

Congressional Biomass Caucus Briefing: Biogas

Biogas Solutions for America's Dairy Industry



Homeland Biogas Energy

American Biogas Council

May 16, 2012

American Biogas Council: The Voice of the US Biogas Industry

- The **only** U.S. organization representing the biogas and anaerobic digestion industry.
- **140+ Organizations** from the U.S., Germany, Italy, Canada, Sweden, Belgium and the UK
- **All Industry Sectors Represented:**

- Landowners
- Fuel refiners
- Manufacturers
- Project developers
- Biogas users
- Plant owners
- Financiers
- EPC firms



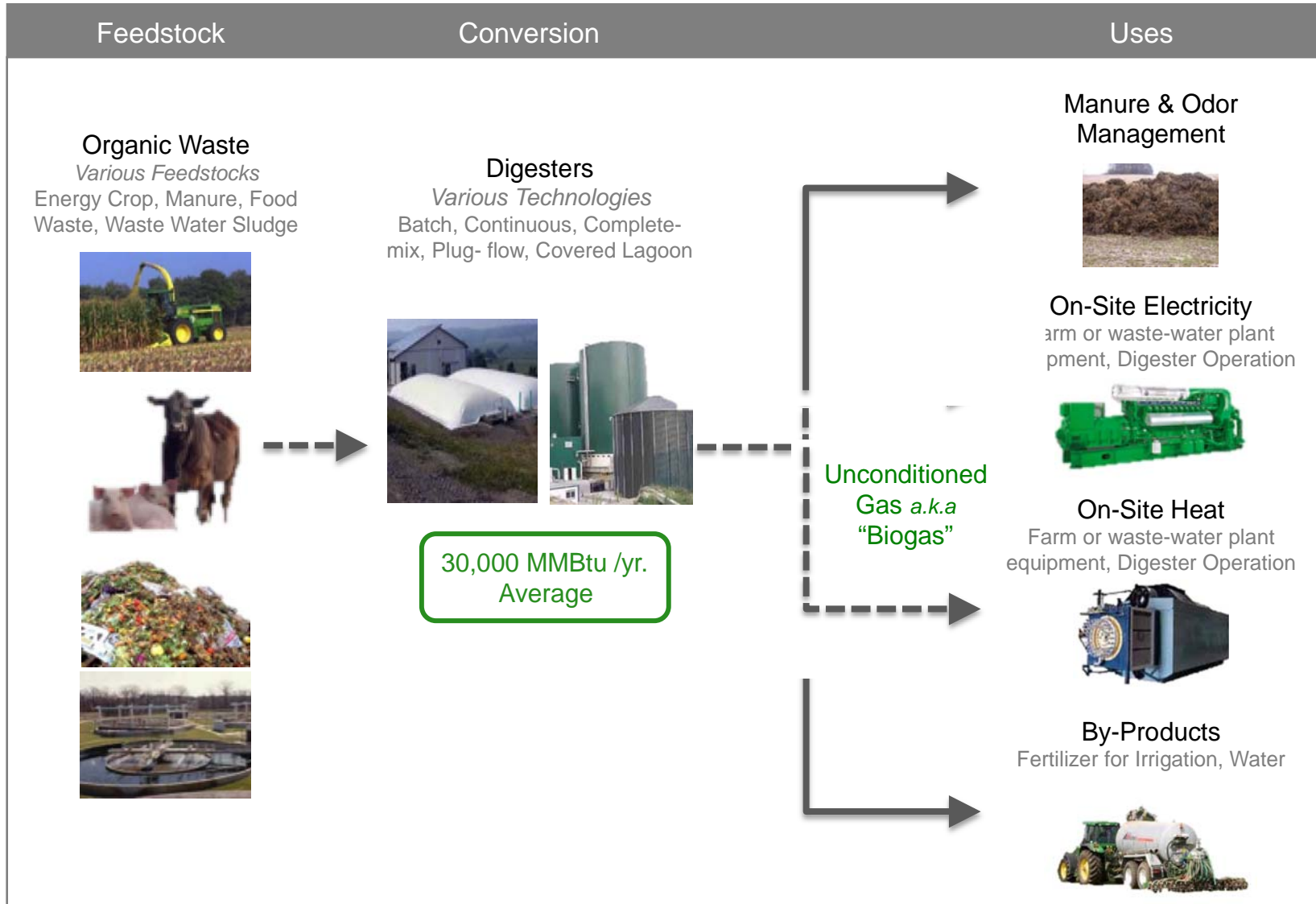
POLICY GOALS

- Reauthorization and mandatory funding of Farm Bill Energy Title
- Extending Section 45 Tax Credits for biogas from all sources, and extending ability to elect Section 48 Tax Credit
- Parity for Biogas in all federal policy, including dedicated Section 48 for biogas facilities, equal treatment in the Renewable Fuel Standard, the Clean Energy Standard, and recognition of all GHG reductions
- Policies that promote distributed generation

