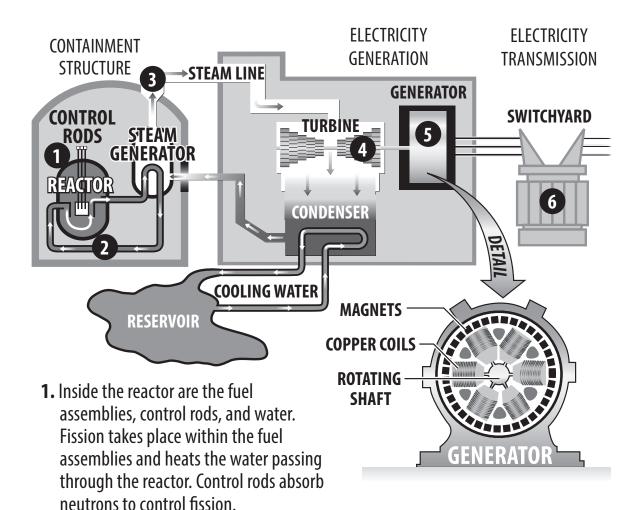


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Using Nuclear Energy to Generate Electricity in a Pressurized Water Reactor



- **2.** Water is piped through the reactor where it is heated. It then travels to the steam generator where the hot water in pipes heats a secondary system of water.
- **3.** The steam generator keeps the steam at a high pressure. The steam travels through a steam line to the turbine.
- **4.** The high pressure steam turns the turbine as it passes through, which spins a shaft. The steam then travels through the condenser where it is condensed by cooling water and is pumped back into the steam generator to repeat its cycle.
- **5.** The turbine spins a shaft, which travels into the generator. Inside the generator, the shaft spins coils of copper wire inside a ring of magnets. This generates electricity.
- **6.** Electricity is sent to a switchyard, where a transformer increases the voltage, allowing it to travel through the electric grid.