USER’S MANUAL: Templates for DGR sizing

The DGR sizing estimation (Disposal area) can be done by using the Template separately for Open Fuel Cycle and Closed Fuel Cycles by providing the input data.

1. Open Fuel Cycle

   Input data required
   - Provide Spent fuel generation (tonnes) from NFCSS simulation results ‘Material Flow calculations’ from “Back End’ tab as total spent fuel discharge “SFD”.
   - Provide value of Fuel assembly weight in tHM/Assy
   - Provide number of Fuel assemblies per cask
   - Tunnel spacing (m) e.g. 25 m for crystalline and 10 m for clay

   Output results
   - Number of packages generated per year (units)
   - No. of packages per unit mass (unit/t HM)
   - Occupied area (M2/unit)
   - Total Disposal Area (M2)
   - Disposal Area (M2/tHM)