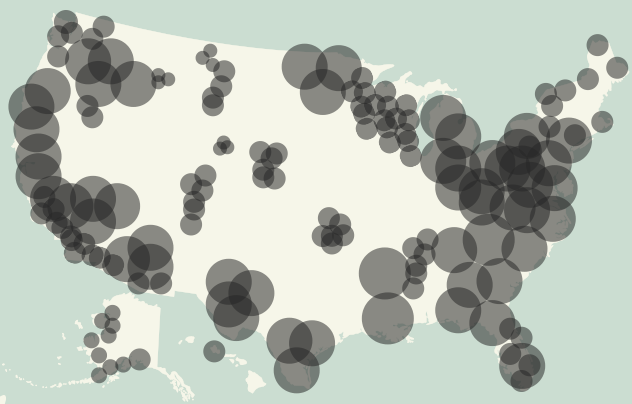
DIGESTERDOC.COM

OVERCOMING BIOGAS CHALLENGES

What are the primary challenges and problems associated with biogas plants and facilities, and what are effective solutions to overcome them?

1 U.S. AD Potential

According to the American Biogas Council, there are roughly **15,000 suitable potential AD sites across America**. So, how can we continue to facilitate sustainable growth and adoption in the U.S. RNG sector to make this potential a reality?



*Not an actual representation of potential AD sites.

> We no longer need to look at the successes of our European colleagues because **real growth, in the biogas industry, is taking shape here in the U.S**.

The future of biogas is without a doubt bright, so let's take a look at the primary challenges of the industry so we can work toward stimulating rapid momentum in U.S. RNG.

Addressing the Challenges

- Feedstock Availability
- Byproduct Management
- Process Stability
- High Initial Investment
- Technology Limitations

2 How Can We Overcome Key Challenges?

Diversifying Feedstock

Explore multiple sources, such as agricultural residues, food waste, sewage sludge, and energy crops, biogas plants can mitigate supply fluctuations and optimize biogas production.

Digestate Valorization

Implementing advanced treatment processes for digestate can turn it into high-quality biofertilizers. This closes the loop and adds value to the biogas production process.

Process Monitoring

Continuous monitoring and automation can enhance process stability and efficiency. Advanced sensors and control systems, enhance response time to variations in feedstock and optimizes biogas production.

Financial Support

To ensure a consistent supply of feedstock, biogas facilities can explore multiple sources, such as agricultural residues, food waste, sewage sludge, and energy crops. Biogas plants can mitigate supply fluctuations and optimize biogas production by diversifying feedstock.

Research & Development

Continuous monitoring and automation can enhance process stability and efficiency. By employing advanced sensors and control systems, operators can respond quickly to variations in feedstock and optimize biogas production.

3 The Data

The American Biogas Council recognizes nearly 15,000 potential sites ready for development in the U.S. today.

8,600

On Farm

4,000

Water Recovery

2,000

Food Waste

THESE SYSTEMS COULD PRODUCE

103 Trillion kWh/year

Let's work together to make this potential a reality!