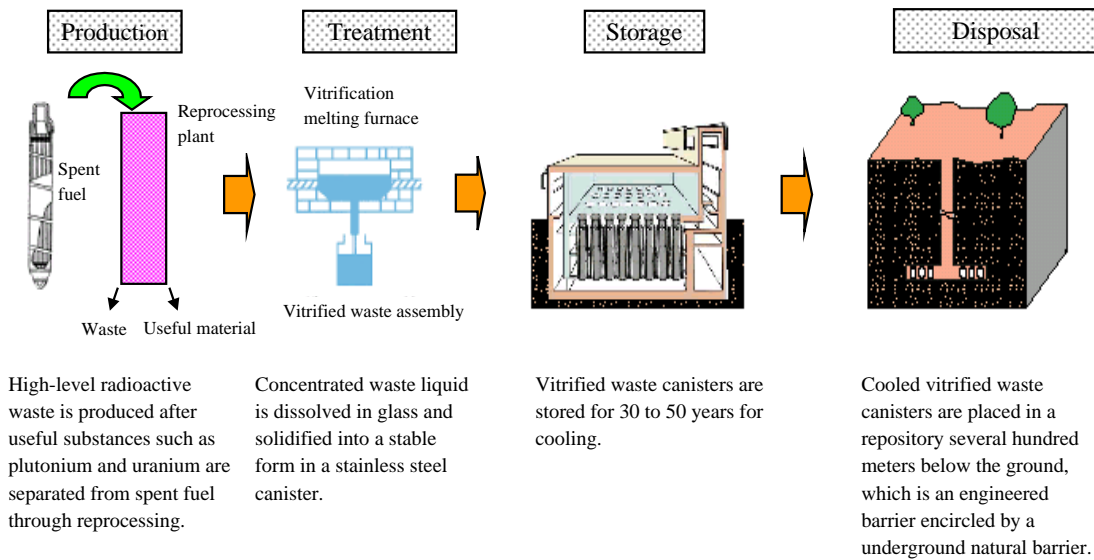


# Basic Principles in the Disposal of Radioactive Waste

- Wastes to be disposed of in geological formations (such as high-level radioactive waste)



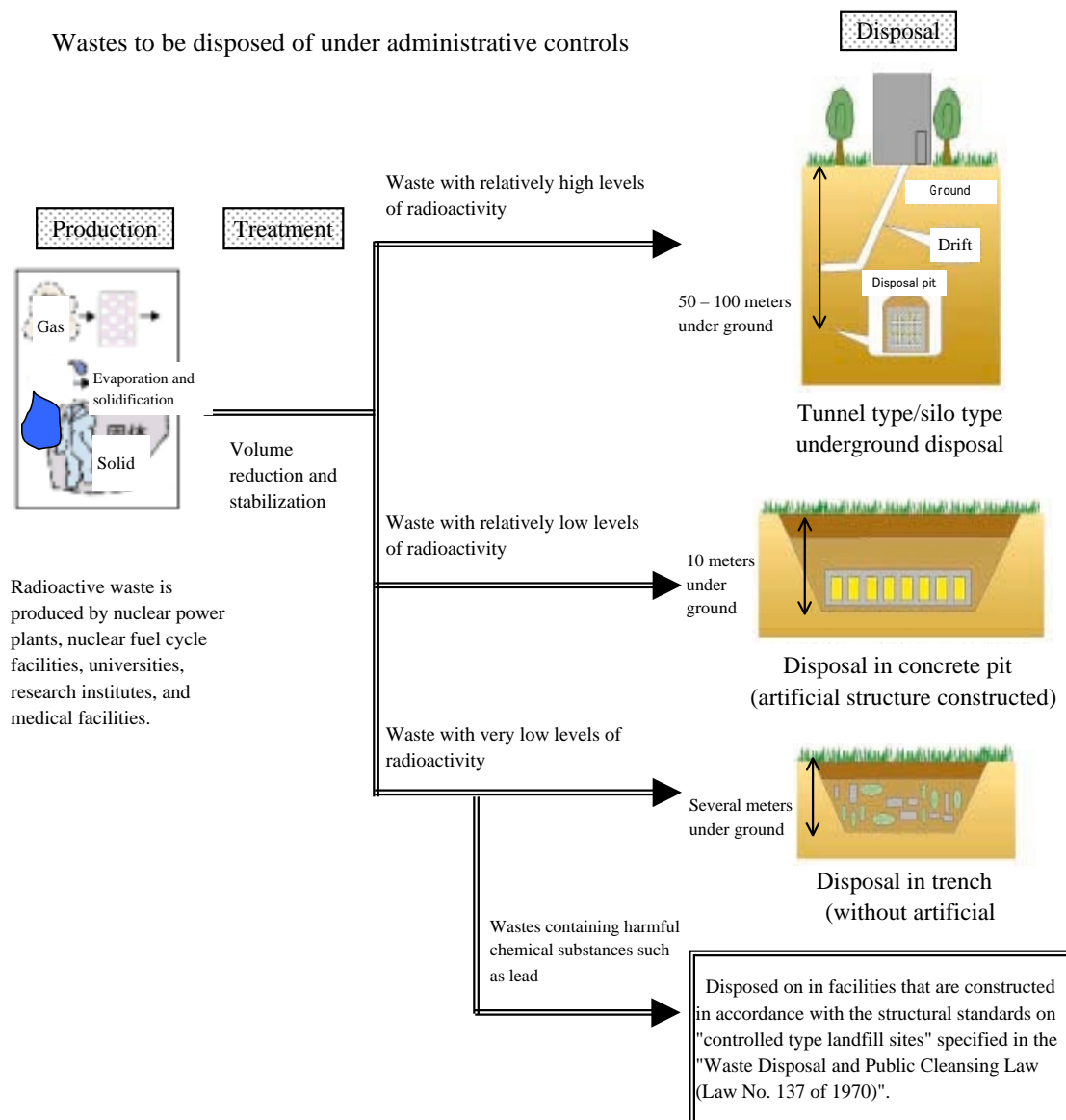
High-level radioactive waste is produced after useful substances such as plutonium and uranium are separated from spent fuel through reprocessing.

Concentrated waste liquid is dissolved in glass and solidified into a stable form in a stainless steel canister.

Vitrified waste canisters are stored for 30 to 50 years for cooling.

Cooled vitrified waste canisters are placed in a repository several hundred meters below the ground, which is an engineered barrier encircled by a underground natural barrier.

## Wastes to be disposed of under administrative controls



Radioactive waste is produced by nuclear power plants, nuclear fuel cycle facilities, universities, research institutes, and medical facilities.