

Site (Data) : BRINJE S

Stock of waste as at December 2009

Country: SLOVENIA

Reporting Year: 2009

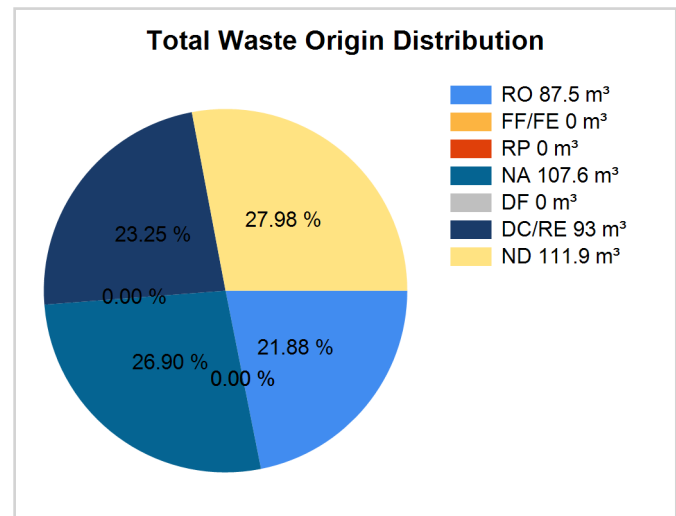
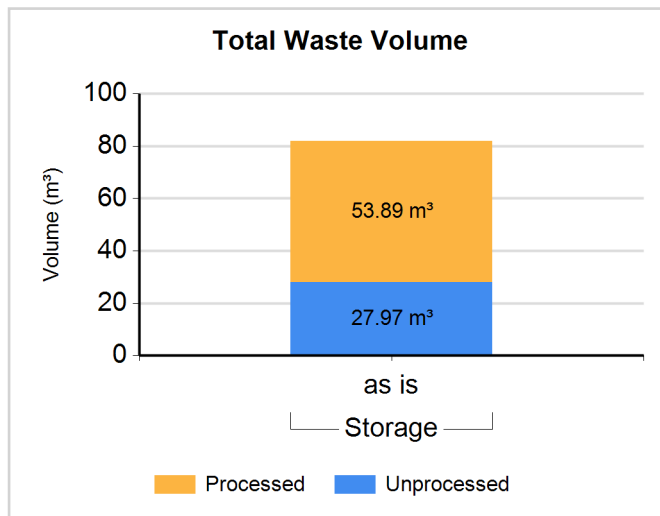
Site Name: BRINJE S

Full Name: Central Storage Facility for Radioactive Waste in Brinje (CSF)

Inventory Reporting Date: December 2009 Waste Matrix Used: IAEA Def.

Waste Inventory

Est=distribution is an estimate, Proc.=Is the waste processed (Yes/No)? RO=Reactor Operations, FF/FE=Fuel Fabrication/Fuel Enrichment, RP=Reprocessing, NA=Nuclear Applications,DF=Defence, DC/RE=Decommissioning/Remediation, ND=Not Determined



Note: where volume "as dispo" is provided, volume "as is" is used in the graph instead.

Waste Class: LLW

| Waste Class Name | Location / Facility | Proc | Est. | Volume "as is" (m³) | Volume "as dispo" (m³) | RO % | FF/FE % | RP % | NA % | DF % | DC/RE % | ND % |
|------------------|---------------------|------|------|---------------------|------------------------|-------|---------|------|------|------|---------|-------|
| LLW | Storage | N | Y | 18.870 | 18.870 | 7.40 | 0.00 | 0.00 | 7.80 | 0.00 | 82.70 | 2.10 |
| LLW | Storage | Y | Y | 35.580 | 35.580 | 60.70 | 0.00 | 0.00 | 8.30 | 0.00 | 0.60 | 30.40 |

Waste Class: ILW

| Waste Class Name | Location / Facility | Proc | Est. | Volume "as is" (m³) | Volume "as dispo" (m³) | RO % | FF/FE % | RP % | NA % | DF % | DC/RE % | ND % |
|------------------|---------------------|------|------|---------------------|------------------------|-------|---------|------|-------|------|---------|-------|
| ILW | Storage | N | Y | 9.100 | 9.100 | 4.50 | 0.00 | 0.00 | 72.90 | 0.00 | 9.70 | 12.90 |
| ILW | Storage | Y | Y | 18.310 | 18.310 | 14.90 | 0.00 | 0.00 | 18.60 | 0.00 | 0.00 | 66.50 |

Spent Sources <=30 years in Storage

| Nuclide | Number of Sources/Total Activity of Sources (GBq) | | | c | o | n | c | a | t | Total Activity for all Groups (GBq) | Decay Date |
|---------|---|--|-----------------------------|---|---|---|---|---|---|-------------------------------------|------------|
| | Group I less than or equal 4GBq | Group II more than 4GBq but less than or equal 4E+4GBq | Group III more than 4E+4GBq | | | | | | | | |
| | num/activity | num/activity | num/activity | | | | | | | | |
| Cm-244 | | 1 | | Y | N | Y | | | | 8.800E+000 | 2008.08 |
| | | 8.800E+000 | | | | | | | | | |

