

# Waste, storage facility design



*Environmental respect is a fundamental challenge facing waste management. Whatever the nature of the waste is, a proven technical solution must be implemented to control discharges into the natural environment and assure long-term containment.*

GINGER Environnement & infrastructures provides local authorities and private storage facility operators with a global expertise offer allowing the development of waste treatment and sorting, landfill rehabilitation and the creation or extension of waste storage facility projects of all sizes, from the upstream studies through to comprehensive project management.

## KNOW-HOW

The development of multidisciplinary teams within GINGER Environnement & infrastructures comprising environmental experts, earthworks specialists, geotechnicians, hydraulic engineers, landscape designers, architects, external works engineers and waste specialists assures a coherent global approach to treatment, sorting and storage problems.

All technical and environmental components of a project are handled by dedicated and integrated teams.

GINGER Environnement & infrastructures acts as a partner to those involved in the waste sector. It accompanies decision-makers from the outset, helping to find the best site through to the construction and operation of the works. GINGER Environnement & Infrastructures can operate as a standard project manager, as a design & build contractor, or within the framework of public service delegations.

## OUR MISSIONS

### • Upstream studies

- Environmental diagnosis within the framework of rehabilitation or extension works,
- Future sites surveys: geological, hydrological and environmental studies,
- Geotechnical studies: site characterisation, earthworks optimisation, best use of low permeability materials,
- Permits reports: impact assessment, technical and danger studies, drainage studies.

### • Complete or partial project management

- Feasibility studies,
- Detailed designing,
- Project,
- Assistance in organising works contracting:
  - Preparation of the contractor tender documents,
  - Analysis of tenders and contract finalisation.



- Supervision of the execution of works contracting,
- Programming, Planning and Coordination,
- Assistance in handover operations.

All these assignments meet the requirements of the MOP law (French law dealing with private project management).



### • Technical inspection

- External inspection of works under the client's liabilities,
- External inspections for contractors.

### • Client assistance

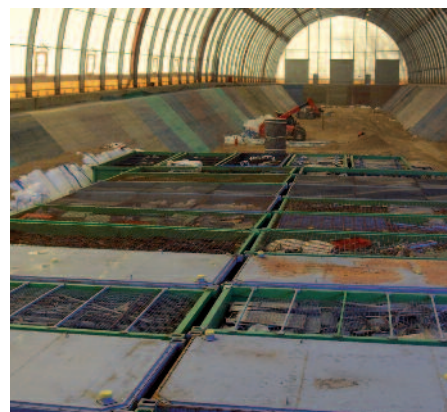
- Technical, environmental, financial and legal management,
- Introduction of project progress diagnosis systems,
- Programme management and monitoring of completion times.

## • The works

- Old household refuse or industrial waste disposal sites: rehabilitation in view of their closure,
- Household refuse or industrial waste storage installations: extension or creation of waste disposal sites (class 1 or 2 facilities),
- Inert materials sorting and storage platforms: creation or extension,
- Polluted sites, brownfield sites: remediation and conversion,
- Household refuse sorting and treatment facilities.

## • Post-operational start-up monitoring

Apart from being required by regulations, the implementation of a monitoring protocol and system is a critical factor in assuring the long-term operation of the facility.



## REFERENCES

### Disposal site rehabilitation

- Complete project management for the rehabilitation of the Molières disposal site and the Pignan dump site.
- Rehabilitation project management for the Calvi park disposal site.
- Rehabilitation project management for the Bitry Commune municipal disposal site.
- Reinforcement of the radioactive waste storage centre cover for the Manche centre, ANDRA.
- Safety measures and mechanical stabilisation of the Canari industrial site - former abandoned asbestos mine (ADEME).

### Creation and extension of storage facilities

- VKP storage facility (New Caledonia): project management for the designing and construction of the works.
- Low level radioactive waste storage facility: TFA ANDRA site in Soulaines Dhuis. Technical assistance to the client for the awarding of a design, construction and operation contract - Technical expertise.
- Project management for the construction works required to continue operating the Châtenois waste storage facility.
- Creation of a household and related refuse installation in a limestone quarry site - Commune de Montpellier.
- THOT ultimate waste storage facility - Study and modelling of the bedding behaviour of the 400,000 tons extension on compressible soil (GINGER CEBTP).

### Creation and construction of waste disposal centres - Transit centres

- Construction of eight waste disposal centres to inspect incoming materials - SMICTOM in Alsace Centrale.
- SYDED (Haute-Vienne): regulatory permits reporting, preparation of the building permit and preliminary design for two household refuse transfer docks in Rochechouart and Saint-Yriex-la-Perche.
- Project management for a waste disposal centre in Lugin.
- Project management for a household and related refuse transit station in the Commune of Marsonnas.

### Client assistance

- Technical waste burial centre in Puy-Long: assistance in organising a public service delegation for the extension of the storage facility and construction of a mechanical-biological sorting facility.
- Assistance in preparing an operation authorisation request file in view of creating a mechanical-biological sorting facility and a waste storage facility for SEEDR.
- Client assistance, soil stability study and rehabilitation of the Cornus dump.
- Search for class 2 waste treatment and storage sites - SYVETOM.

### Technical supervision

- Bovès waste storage facility: assignment for the external supervision of earthworks and waterproofing works for the southern extension of the site.
- Granges waste storage facility: external supervision of earthworks and waterproofing.



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