



ONE-STOP NUCLEAR SOLUTIONS TO RESPONSIBLY SHAPE THE FUTURE

As « Architect Integrator »,
EDF masters technical competencies
across the entire lifecycle.

Cyclife is EDF Group's brand
dedicated to the challenges of the
decommissioning market and
the growing requirements
to recycle nuclear waste.

Cyclife

- Develops innovative cost effective solutions for waste management and decommissioning.
- Answers the growing need to reduce and recycle waste and preserve disposal capacity.
- Uses EDF's skills and assets to offer efficient decommissioning and waste management solutions following a Waste-led-decommissioning approach.

DECOMMISSIONING



Plant physical & radiological inventory

Cyclife provides a turnkey state-of-the-art physical & radiological inventory of the entire Nuclear Power Plant, from calculations to final on-site characterization.

Technical support

Cyclife can provide on-site decommissioning projects, taking benefit of its technical expertise in decontamination of systems, structures and sites (soil and groundwater).

Dismantling

Cyclife can perform a wide range of dismantling services, including cold and hot segmentation (for example of primary circuits or other steam supply systems).

CONSULTANCY

Preliminary studies and decommissioning strategy

Cyclife realizes preliminary studies and decommissioning strategies: decommissioning scenario, waste management scenario, environmental impact assessments.

Program and project management

Cyclife offers tools and professional expertise to deliver decommissioning project management solutions and actions to schedule transition period, thanks to the presence of technical experts throughout the entire duration of the project.

Costing

Cyclife assesses, optimizes the risks and contingencies for cost estimates, using technical insights from best international practices, and benchmarking in-house.

Professional training

Cyclife's experts provide bespoke training to decommissioning personnel, from on-site operators to program managers.

WASTE LED
DECOMMISSIONING



FROM CONCEPT
TO FINAL DELIVERY

WASTE MANAGEMENT

Waste characterization

Cyclife carries out an accurate physical and radiological waste inventory to optimize waste management by selecting the optimal route for each waste.

Waste routing

Cyclife operates three European waste treatment facilities, each with unique capabilities and existing secondary waste routes. Cyclife ensures that waste is routed to the facility which offers customers the best technical, economic and regulatory solution.

Waste storage and disposal developments

Design of temporary waste storage facilities and design studies with Andra (French national radioactive waste management agency) for the construction of the French deep geological disposal (Cigéo) dedicated to high-level waste.

Waste treatment engineering

Cyclife provides engineering solutions for the design of waste treatment facilities and innovative processes in this field.

WASTE TREATMENT

Sorting, segregating, packaging and transport

Cyclife supports its customers for waste management and transport from their nuclear site.

On-site services

Cyclife has developed an offer to treat waste directly on production sites thanks to mobile processing and conditioning units and personnel able to operate on client's sites.

Metallic waste treatment, melting and recycling

Cyclife processes metallic waste and operates blasting of metallic waste, size-reduction, melting operations and clearance.

Large components

Cyclife owns unique capabilities and expertise for the management of large components that saves and final disposal costs for customers. Cyclife's offer integrates chemical and physical decontamination.

Incineration

Cyclife incinerates combustible, solid and liquid waste. Cyclife also treats waste arising from hospitals and laboratories.

Pyrolysis


Apart from traditional incineration, Cyclife also uses pyrolysis, in which material is treated by dry distillation without any oxygen.



INNOVATIVE
ONE-STOP SOLUTIONS

EUROPEAN FOOTPRINT

Cyclife's activities are delivered through a holding company, several subsidiaries in Sweden, the UK and France and EDF Group's resources.

 **UK | Workington facility**  **30-staff**
 → Size-reduction and shot blasting: 3,000 T/year



Recycling operations in MRF facility.

 **SWEDEN | Nyköping facility**  **90-staff**

- Melting: 5,000 T/year
- Incineration: 500 T/year
- Pyrolysis: 50 T/year
- Large components workshop: 2,000 T/year
- Decontamination & segmentation of components up to 400 T
- Clearance: 2,500 T/year



Melting operations in Swedish facility.

 **FRANCE | Lyon and Paris**  **700-staff**

- engineers specialized in decommissioning, waste management and safety and environmental studies





Dismantling at Chooz A.

 **FRANCE | CentraCo plant**  **280-staff**

- Melting: 3,500 T/year
- Incineration: 6,000 T/year
- On site: mobile units
- Large components workshop: decontamination & segmentation of components up to 200 T



Incinerator in CentraCo.

-  Our locations
-  Our experiences

Cyclife has a proven track record in decommissioning and waste management worldwide for more than 40 years.

Cyclife is part of eNPM, EDF Nuclear Performance Model.



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