

INCINERATION

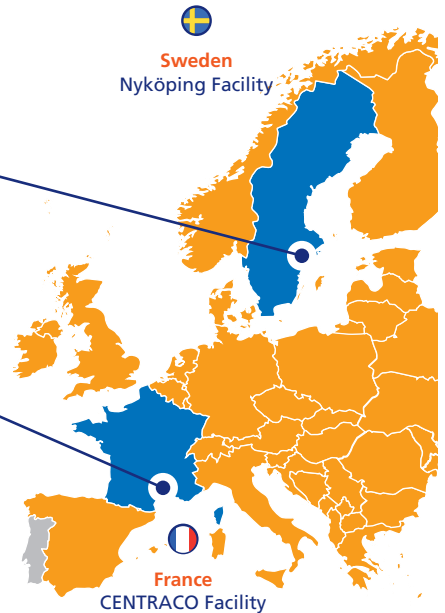
Cyclife Assets

Cyclife operates two radioactive waste incineration units and provides customized solutions for several kinds of waste. Both units process combustible waste produced by nuclear facilities (either during maintenance, operations or decommissioning), laboratories and hospitals.

Types of waste:

- **Solid waste:** wood, or low-level spent exchange resins, active charcoals, filters, gloves, protective clothes, grease, etc.
- **Liquid waste:** laundry and cleaning solutions, oils, solvents, bitumen, tributyl phosphate (TBP), boron concentrates, etc.

The two facilities have a capacity to process up to 6,500 tons of waste yearly.



The volume reduction factor is approx. 97%
The weight reduction factor is approx. 92%

Process

1. Receipt and temporary buffer storage of waste
2. Pre-treatment. When necessary, conditioning of solid waste by crushing, compacting or bagging
3. Treatment by incineration
4. Conditioning of the final waste and immobilization on request
5. Return of conditioned final waste for storage or final disposal

Acceptance

Maximum activity/dose rate

- Total emitters $\beta\gamma < 40,000$ Bq/g
- Total emitters $\alpha < 370$ Bq/g

Specificities

Final Packaging

- The final waste is analyzed with regards to radioactivity content (radiological and/or laboratory analyses as per customer request).
- The final waste consists of bottom ash, clinker, refractories, filter dust and out-sorted waste (if any) and is packed and conditioned as per customer request.



Transportation

- Most types of packages of incoming material accepted
- Multi-modal transportation solutions available

INCINERATION PROCESS

