

Integration of solar drying and gasification in the valorisation of sewage sludge at full-scale pilot plant



Webinar Promoting rural bioeconomy through feasible practises: 8 cases from Spain & Portugal

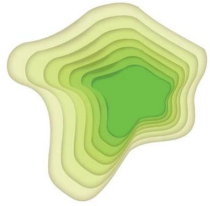
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Virginia Pérez López. CEDER-CIEMAT
virginia.perez@ciemat.es

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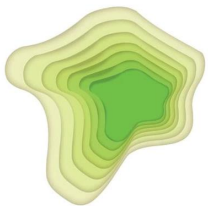
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New environmental sustainable treatment to treat sewage
from WWTP

WWTP = Waste Water Treatment Plant



PROBLEM IT SOLVES



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Increasingly stringent **legislation**

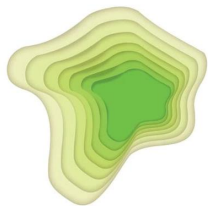
- Increasingly strict microbiological limits
- Upcoming update of Directive 86/278/EEC



High logistics and management **costs**



Conventional sludge management
LIMITED AND COSTLY



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SOLAR DRYING

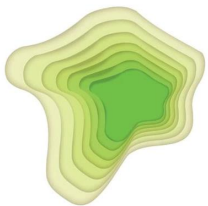


GASIFICATION



ENERGY RECOVERY
(ORC)

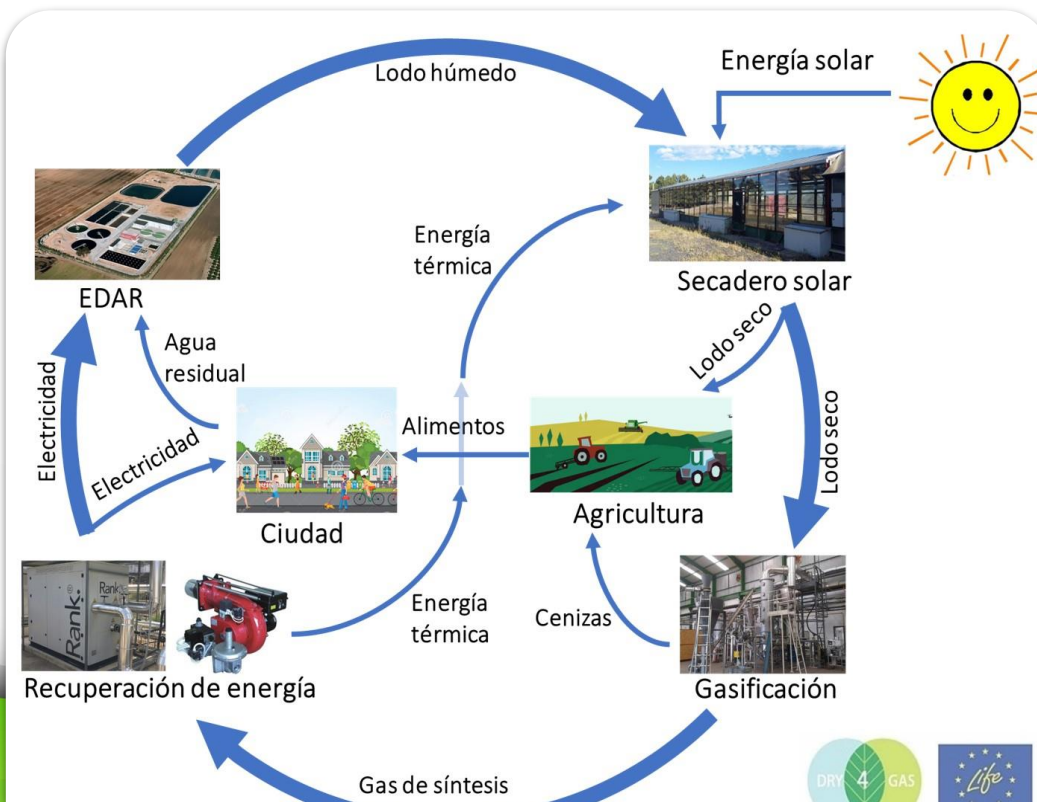


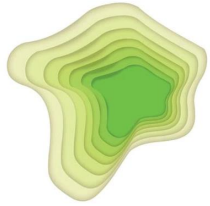


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**Circular
Economy**



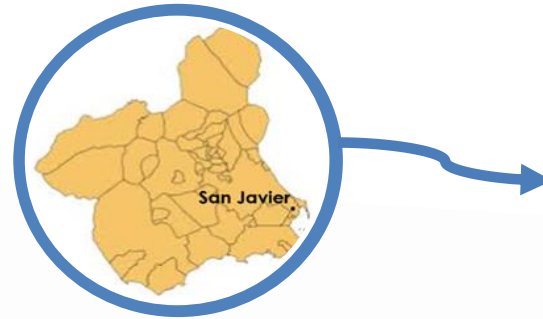
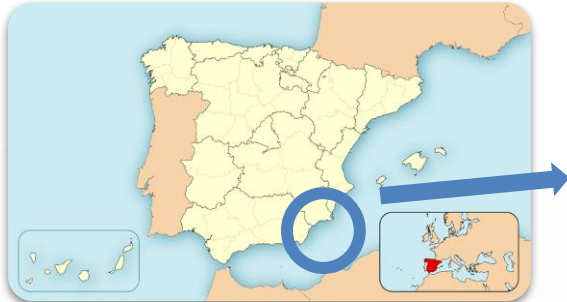


