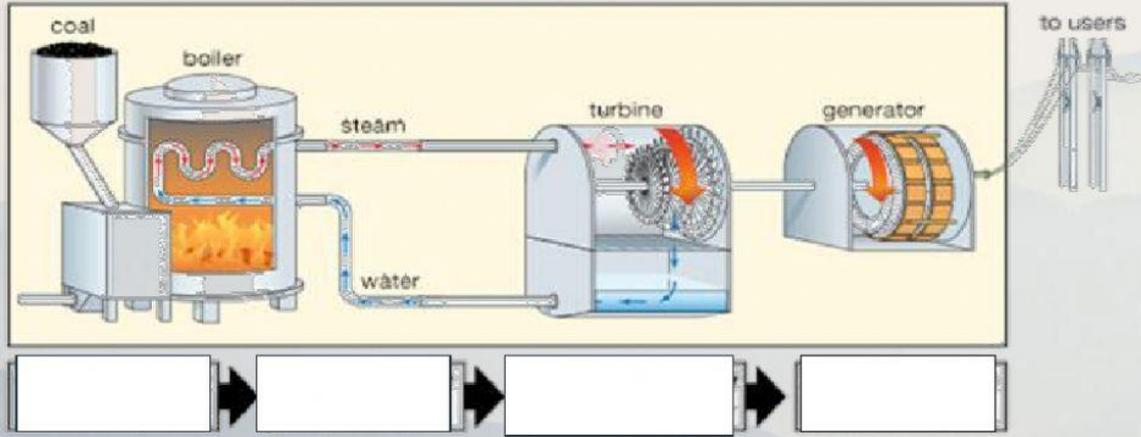


# Electricity



Use your text book page 296-297 to answer the questions  
of electrical energy used in US is produced by burning

The conversion of energy at a coal-fired power plant



**Complete the table ?**

Part of power station	What happens here?	What energy transfer happens here?
Furnace	Coal is	energy in the coal → energy
Boiler 	Water is heated and turned into	Thermal energy → energy of the moving steam
Turbine 	Steam on the blades of the turbine and turns it around	Kinetic energy of the moving steam and the turbine
Generator 	A coil is inside a magnetic field and an electric is produced	energy of the moving coil → energy in wires

pushes / kinetic / heat (or thermal) / turned /  
Mechanical / electrical / burned / steam /  
current /chemical