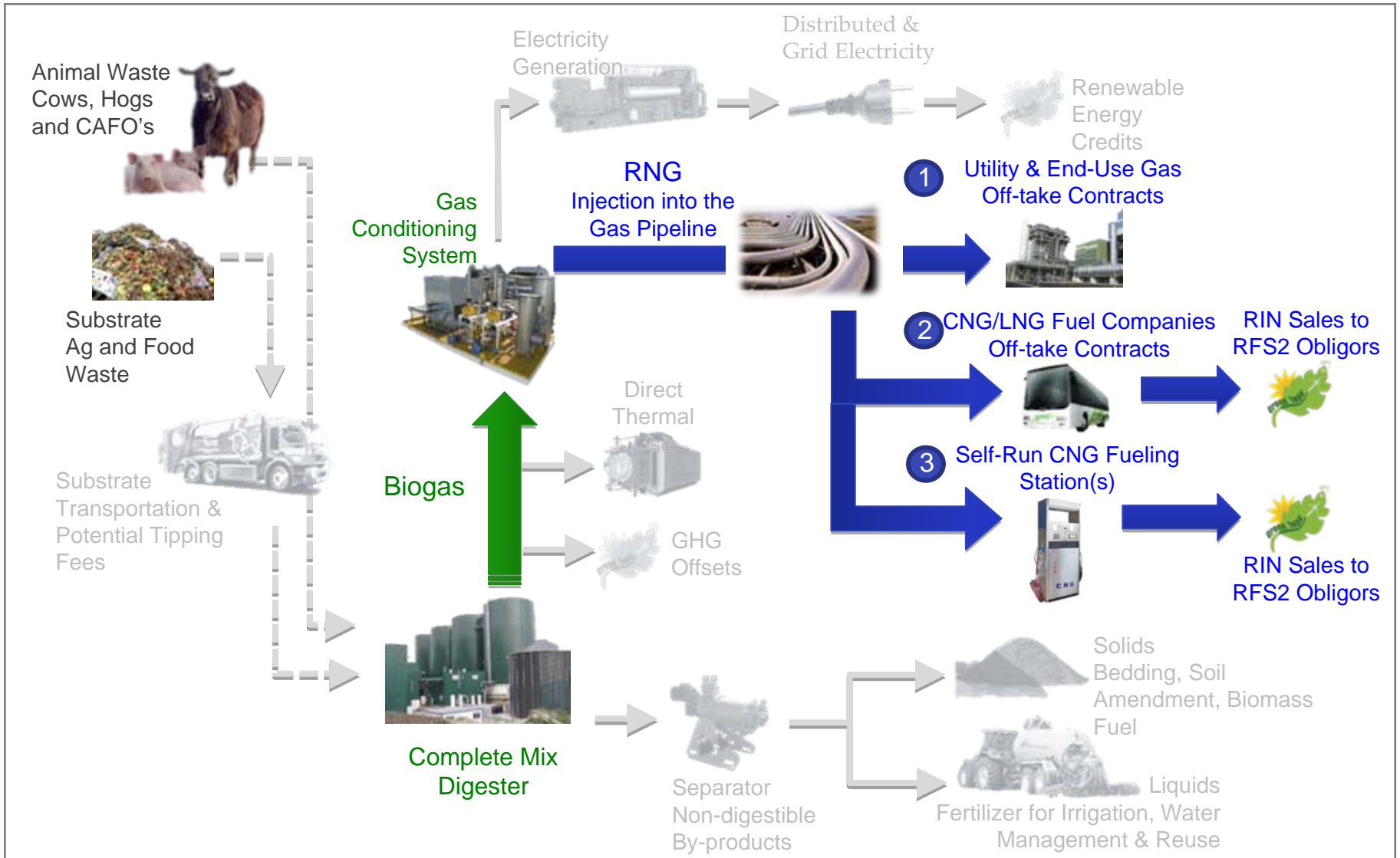
Anaerobic Digestion Defined

A naturally occurring biological process in which organic material is broken down by bacteria in a low-oxygen environment resulting in the generation of methane gas and carbon dioxide as its two primary products.

