



EESI
Environmental and
Energy Study Institute

Briefing Agenda

Powering Businesses, Homes and Vehicles with Waste:

How to Grow the Economy and Jobs with Biogas and Renewable Natural Gas

Tuesday, May 23, 2017 | 11:30 AM – 1 PM
Capitol Visitors Center | Senate 201-00

- **Welcome – Jessie Stolark, EESI**
 - **What is biogas? The current and potential biogas market – Bernie Sheff, American Biogas Council**
 - How Biogas is Made (Feedstocks & how systems work)
 - How Biogas is Used (including digestate)
 - Biogas Market Today & its Potential
 - **How is RNG different from biogas? The current and potential RNG market – Johannes Escudero, RNG Coalition**
 - What is RNG (& how it's different from biogas)
 - Current RNG Production (Feedstock / Utilization)
 - RNG Production Potential
- Related industries—rural, urban and suburban**
 - Agriculture
 - Food
 - Waste management
 - Water utilities
 - Energy (fuels and baseload power)
 - Shipping (Trucking & Fleets), and Municipal Buses/Fleets
 - Fertilizer & Compost
- **Value of biogas/RNG through real projects**

Short case studies from industry professionals highlighting some of the benefits of developing biogas and RNG systems.

 - **Grant Zimmerman, ampCNG**
 - [Fair Oaks Dairy, IN](#) (benefits: manure management, baseload onsite electricity, vehicle fuels and onsite fueling, renewable heat, soil and fertilizer products, watershed protection)
 - **Caroline Henry, quasar energy group**
 - [Central Ohio BioEnergy \(COBE\), Columbus, OH](#) (benefits: food scrap recycling, onsite baseload electricity, vehicle fuel, renewable heat, soil and fertilizer products, watershed protection)
 - **Luke Morrow, Morrow Renewables**
 - [Morrow Renewables Projects, Texas](#) (benefits: use of methane from landfills, pipeline injection, vehicle fuels, renewable heat)
 - **Brian Meek, Avant Energy**
 - [Hometown BioEnergy Le Seur, MN](#) (benefits: food scrap recycling, peak power, energy storage, renewable heat, soil products, watershed protection)

Key benefits from biogas and RNG systems:

- Waste management solution
 - Manure management
 - Use of methane from landfills (rather than flaring)
 - Commercial and urban food scrap recycling
- Energy generation and storage
 - Electricity: Onsite, baseload, peak power, small/utility scale
 - Gas: Vehicle fuel, natural gas pipeline injection, energy storage
 - Renewable heat
- Soil and fertilizer products
- Watershed protection
- Economic benefits (All)
 - Investment dollars
 - Creates jobs
 - Reduces costs to handle waste material

- **Existing Federal programs supporting biogas & RNG industries**
 - **Patrick Serfass, American Biogas Council**
 - RFS (RNG fulfills large majority of cellulosic biofuels production)
 - Farm Bill (energy title is critical):
 - Energy Title (IX): Rural Energy for America Program, Bioenergy Program for Advanced Biofuel, Biorefinery Assistance Program, Biomass Research and Development Initiative (BRDI).
 - Conservation Title (II): Natural Resources Conservation Service (NRCS), Environmental Quality Incentives Program (EQIP), Conservation Innovation Grants.
 - Research Title (VII): Agricultural Research Service and National Institute of Food and Agriculture
 - Tax policy
 - Agency efforts (appropriations):
 - EPA: AgSTAR, Landfill Methane Outreach Program, Combined Heat and Power Partnership, and Sustainable Materials Management Program
 - DOE: Bioenergy Technologies Office, Vehicle Technology Office, Fuel Cell Technologies Office
 - Cross Agency:
 - USDA/DOE Biomass Research & Development Technical Advisory Committee
 - EPA, USDA, USGS integrated nutrient management strategy

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