



# BOOSTING BIOGAS PRODUCTION WITH OREGE

**A groundbreaking solution  
for Anaerobic Digestion.**

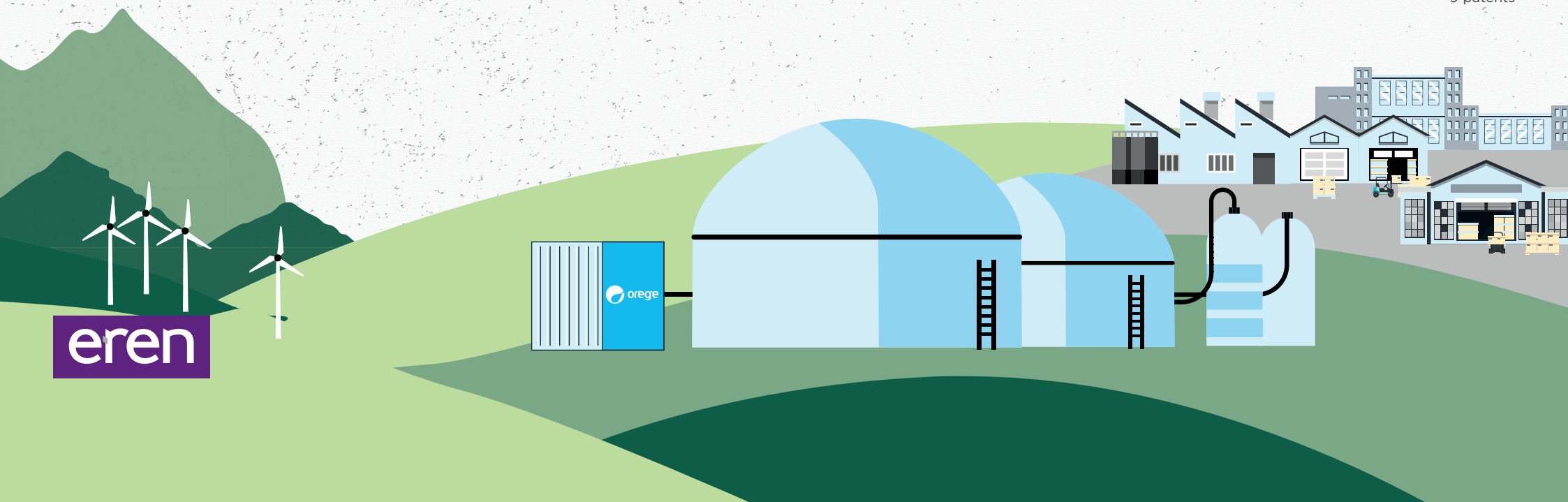
Key player in the circular economy and  
sustainable development space for over 15 years

French company with international coverage,  
a subsidiary of EREN Group

9 patents

## CONTACT

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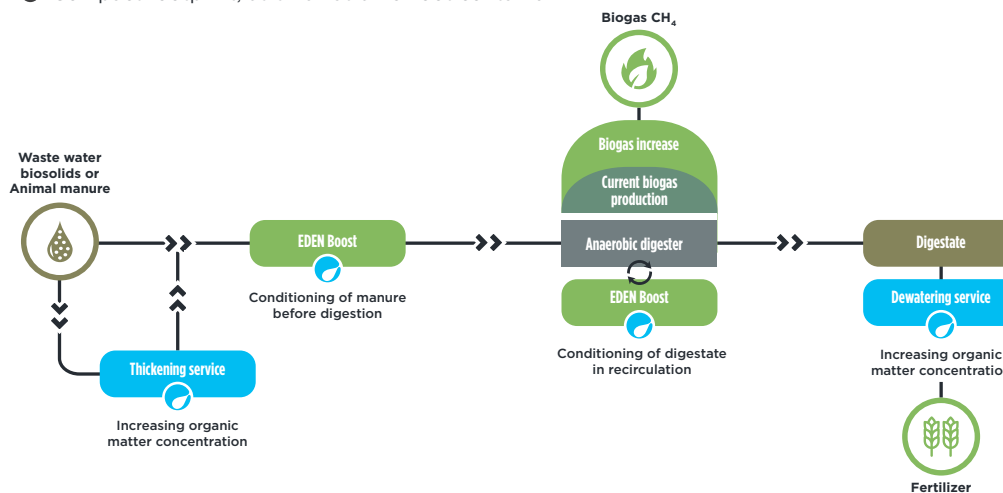




## BOOST YOUR BIOGAS PRODUCTION WITH OREGE CUTTING-EDGE TECHNOLOGY

*Versatile* across farm-based and municipal anaerobic digestion systems, Orega technology *supercharges* digester feedstock and digestate potential leading to *increased biogas production*

- ✓ Compatible to different scale of operation
- ✓ Energy efficiency of EDEN process : 90%
- ✓ Compact footprint, as small as a 20-foot container



## PATENTED SLG® TECHNOLOGY AT THE CORE OF OREGE'S INNOVATION

### Technology Key features:

1. Disaggregation and crumbling of organic clusters
2. Destabilization of microbial cells
3. Micro-bubbling

### Benefits for Anaerobic Digestion:

1. Increasing the availability of biodegradable material
2. Increasing contact surface between microorganisms and substrate
3. Improving pumpability and mixing in digester

Enhanced anaerobic digestion efficiency

Increased biogas production and yield

## ABOUT OREGE AND EREN GROUP

- **Industry focus:** waste-to-energy, biogas, wastewater sludge treatment
- **Technology:** SLG (Solid Liquid Gas) cutting-edge technology enhancing sludge conditioning, thickening, and dewatering processes
- **9 patents**
- **Products:**
  - Equipment sales : thickening and dewatering solutions
  - Mobile sludge treatment services: thickening and dewatering mobile rental units with or without operator for months to multi-year
  - Biogas production: AD feedstock and digestate conditioning services for biogas production
- **Geographies:** US, UK, France, Italy

### Part of EREN Group

Fighting against global warming since 1979. More than 40 years of commitment to the energy transition

Group of 23 companies dedicated to renewable energy production, energy savings and energy storage

## WORCESTER SEVERN TRENT : OREGE TECHNOLOGY TRIAL WITH ONE OF THE LARGEST WATER COMPANIES IN THE UK

### Background

- 4 MGD municipal wastewater treatment plant
- 2 digesters of 100,000 ft<sup>3</sup> each with approx. 120 scfm biogas production
- AD feedstock of 75,000 gpd, blend of primary and biological sludge
- Cogeneration Heat and Power

### Challenge

- Improve organic loading
- Enhance biodegradability of sludge
- Increase biogas yield and electricity revenue

### Outcomes

- 38% increase in biogas production and 24% in biomethane yield