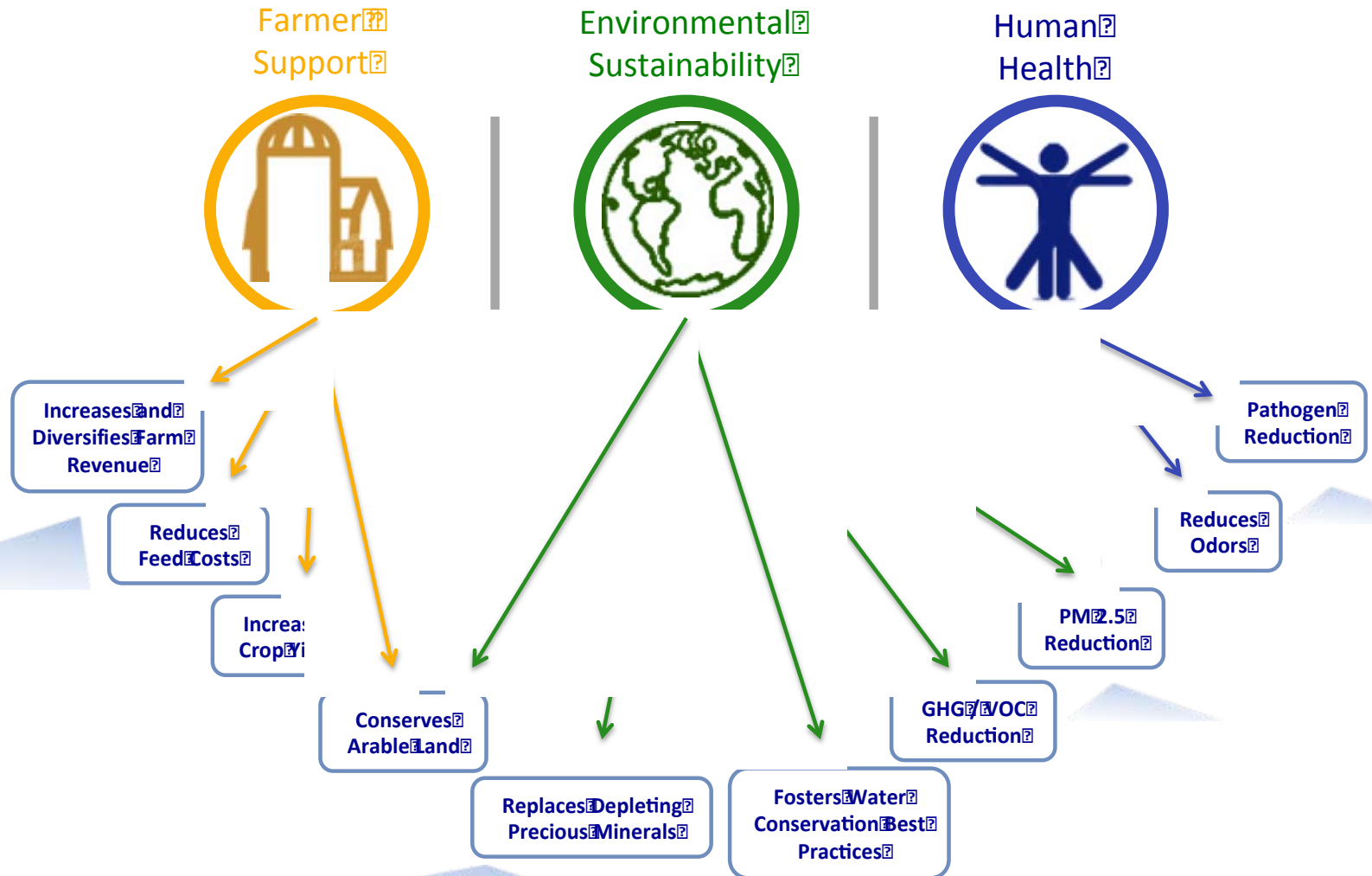
Anaerobic Digestion – On Site Energy Use



Anaerobic Digestion – Off Site Energy Use



Agricultural, Environmental And Social Benefits



Additional Benefits Detail

Farmer Support



Farmer Support

Increased and Diversified Revenue to Farmers

Provides cost-reduction and revenue diversification to farmers through sharing agreements

Reduces Feed Costs

Manure-based models do not rely on energy crops which divert supply and increase costs of animal feed

Increases Crop Yield

AD by-products used as fertilizer reduce weed seed and create higher ammonia-based fertilizer than manure spreading

Environmental Sustainability



Resource Preservation

Replaces Depleting Precious Minerals

AD by-products used as fertilizer replaces alternative precious minerals, particularly phosphorus, used in the production of chemical fertilizers
Conserves Arable Land

Use of Manure versus energy crops in bio-energy production saves precious land resources.

Water Conservation

Mitigates Water Pollution from Poor Manure Management Practices

Reduces groundwater pollution caused by poor management of animal waste and potential nutrient imbalances, currently the largest single water pollutant in the country.

Increases the use of recycled water

Current manure management processes typically lack systems for the beneficial reuse of water used in flushing.

Human Health



Emissions Reduction

VOC Reduction

AD reduces VOCs otherwise emitted by cows and manure by more completely transforming them into methane.

PM 2.5 Reduction

AD reduces ammonia in the atmosphere which a precursor to the production of particulate matter (PM_{2.5}) a quickly growing health concern

Human Health

Reduces Odors

Closed systems reduce the significant odors of animal waste

Pathogen Reduction

AD kills almost all pathogens that would otherwise threaten to enter into the groundwater and expose humans to significant health risks.

CONTACT INFORMATION

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