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European Commission

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Waste Substrates:
Manure & Wastes from food and diary industry & Crop residues

Use:
1. Bio-energy sources
2. High quality Fertilisers
3. Bio-products

Objectives

- Biohydrogen and/or biomethane production by anaerobic co-digestion use in energy and transportation sectors;
- Optimization of ligno-cellulosic wastes degradation ;
- Development of new energy-saving treatments for post-fermentation residues;
- Optimization of residual digestate use:
  - high quality compost;
  - renewable building material.

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Expected Outcomes and Main activities

1. Optimization of biohydrogen and/or biomethane production (pilot –demonstration activity/SMEs);
2. Pilot scale portable reactor for using biomasses in situ;
3. Use of residual digestate as innovative building material and high quality compost (pilot activity/SMEs);
4. Sustainable post-treatment for reduction of unexpected gases (SMEs);
5. Digestate analysis/residual pathogenicity, sanitary implications and possible control options;
6. Use of renewable resources for the energy/transport sectors (demonstration activities/SMEs);
7. Reduction of pollutant emissions from internal combustion engines;
8. Establishment of a knowledge platform to share info with farmers and breeders.

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