Fuel Assembly Structures and Control Rods

Fuel Assembly of a Boiling Water Reactor (BWR)
- Handle
- External spring
- Fuel Rod
- Support lattice
- Channel box
- Tie plate
- Fuel Rod
- Cladded fuel tube (zirconium alloy)
- Pellets
- Cross-section of A-A'

Approx. 14cm
Approx. 4.5m
Approx. 10mm

Fuel Assembly of a Pressurized Water Reactor (PWR)
- Fuel Rod
- Control rod cluster
- Control rods
- Top nozzle
- Support lattice
- Fuel Rod
- Cladded fuel tube (zirconium alloy)
- Pellets
- Bottom nozzle
- Cross-section of B-B'

Approx. 8mm
Approx. 4.2m
Approx. 10mm

1 pellet = about 8.3 months-worth of a household's electricity

Approx. 21cm

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