

RESOURCES FOR MUNICIPAL SOLID WASTE

RELIABILITY
FLEXIBILITY
PERFORMANCE
TRACEABILITY
PRODUCTIVITY
AUTOMATION
MANAGEMENT
MAINTENANCE
ERGONOMICS

Resources to meet challenges: the transition to a greener, more eco-friendly world are priority issues for both Public Authorities and private companies. **Ar-Val is the partner that you need.**

Ar-Val designs, produces and commissions made-to-measure municipal solid waste sorting and treatment plants. This all-inclusive, ingenious and multidisciplinary service means that Ar-Val has been a major player in the waste management and treatment field for many years.

Ar-Val designs recovery and treatment processes which take into account legislative changes. These processes can be modified over the long and short-term in order to adapt to changes in incoming material and in the products to be sorted and recovered. .

Ar-Val innovates constantly in order to anticipate and react to the changes in the composition of the waste to be sorted, and to changes in legislation.

Ar-Val puts all of its brainpower at your service. Our teams of expert engineers and technicians are available to listen to your requirements and to offer you solutions that are adapted to your needs.

RESOURCES IN EXPERTISE :

The partnership and the synergy between the companies in the group mean that Ar-Val has acquired extensive experience and a wide range of skills. We have designed and produced a large number of sorting and treatment plants, able to treat thousands of tonnes of MSW per year. .



RESOURCES FOR THE ENVIRONMENT

Biowaste represents significant proportion of residual waste. However, once it has been transformed, it can become an energy source which can then be returned to the soil as fertiliser.

Reusing food waste as compost is eco-friendly, and our solutions mean that you can play a part in the incorporation of organic matter in the circular economy whilst meeting the quality requirements of production.

FROM WASTE TO RECOVERY

Ar-Val designs innovative processes to sort, recover and treat municipal solid waste and assimilated material in order to either return it to the soil, to produce energy or to turn it into recoverable material. Whether we are dealing with garden waste, biowaste, residual municipal solid waste or sewage sludge, our equipment and processes guarantee a profitable treatment solution.

■ **Resources for recovery:** Ar-val has developed municipal solid waste sorting processes in order to extract secondary raw materials such as ferrous and non-ferrous metals, but also cardboard, plastic film and packaging and fibrous material.

■ **Resources for treating organic waste:** Ar-Val has developed a complete range of technology to meet your specific needs in terms of composting, stabilization and biodrying:

- **TUNNEL COMPOST :** Ar-Val's Tunnel Compost system can carry out composting, biodrying or stabilization procedures in ventilated, fully-enclosed concrete tunnels.
- **TOPCOMPOST :** Ar-Val's TopCompost system consists of fully enclosed composting biodomes. These robust structures are easy to install and easy to use.
- **COMPOST COVER :** Ar-Val's Compost Cover system is a high-performance, good value composting solution. The semi-enclosed ventilation system does not require a building nor an air treatment system.
- **COMPOST TURNER :** This aerobic fermentation process technique accelerates the composting process thanks to its automated turning and controlled forced ventilation system.

■ **Resources for energy production:** Ar-Val can offer the **BAL-HYBRID® dry anaerobic digestion tunnel technology**. This process allows for optimized control of the process throughout the production of high methane content biogas. It is profitable, and you are guaranteed a compliant, safe and efficient anaerobic digestion system. .

■ **Resources for Refuse-derived fuel (RDF):** Ar-Val can offer solutions for the production of RDF or high-calorific fuels from waste, such as municipal waste, bulky waste, refuse from the composting process... which have a high energy potential and can be used as an alternative to fossil fuels.

RESOURCES FOR SUPPORT :

Ar-val will provide you with support and guidance for the development of your waste sorting and recovery project, from the simplest to the most innovative processes.

Our teams of expert engineers and technicians are available during the design, production and industrial commissioning phases of your project.

Ar-Val is at your side, committed to performance and guarantees.



RESOURCES FOR STANDARDS

Ar-Val equipment meets all environmental, health and safety standards and legislation. Our sorting cabins meet the French X35-702 standard in order to improve comfort and working conditions for sorting operators. .



CONNECTED TOOLS

Ar-Val has developed a full range of software for optimisation of waste sorting processes, and for facilitation of monitoring, management, automation and maintenance. .

AR-VAL
CERES GROUPE

Tel : +33 2 97 44 44 10 • Email : contact@ar-val.fr • 18, rue des Frères Montgolfier - ZA de Kermelin Est - BP 10052 - 56892 Saint-Avé - France

www.ar-val.com