

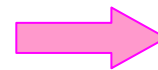
# Experimental Fast Reactor Joyo

The experimental fast reactor Joyo at Japan Atomic Energy Agency's O-arai Research and Development Center was constructed as the first step in sodium cooled fast reactor development in JAPAN.

Joyo is another reading of the characters for the Hitachi-No-Kuni (State of Hitachi) in the Edo Era in Japan and means Eternal Light.

## 【Role of Joyo】

- ① Advancement of technology through operation and experiment.
- ② Conducting irradiation tests on fuel and materials.
- ③ Validation of innovative technology for development of future FBR.



Apply to MONJU and commercialize FBR

## 【History of Joyo】

1977 April	Initial criticality of MK-I core (breeder core)
1978 July	Attain 50MWt
1979 July	Attain 75MWt
1982 November	Initial criticality of MK-II core (irradiation core)
1983 March	Attain 100MWt
1984 September	Close FBR fuel cycle
2003 July	Initial criticality of MK-III core (high performance irradiation core)
2003 October	Attain 140MWt

Reactor Output : 140MW (Thermal)

Fuel : Mixed Oxide fuel

Coolant : Sodium

Operation Time : 69, 855hr  
(Oct. 31, 2006)

