



TRACTEBEL

ENGIE

Decommissioning



Offering independent, tailor-made and cost effective services for your decommissioning project

Our experts help you prepare the post-operational and decommissioning phases. They define and analyze the decommissioning strategy, draft the plan and provide support during the project's implementation and execution. We provide an integrated approach to decommissioning which encompasses safety and licensing, civil works, nuclear systems, mechanics and handling, radiation protection and waste management.

Our approach

Provide you with an optimized & cost-effective decommissioning solution by:

- characterizing waste streams
- reducing personnel exposure
- assessing the planning of the various activities

Our services

- Studies for preparing the post-operational and decommissioning phases
- Dismantling scenarios' identification and comparison (feasibility studies, cost benefit, analysis, etc.)
- Identification of required modifications of existing systems and of the need for new facilities
- Physical and radiological inventory using in-house database and software
- Various authorization documents' writing such as safety report, environmental impact assessment report, radiological protection concept, decontamination plan, decommissioning plan, demolition plan

In-house computer codes

- LLWAA-DECOM: Radiological characterisation code developed for predicting the contamination deposited on the systems and equipment of the NPPs to be decommissioned)
- DBS (Data Base Sheets): computer code assessing the key parameters of decommissioning activities: cost, planning, manpower, radiological exposure, production of radioactive waste)



Acting as project manager or architect/
owners' engineer to support you in
the implementation of your decom-
missioning activities



SOME REFERENCES DECOMMISSIONING

Belgium - ENGIE Electrabel - Development and validation of LLWAA-DECOM computer code for the radiological characterisation of future decommissioning of NPPs

Belgium - ENGIE Electrabel - Engineering support for final shut down and decommissioning project preparation of the Belgian NPP Fleet

Belgium - ENGIE Electrabel - Decommissioning plan and preparatory work for the shutdown and dismantling of the first NPP in Doel

Belgium - ONDRAF Belgian Waste Management Agency - Architect Engineer for decommissioning the ONSF facilities located at Fleurus (formerly Best Medical Belgium facilities) comprising two cyclotrons, laboratories, hot cells, etc.

Belgium - BELGONUCLEAIRE - Assistance in decommissioning the MOX facility at the Dessel site

Belgium - ONDRAF - Architect Engineer for dismantling high activity liquid waste tanks located in buildings 105 and 122 at the Belgoprocess site

Belgium - SCK-CEN - Involvement in the decommissioning project of the BR-3 reactor at Mol

France - CEA - Audit of the UP1 decommissioning programme on the Marcoule site

France - CIS Bio - Cost audit for the decommissioning of CIS Bio International

France - EDF - UNGG reactors deconstruction, Civil Engineering

The Netherlands - GKN - Preparing a new estimate for the decommissioning costs of the Dodewaard NPP

Italy - SOGIN - Radiological characterisation of the primary system of the Trino NPP with the LLWAA-DECOM computer code

Italy - JRC ISPRA - Engineering Assistance on the ISPRA decommissioning & waste management program

Bulgaria - EC - Technical design for the decommissioning of the Kozloduy NPP units 1 and 2

Slovenia - ELES GEN - Expert advice to Slovenia regarding the Krsko NPP decommissioning fund

Slovakia - EBRD - Decommissioning plan, decontamination plan and demolition plan for the Bohunice V1 NPP

Lithuania - EBRD - Participation in Project Management Unit for decommissioning of Ignalina NPP units 1 and 2