



BIOGAS & BIOMETHANE SOLUTIONS FOR DIGESTERS

Koch Engineered Solutions, LLC can deliver proprietary equipment, engineering, procurement and construction for a broad range of biogas and biomethane applications.



Soil Net
Polymer Solutions



Equipment & Process

▶ John Zink Hamworthy Combustion

Full package systems
Specialty biogas flare systems
Gas cooling & compression packages
Amine systems (CO₂/H₂S removal)
Glycol dehydration systems (H₂O removal)

▶ Koch Separation Solutions

BgPurTM hydrogen sulfide removal product

▶ Soil Net

Nutrient management



Installation & Construction

▶ Koch Specialty Plant Services

World-class installation and construction services
Project management, lump sum turnkey engineering, procurement and construction can deliver a complete solution



Commercialization

▶ Finance for Off-take Agreements

Through Koch Minerals & Trading (KM&T), a Koch affiliate company, we have the opportunity to finance and invest in projects

▶ Complete trade management of the carbon

Independent of financing, KM&T also offers additional trade management of the Carbon Credit and RINs for end user

▶ Koch Ag & Energy Solutions (KAES) market the bio-fertilizer

Partners of Choice

GLOBAL SCALE

Koch Engineered Solutions is an affiliate of Koch Industries who has \$100+ billion¹ in revenues, global presence, investment grade credit

¹ As estimated by Forbes

DECISIVE ACTION

Unrivaled ability to marshal resources to move decisively and with certainty when the right opportunities present themselves

PRIVATE

Koch Engineered Solutions' status as a private company and management philosophy allows partners to focus on capturing opportunity long-term

MUTUAL BENEFIT

True partnership mentality. Expectation that Koch Engineered Solutions will work to make partnerships as successful as possible

KOCH LABS

Experts: Engage Koch Engineered Solutions' internal subject matter experts to help better understand market and customer opportunities as well as solving technical challenges

Develop: Use Koch Engineered Solutions and Koch-affiliate facilities and businesses as a test-bed for product development and proof of concept, allowing for quicker time to market and product design cycles

Engage: Opportunity to engage Koch Engineered Solutions and Koch affiliates as a partner, customer, and a supplier

One Source Solution

for Key Gas Treatment & Purification Equipment and World-Class Installation

Equipment + Turnkey Installation + EPC Services = **RNG PLANT**

**JOHN ZINK
HAMWORTHY
COMBUSTION**

Specialty biogas flare systems • Gas cooling & compression packages • Amine systems (CO₂/H₂S removal)
Glycol dehydration systems (H₂O removal)

**KOCH SEPARATION
SOLUTIONS**

Gas-to-liquid contactors (H₂S and PM removal)

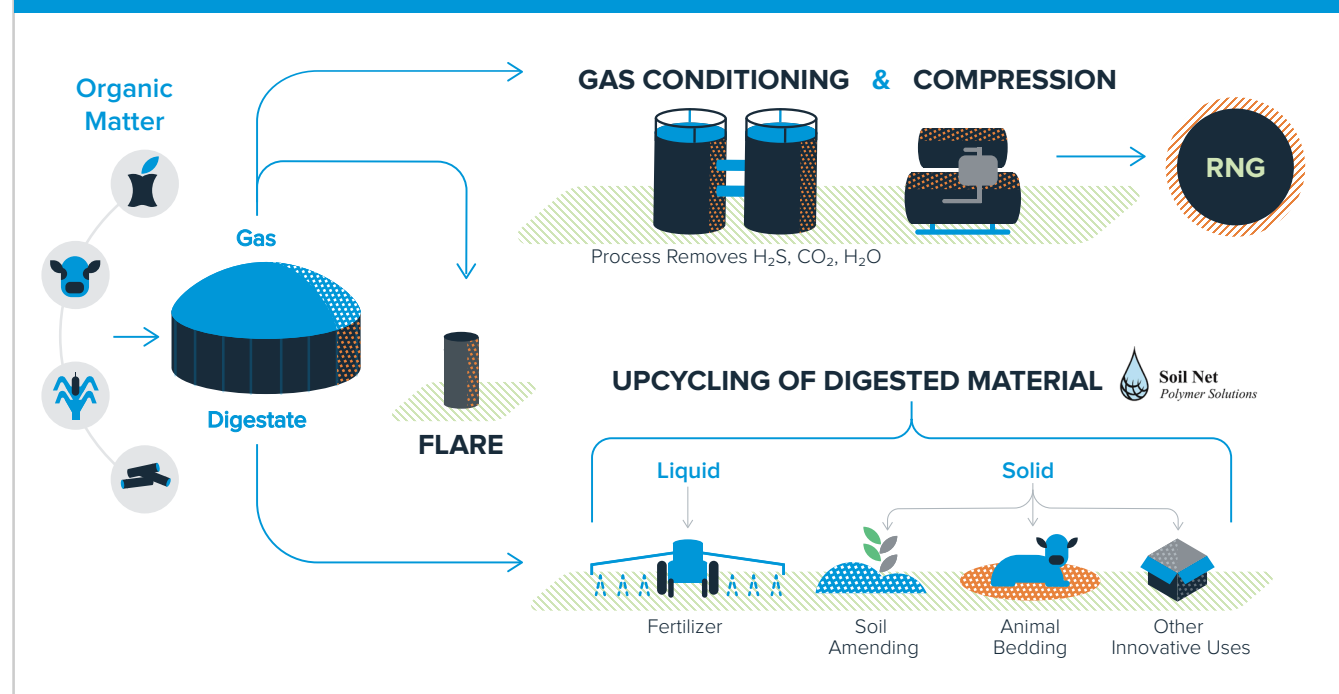
KOCH GLITSCH

Mass transfer • Mist elimination • Phase separation equipment

**KOCH SPECIALTY
PLANT SERVICES**

World-class installation and construction services • Unique product expertise from professionals

ANAEROBIC PRODUCTS, BIOGAS TREATMENT & END USES


**Identify Potential
RNG Source**

- Municipal solid waste
- Sewage
- Yard & crop wastes
- Food wastes
- Agriculture (manure)

**Waste Conversion
to Biogas**
Non-Pipeline Spec. Gas

- 55-65% CH₄
- 30-45% CO₂
- Impurities

**Conditioning &
Compression RNG**
Pipeline Spec. Gas

- RNG = 96-98% CH₄
- Designed for your pipeline quality specs

**Off-take &
Utilization of RNG**

- RNG is a drop-in replacement for traditional natural gas
- Management of off-take agreements
- Fertilizer off-take

Koch Engineered Solutions Focus

KM&T & KAES Focus