

FUSION

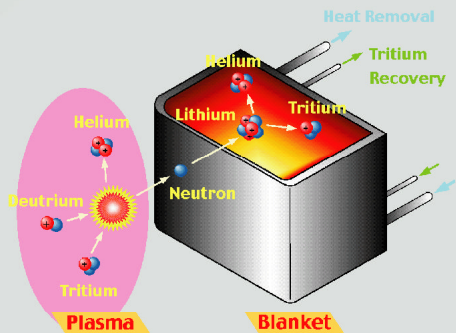
IMPLEMENTING AGREEMENT ON NUCLEAR TECHNOLOGY FOR FUSION REACTORS

OBJECTIVES

Joint programme on the research and development on nuclear technology of fusion reactors.

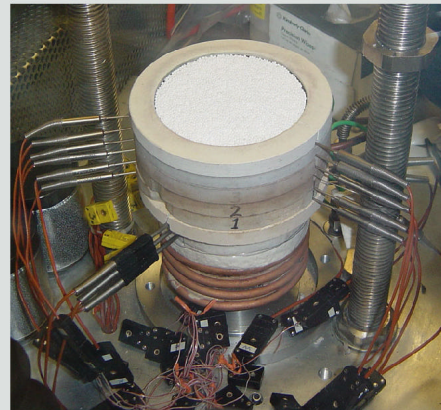
- Sub-tasks:
- Tritium breeding blanket
 - Tritium processing
 - Neutronics experiments

Blanket functional testing in ITER using test modules



Blanket key functions:

- to breed tritium (the fuel of the fusion reactor)
- to extract heat for power generation
- to shield magnets and reactor structures against irradiation



*Thermo-mechanical testing of
a breeding material (UCLA, USA)*



*Gloveboxes for tritium processing
experiments (JAERI, Japan)*



*14 MeV neutron generator
(EURATOM-ENEA, Italy)*

IEA IMPLEMENTING AGREEMENT

Participants to the Implementing Agreement on Nuclear Technology for Fusion Reactors:
Canada, European Union, Japan, Russian Federation, USA