

Integration of electromagnetic field technology in agriculture, wastewater treatment and biogas production

Increase yield. Improve efficiency. Reduce costs.

Inter-Trade Praha spol. s r.o. presents advanced **low-frequency electromagnetic field (LF-EMF) technology — ProEMgen —** designed to improve biological and biochemical processes in various sectors.

Our solution delivers measurable yield improvements ranging from 6 % to 25 %, depending on the application and operating conditions.

Proven applications

Agriculture



- Pre-sowing seed treatment (poppy, soybean, wheat, barley, etc.)
- Increased germination and plant vitality
- Applications in:
 - o Open-field agriculture
 - o Greenhouses
 - o Hydroponic and aquaponic systems

Fermentation processes



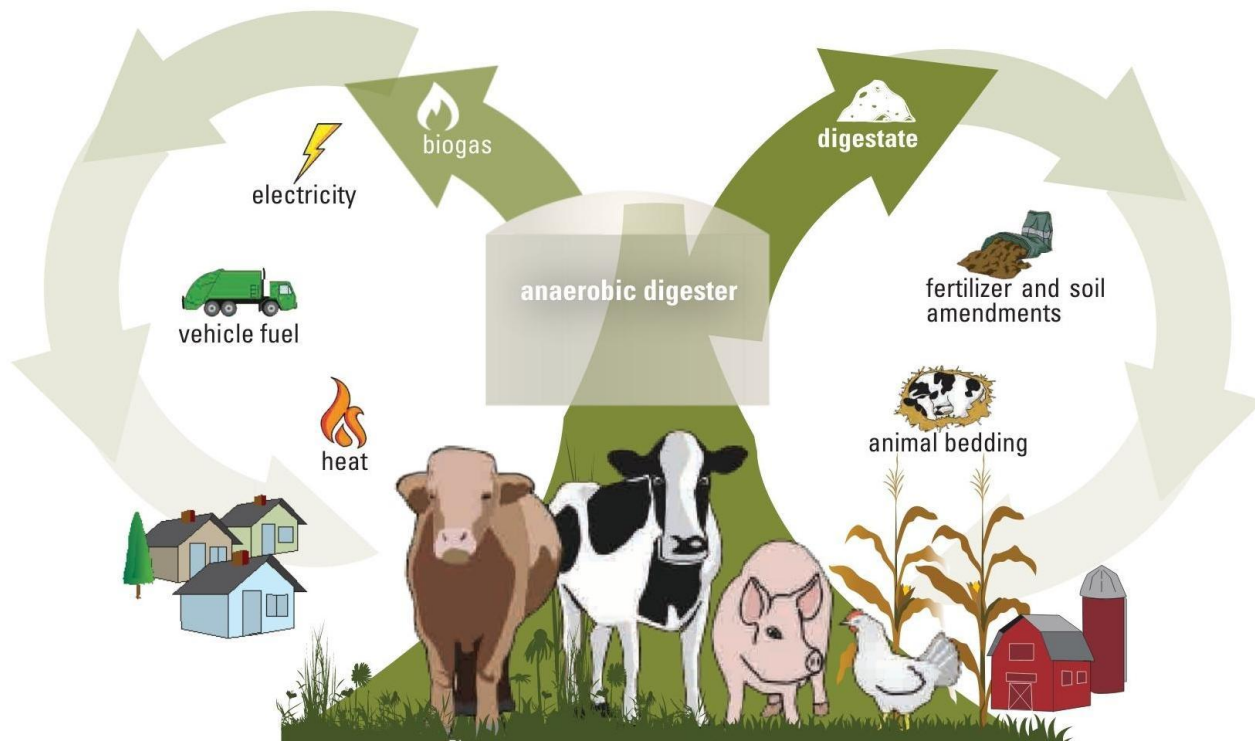
- Brewing, winemaking and alcohol production
- Improved fermentation efficiency
- Increased yield and product consistency

Wastewater and industrial water treatment



- Municipal and industrial wastewater treatment plants
- Accelerated biological oxidation processes
- Lower energy consumption and improved treatment efficiency

Biogas and methane production



- Biogas production from manure and organic waste
- Increased methane yield
- Improved stability of anaerobic digestion
- Optimised performance for biomethane conversion

Technology overview

Our method is based on low-frequency pulsed electromagnetic fields (LF-EMF):

- Stimulates biological activity at the cellular level
- Improves microbial metabolism and biochemical reactions
- Seamless integration into existing systems
- **Requires no major infrastructure modifications**

What we offer

✓ Custom EMF system design

We manufacture generators tailored to your specific production process.

✓ Integration and monitoring

We install sensors and integrate them with your existing monitoring systems.

✓ Performance monitoring

Monthly reporting with clear key performance indicators (KPIs) and measurable results.

✓ Risk-free pilot programme

We refund your CZK 40 000 deposit if the results do not meet expectations.

Why choose us

- A low-cost upgrade solution
- Rapid implementation
- Scalable across sectors
- Proven measurable impact
- High return on investment (typically 1–3 years in biogas applications)

Contact

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