

ADEME
 Agence de l'Environnement
 et de la Maîtrise de l'Energie

**Club ADEME
 International**
**SARL MEZAMONDE**

Valorization of effluents from laying hen farms


 Algeria, Aïn
 Témouchent area

Intervention time
 2019 - today

Engaged workforce
 3 people

Thematic



Prestations provided

 Services
 Engineering
 Equipment supplier/manufacturer

The project aims at valorizing the droppings of laying hen farms through composting processes using Marcel Mezy Technologies (MMTs), droppings being considered in many farms as livestock waste or poor quality fertilizers. MMTs are a selection of «spontaneous» micro-organisms. They rapidly transform all organic matter (decomposing vegetable/animal matter) into humus, developing soil fertility. Humus is not only a nutrient reservoir for plants and soil life, but also acts like a sponge, retaining water in summer and letting it drain away in winter.

The contribution of MMTs and the know-how of SARL MEZAMONDE have enabled the valorization of these droppings as a high quality organic amendment and to eradicate the problem of odours which prevented the storage of droppings close to inhabited areas. Indeed, thanks to MMTs, the mineral elements contained in farm effluents and composts are fixed on the clay-humic complex and are naturally restored to the plants in a balanced way. The plant therefore self-manages its diet. These technologies also have a drying role, making compost easier to work with and spread. In addition, they have the power to reduce the release of ammonia nitrogen and therefore odours, thus preserving the well-being and health of everyone (animals, farmers, neighbours).

MEZAMONDE provides the following services:

- Implementation of composting protocols;
- Elaboration of schemes for the development of granulation infrastructures;
- Analysis of physico-chemical and microbiological data;
- Daily accompaniment;
- Turnkey supply of MMTs composting additive.

Algerian partner



French partner



Supply of agricultural equipment : windrow turner, tractors, granulator...

Post-project results

Benefits for France:

- Sale by French companies of services and equipment for export, i.e. 300,000 euros;
- Establishment of long-term cooperation and partnerships between French companies and the Algerian private sector;
- Potential for new projects in Algeria with the same problems, allowing Mezamonde to eventually valorize up to 100 tons of manure per day (market potential estimated at several million euros/year);
- Promotion of French expertise, know-how and practices in the field of recycling and the circular economy of farm waste; Promotion of sustainable and environmentally friendly agriculture.

Benefits for Algerian society:

- Modernization of agricultural equipment;
- Modernization of scientific analysis techniques;
- Economic and environmental valorization of effluents;
- Staff training;
- Possibility of attracting new investments on other projects;
- Improvement of agricultural yields.

Environnemental Impact



- Eradication of ammonia emissions;
- Improvement of soil structure, carbon storage, 40% water savings;
- Hygienisation of effluents (absence of pathogens).



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With more than 130 members, the Club ADEME International assists the SMEs in its network in the development of innovative projects and international partnerships. The objective is to participate in the dissemination of French knowledge, by supporting the private and public sector in the ecological and energy transition sector in order to meet global environmental and climate challenges.

More information : www.clubinternational.ademe.fr

