

Agriculture Update

United States

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Agriculture

- AgSTAR program promotes the use of anaerobic digestion systems at livestock operations.
- US EPA chairs a national workgroup that looks at the linkages between AD systems for livestock waste, organic materials, and municipal wastewater.
- Active involvement in international agriculture methane reduction initiatives

Methane Reduction, Recovery, and Use Initiatives in the US

- Currently have 191 AD systems for livestock wastes in operation
 - 10 of these started up in 2012
- Current interests:
 - Expanding the use of biogas as a replacement for vehicle fuel
 - Incorporating nutrient recovery technologies into AD systems
 - Streamlining permitting processes for AD systems
 - Innovative business models

Barriers/Challenges to Methane Reduction, Recovery, and Use

- Financial incentives available for AD system construction are decreasing.
- As codigestion becomes standard, concerns about effluent quality have increased.
- Byproduct markets are not well developed.

International Methane Reduction, Recovery, and Use Initiatives Supported by the US

- World Bank Collaboration
 - Nonpoint source pollution control (China)
 - CDM PoAs (Philippines, Mexico)
 - Considering work in Indonesia, Vietnam, & Thailand
- Tubular fabricated digester pilot (Philippines)
 - Technically sound
 - 50% cost reduction compared to fixed & stacked fixed concrete domes
 - Good for small to medium farms/facilities
 - Must consider land value if evaluating use at large scale operations

Tubular Pilot Installation

