

PERSEO Bioethanol®

Sustainable Bioethanol Production from Municipal Solid Waste

Caterina Coll Lozano. Chief Operating Officer. IMECAL S.A. 21st of October. The Business Booster, Berlin.





Key facts

Current global MSW generation 1.3 billion t/yr.
It is expected to double this amount in 2025.



- > Energy for transport is the most important end-use energy in EU.
- > Transport is the second largest contributor of GHG emissions of the EU.
- > Crude oil imports in Europe (2014) were 19.67% of total world (EC).







Challenges

Organic solid waste treatment:

Biowaste treatment is a big issue in Europe and Worldwide, demanding **sustainable and competitive waste treatment process.**

Directive 2008/98/EC on waste (Waste Framework Directive)

Bioethanol production:

Sustanaible biofuels demand are increasing (\checkmark energy dependence, \checkmark pollutant emissions) Development in early stage anywhere in the world.

Directive 2009/28/EC on the promotion of the use of energy from renewable sources. (10% substitution RE from transport in 2020).

The European Strategic Energy Technology Plan (SET-Plan).

















PERSEO Bioethanol Competitive Advantage

The Process is Real, Feasible, Replicable and Profitable.

Proven Pre-industrial process:

- Pilot plant from 2007. Start up problems solved.
- Pre-sorting process solved: Stable process.



<u>Technology:</u>

- Simple Biotechnologycal Patented process.
- Tailor made projects. Modular design.
- Better economical results than actual Waste treatment technologies.
- Reduction of GHG.





PERSEO Bioethanol Bussines model







Team



Vicente Signes Núñez. R & D Manager. Process Engineer. MBA from INSEAD Fontainebleau.

Caterina Coll Lozano. COO.

Chemical engineer. Executive MBA by ESIC. Master degree in environment.

Partners:





IMECAL Engineering department:

Mechanical, process and electrical engineering technicians.



Thank you Any questions?

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