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| | | | | | | | | |
|--------|------------|------------|--|---|---|---|------------|---------|
| Co-60 | 324 | 1 | | Y | Y | Y | 2.140E+003 | 2008.09 |
| | 5.400E+002 | 1.600E+003 | | | | | | |
| Co-60 | 4 | | | N | Y | Y | 1.000E-001 | 2009.3 |
| | 1.000E-001 | | | | | | | |
| Co-60 | 2 | | | N | Y | Y | 1.000E-001 | 1990.5 |
| | 1.000E-001 | | | | | | | |
| Co-60 | 1 | | | N | Y | Y | 0.000E+000 | 1978.11 |
| | 0.000E+000 | | | | | | | |
| Cs-137 | 1 | | | N | Y | Y | 0.000E+000 | 1985.6 |
| | 0.000E+000 | | | | | | | |
| Cs-137 | 2 | | | N | Y | Y | 1.800E+000 | 1988.4 |
| | 1.800E+000 | | | | | | | |
| Cs-137 | 3 | | | N | Y | Y | 2.000E-001 | 2004.1 |
| | 2.000E-001 | | | | | | | |
| Cs-137 | 10 | | | N | Y | Y | 1.460E+001 | 2009.3 |
| | 1.460E+001 | | | | | | | |
| Cs-137 | | 82 | | Y | N | Y | 8.100E+002 | 2005.11 |
| | | 8.100E+002 | | | | | | |
| Eu-152 | | 8 | | Y | N | Y | 3.600E+002 | 2005.11 |
| | | 3.600E+002 | | | | | | |
| Eu-154 | 2 | | | Y | N | Y | 8.000E+000 | 2005.11 |
| | 8.000E+000 | | | | | | | |
| Fe-55 | 4 | | | Y | N | Y | 4.400E+000 | 2004.04 |
| | 4.400E+000 | | | | | | | |
| H-3 | | 16 | | Y | N | Y | 9.600E+001 | 1992.04 |
| | | 9.600E+001 | | | | | | |
| H-3 | 2 | | | N | Y | Y | 4.400E+000 | 2009.6 |
| | 4.400E+000 | | | | | | | |
| Kr-85 | | 3 | | N | Y | Y | 2.790E+001 | 1997.10 |
| | | 2.790E+001 | | | | | | |

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| | | | | | | | | |
|--------|------------|------------|--|---|---|---|------------|---------|
| Kr-85 | | 5 | | Y | N | Y | 5.900E+001 | 2008.08 |
| | | 5.900E+001 | | | | | | |
| Ru-106 | 7 | | | N | Y | Y | 0.000E+000 | 2008.5 |
| | 0.000E+000 | | | | | | | |
| Sr-90 | 101 | | | Y | N | Y | 1.100E+001 | 2005.11 |
| | 1.100E+001 | | | | | | | |
| Sr-90 | 1 | | | N | Y | Y | 0.000E+000 | 1965.1 |
| | 0.000E+000 | | | | | | | |

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Spent Sources > 30 years in Storage

| Nuclide | Number of Sources/Total Activity of Sources (GBq) | | c o n d | u n c o n d | c a t | Total Activity for all Groups (GBq) | Decay Date |
|---------|---|----------------------------|------------------|----------------------------|-------------|--|------------|
| | Group I less than or equal 2 GBq | Group II more than 2GBq | | | | | |
| | num/activity | num/activity | | | | | |
| Am-241 | | 1 | Y | N | Y | 6.500E+001 | 2005.11 |
| | | 6.500E+001 | | | | | |
| Am-241 | 2617 | | Y | N | Y | 3.300E+000 | 2008.12 |
| | 3.300E+000 | | | | | | |
| Am-241 | | 2 | Y | N | Y | 2.300E+002 | 2008.08 |
| | | 2.300E+002 | | | | | |
| Am-241 | 17 | | Y | N | Y | 3.400E+001 | 1976.12 |
| | 3.400E+001 | | | | | | |
| Am-241 | 1075 | | N | Y | Y | 9.000E-001 | 2009.3 |
| | 9.000E-001 | | | | | | |
| Am-241 | | 1 | N | Y | Y | 3.700E+000 | 1991.1 |
| | | 3.700E+000 | | | | | |
| Ni-63 | 1 | | N | Y | Y | 4.000E-001 | 1969.1 |
| | 4.000E-001 | | | | | | |
| Ra-226 | 1 | | N | Y | Y | 0.000E+000 | 1977.10 |
| | 0.000E+000 | | | | | | |
| Ra-226 | 3 | | N | Y | Y | 0.000E+000 | 2009.4 |
| | 0.000E+000 | | | | | | |
| Ra-226 | 240 | | Y | N | Y | 2.700E+001 | 2001.06 |
| | 2.700E+001 | | | | | | |
| Th-232 | 1 | | Y | N | Y | 0.000E+000 | 1986.12 |
| | 0.000E+000 | | | | | | |
| U-238 | 1 | | N | Y | Y | 3.000E-001 | 2009.3 |
| | 3.000E-001 | | | | | | |

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RadioNuclide Inventory in Storage

| | |
|----------------------------------|------|
| Total Alpha Activity (GBq): | 400 |
| Total Beta/Gamma Activity (GBq): | 2800 |

| RadioNuclide | Activity (GBq) |
|---------------------|----------------|
| Americium (Am-241) | 350 |
| Carbon (C-14) | 0.05 |
| Cesium (Cs-137) | 54.7 |
| Cobalt (Co-60) | 1405 |
| Europium (Eu-152) | 200.7 |
| Hydrogen (H-3) | 188.9 |
| Iron (Fe-55) | 0.85 |
| Krypton (Kr-85) | 35.8 |
| Nickel (Ni-63) | 0.28 |
| Radium (Ra-226) | 29.7 |
| Silver (Ag-108m) | 0.01 |
| Technetium (Tc-99) | 0.01 |
| Uranium (U-238) | 10.65 |
| Uranium (U-235) | 0.1 |