

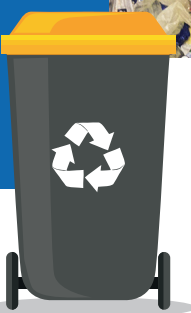
## RESOURCES FOR MATERIAL RECOVERY

**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 turnkey materials recovery facilities.** 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 scalable sorting processes** which can be adapted according to long and short term changes in incoming material and in the products to be recovered and recycled.

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



**RELIABILITY**  
**FLEXIBILITY**  
**PERFORMANCE**  
**TRACEABILITY**  
**PRODUCTIVITY**  
**AUTOMATION**  
**MANAGEMENT**  
**MAINTENANCE**  
**ERGONOMICS**

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

### RESOURCES IN EXPERTISE : AR-VAL IS FIRST-RATE

More than 70 **completed materials recovery facilities** for dry mixed recyclables, with capacities ranging from a few thousand tonnes to over **60 000 tonnes / year.**





## OUR CHALLENGE: PERFECTING MATERIALS RECOVERY TECHNOLOGIES.

■ In terms of resources for management of dry mixed recyclables, Ar-Val has the skills to produce high-performing, reliable and innovative material recovery facilities whilst taking into account your needs, the requirements of a constantly changing sector, and the need to keep costs under control.

Ar-Val is focused on monitoring new technologies in order to take on board changes in legislation and in the sorting habits of the general public.

■ Resources for technological challenges: Ar-Val goes far beyond its original role as an assembler and integrator : we now offer a variety of services in order to provide high-tech, robust materials recovery processes which are configured to meet your exact needs.

Our technical teams are the source of major innovations which have revolutionized management of dry mixed recyclables :

- **Efficiency** : Development of a large number of digital tools for centralized production management (Ar-Val Prod<sup>®</sup>, Ar-Val GMAO<sup>®</sup>, Ar-Val Remote<sup>®</sup> et Ar-Val Prod Mobile)
- **Performance** : Robust waste sorting processes which are made to measure and designed to deal with all types of waste input.
- **Productivity** : Design and optimization of processes in order to increase productivity, for example with sequential sorting in manual sorting cabins.
- **Automation** : Development of a supervision tool which means that it is possible to control and to obtain accurate performance figures for the sorting line, automatic baling.
- **Safety** : Better working conditions in terms of access, health and safety for maintenance and sorting staff.
- **Monitoring** : Development of tools for permanent monitoring of the sorting line in order to anticipate and correct any non-compliant aspect, and development of waste characterisation equipment.
- **Quality** : High guarantees on the quality of recovered products, for example the Recyfilms module for extraction of flexible plastics.

■ Resources for Refuse Derived Fuel : Ar-Val can offer solutions for product of RDF from waste, such as rejected material from the materials recovery process, the composting process or commercial and industrial waste recovery process and which have high energy potential, and which can be used as a substitute for fossil fuels.

### RESOURCES FOR BEHAVIOUR

Waste sorting, particularly sorting of dry mixed recyclables, is progressively becoming an eco-friendly habit acquired by all waste producers.

Ar-Val takes on board all the actions carried out by the different stakeholders in the recycling process, whilst abiding by environmental legislation.

Ar-Val will assist and guide you. We guarantee that we will provide you with the most appropriate solutions to help you to play a role in the circular economy.

### RESOURCES FOR INNOVATION : RECYFILMS

Following experimentation in France to include all types of plastics in recycling schemes, Ar-Val and its partners Citeo, Valorplast, Tamra and Pizzorno Environnement undertook to design, produce and commission a revolutionary system:

Recyfilms, the solution for extraction of PE films has been designed to improve recovery of flexible packaging and plastic films: recovery rate, controlled loss of materials, a purity level suitable for recycling, improved working conditions.



### RESOURCES FOR STANDARDS

Ar-Val equipment meets all environmental, health and safety standards and legislation. Our sorting cabins meet the French AFNOR 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

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