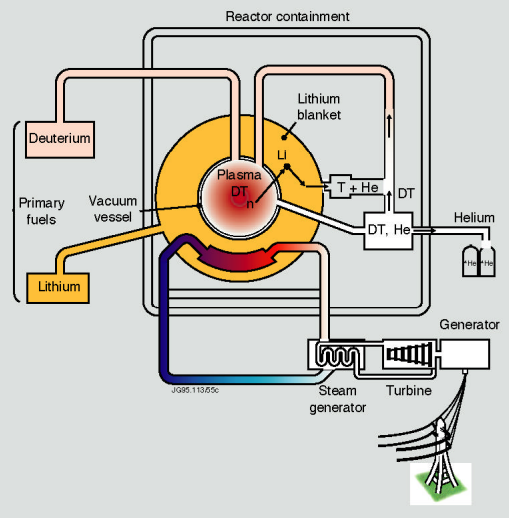


# FUSION

## FUSION POWER: MAJOR SAFETY AND ENVIRONMENTAL ADVANTAGES WITH VIABLE ECONOMICS

**Fusion offers:**

- No greenhouse gas production
- A high degree of inherent safety
- Viable economics
- Plentiful and widespread fuel resources



*Schematic view of a commercial fusion power plant*

### SAFETY, ENVIRONMENTAL IMPACT AND SOCIAL ACCEPTANCE



*Radio-toxicity of the activated material from (same size) power stations*

Fusion has well – attested and attractive inherent safety and environmental characteristics to gain public acceptance:

- Activation is sufficiently short – lived that almost all of the activated material could be recycled or given shallow – land burial, after a few decades.
- The worst accident would result in only limited hazards: comparable to those to which we are exposed from natural causes.

### ECONOMICS AND MARKET PENETRATION SCENARIO

- Energy scenario modelling has shown that fusion could contribute significantly to large – scale energy production during the second half of the century.
- The cost of fusion electricity is expected to be comparable with that from other environmentally responsible sources.