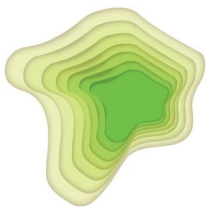
DRY4GAS PROTOTYPE



Demostration prototype in San Javier (Murcia)'s WWTP.
Treatment ALL sludge produced.

- Commissioning phase



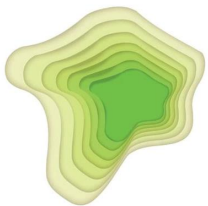


DIFFERENCES WITH OTHER TECHNOLOGIES



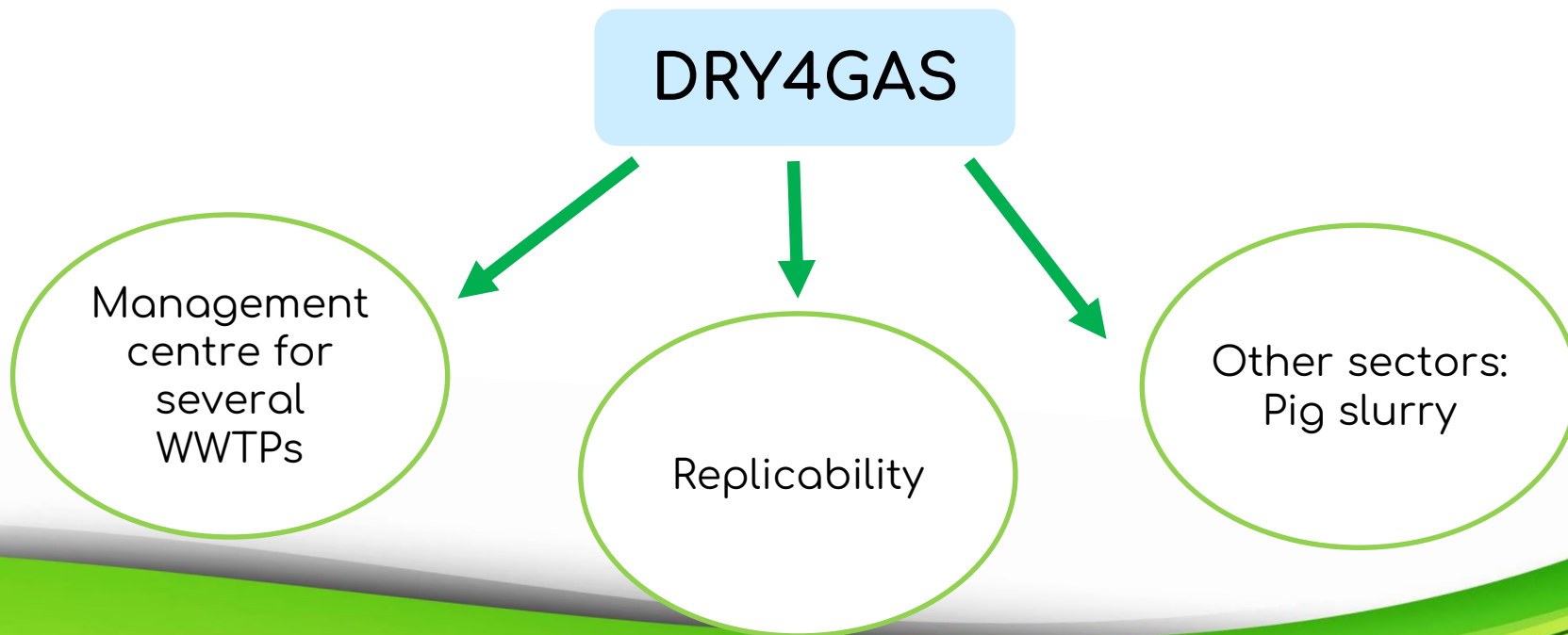
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	COST	ON-SITE TREATMENT	CO2 EMISSIONS REDUCTION	CIRCULAR ECONOMY	RENEWABLE ENERGY
DRY4GAS	€€	✓	✓	✓	✓
Agricultural application	€€	✗	✗	✓	✗
Composting	€€€	✗	✗	✗	✗
Landfill	€€€€	✗	✗	✗	✗
Incineration	€€€€€	✗	✗✗	✗	✗



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Contribution to rural bioeconomy



Work Team



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CONTACT

Virginia Pérez López

virginia.perez@ciemat.es

CEDER-CIEMAT

