



Completion of DC 1 MV power supply system for ITER neutral beam test facility



Manufacturing and installation of DC 1 MV power supply for ITER NBTF has been completed.

DC 1 MV Power Supply for ITER NBI
1 MV, 60 A for 3600 s
 Established by combining several DC 1MV insulation technologies



Oil/gas insulation in Transformer and Transmission line

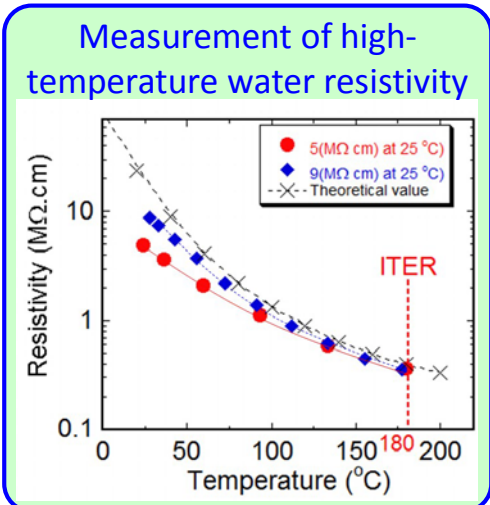
Developed by
FEC 2016

Vacuum insulation in HV bushing

Progress up to 2018
A. Kojima, FIP/1-3Rc

Insulation with pure water

Progress up to 2018



- The first trial of the high-voltage test on the assembled components started.
- For a risk mitigation, high-voltage was applied to each section.
- As an initial test, the HV test on DCG and DCF was examined, and **DC 1.2 MV was successfully sustained for 1 hour** w/o breakdown.

