



# Livestock Project Protocol v2.2

## Protocol Summary

### Project Definition

The installation of a Biogas Control System (BCS) that captures and destroys methane (CH<sub>4</sub>) gas from manure treatment and/or storage facilities on livestock operations.

#### The protocol accepts a wide range of technologies, including:

- ⌘ Centralized digesters
- ⌘ Co-digestion of organic waste (greenhouse gas [GHG] benefits not quantified for non-manure waste streams)
- ⌘ Methane destruction on-site (enclosed flare, open flare, electricity generation, thermal energy production)
- ⌘ Methane destruction off-site (direct use via pipeline)
- ⌘ Methane destroyed as fuel for vehicles (on-site or off-site)
- ⌘ Biogas destruction in fuel cells

### Project Eligibility Requirements

**Location:** Project must be within the U.S. or its territories or on U.S. tribal lands.

**Start Date:** Any project submitted within six months of becoming operational.

**Performance Standard:** Installation of one of the technologies accepted in the protocol.

**Legal Requirement Test:** Project exceeds any reductions that would have occurred as a result of compliance with federal, state or local regulations. Project developer must sign the Attestation of Voluntary Implementation once at the project's first verification.

**Regulatory Compliance:** Project must be in compliance with all federal, state and local laws or regulations. Project developer must sign the Attestation of Regulatory Compliance for each reporting period.

#### Baseline:

- ⌘ Baseline represents "business as usual" or what would have occurred without the BCS installation
  - ⌘ Assumes continuation of current practices
- ⌘ Calculated monthly for each year of the project
- ⌘ For new livestock operations (greenfield sites), baseline is based on prevailing system type for their region, animal type and farm size

**Crediting Period:** Project is eligible to receive credits for 10 years from start date.

**Reporting Schedule:** Annual accounting with a minimum one verification per year.

### Key Requirements

- ⌘ Project must meet strict additionality requirements, must represent better than business as usual
- ⌘ Clear ownership of the GHG emissions reductions
- ⌘ Project must not be registered with any other GHG registry for the same vintages of reductions
- ⌘ Compliance with air and water quality laws
- ⌘ Proper accounting and monitoring
- ⌘ Calculations and data inputs are free of material misstatement

### Project Exclusions

- ⌘ Any GHG reductions from other activities and changes in operations not associated with installation of a BCS
- ⌘ Any greenfield sites in geographic locations where anaerobic lagoons are not common practice
- ⌘ N<sub>2</sub>O sources within the physical boundary
- ⌘ Biogenic CO<sub>2</sub> associated with the BCS
- ⌘ Displacement of fossil fuel consumption associated with production of electric power for the grid or injection of gas to a pipeline