



# EM Updates Cleanup 'By the Numbers'

**WASHINGTON, D.C.** – The U.S. Department of Energy Office of Environmental Management (EM) has updated its popular "By the Numbers" feature, which illustrates progress at cleanup sites through quick and clear infographics.

Facts and figures on each major EM site, plus the Savannah River National Laboratory, can be found here. Each site page also features a key look forward to an expected achievement over the next decade, as described in more detail in the Strategic Vision 2023-2033, a blueprint to the program's anticipated accomplishments over the next decade that will protect the public and environment.


Some tidbits from the new "By the Numbers:"

- 31.7 billion gallons of contaminated groundwater have been treated in facilities along the Columbia River and in the center of the Hanford Site.
- More than 75,000 cubic meters of managed transuranic, mixed low-level, and low-level waste at the Idaho National Laboratory Site have been shipped offsite for disposal.
- More than 13.5 million tons of the mill tailings pile at the Moab Uranium Mill Tailings Remedial Action Project have been shipped for disposal, amounting to 85% of the estimated total tons.
- Over half of contaminated sites have been investigated and, if needed, remediated at the Los Alamos National Laboratory Site. More than 19,800 soil and sediment samples have been collected.
- About 52.5 million cubic feet of low-level waste have been disposed of at the Nevada National Security Site radioactive waste disposal facilities since 1961.
- At Oak Ridge, 3,000 acres of land have been placed in a nature conservation easement for public recreation.
- Over the next decade, the Paducah Site is targeted to ship 8.5 million pounds of R-114 refrigerant offsite. To date, 3.8 million pounds have been shipped.
- At the Energy Technology Engineering Center, more than 15,000 gallons of contaminated groundwater have been removed due to successful interim groundwater remediation and site readiness to implement corrective measures.
- More than 994 million gallons of groundwater from four onsite plumes have been treated and are currently managed by pump-and-treat and slurry wall technology at the Portsmouth Site.
- The Savannah River Site's Defense Waste Processing Facility has produced more than 4,370 canisters of glassified radioactive waste since it began operations in 1996.
- Over 73,300 cubic meters of waste have been disposed of in the underground mine at the Waste Isolation Pilot Plant.
- More than $5 billion in complex-wide savings for the EM program have been achieved due to innovations developed in the past 10 years at the Savannah River National Laboratory.
- At the West Valley Demonstration Project, 69 surplus facilities have been removed from the site.

Links:

https://www.energy.gov/em/numbers

https://www.energy.gov/em/annual-priorities-strategic-vision-and-program-plan

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# By the Numbers
# West Valley Demonstration Project

The West Valley Demonstration Project (WVDP) is a radioactive waste management and decommissioning project, which is being conducted by the Department of Energy at the site of the only commercial nuclear fuel reprocessing plant to have operated in the United States. The Western New York Nuclear Service Center and its facilities are owned by the New York State Energy Research and Development Authority. DOE's mission at the site is to satisfy three mandates established by Congress in the West Valley Demonstration Project Act of 1980.

DOE has completed the first mandate of the Act. The 278 canisters of vitrified high-level waste from the former spent fuel reprocessing plant have been removed from the Main Plant Process Building and placed into vertical storage casks. Demolition and waste disposition of the Vitrification Facility were completed in September 2018 and January 2019, respectively. The demolition of the Main Plant Process Building began on September 21, 2022, and is expected to take about 30 months to complete. DOE continues to package and ship low-level waste from the WVDP site.

**69** **surplus facilities** removed from the site.

**3.2M**

**cubic feet** of low-level waste have been shipped off-site for disposal.

**>7 miles**

**of piping and over 50 tons of vessels and equipment** have been removed from predominantly high-hazard areas of the former reprocessing plant.

**By 2025**

**WVDP** will focus on completing remaining facility decommissioning activities, including demolition of the last remaining major building – the former Main Plant Process Building.

**Approx. 300**

**intermodals of Main Plant Process Building demolition debris** shipped via rail for disposal since October 2022.

**278**

**waste containers** of vitrified high-level radioactive waste were removed from the storage cell in the former reprocessing plant, loaded into 56 vertical storage casks, and stored onsite awaiting a permanent repository.

**28,952**

**cubic feet** of WVDP transuranic waste are stored onsite pending availability of an off-site disposal facility.

**~36,000 square feet**

**of asbestos-containing material** was removed from the former reprocessing plant.

**24M**

**curies** of radioactivity were solidified in 600 tons of glass contained in 275 stainless steel canisters.

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