

## ***Greenhouse Gas Services***



### **Capabilities**

Regulatory responses to global climate change are beginning to focus on achieving emission reductions through incentives and regulation. Companies that generate or use large amounts of energy, or generate greenhouse gases (GHG) will likely be the most impacted by this new regulatory focus. MSE can assist your company in developing and implementing a sound strategy for GHG emission management and in maintaining compliance with new GHG regulations. MSE can also support development of emission reduction projects and support submittal of these projects for approval to carbon credit registration and trading entities. Building on our historical strength in air quality analysis and environmental management, MSE offers the following services:

- Calculating GHG Emission Reductions
- Emission Inventory
- Carbon Credit Trading Assistance
- GHG Baseline Surveys
- Regulatory Compliance
- Source Permitting

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## Key Projects

### Greenhouse Gas Reductions Accounting, Big Sky Dairy, Idaho

- Provided technical support for the first U.S. project to apply for project certification from the Gold Standard for an agricultural project.
- Performed baseline and project emission calculations utilizing the CDM/UNFCCC project protocols for greenhouse gas emission reductions from manure management systems.
- As part of the application prepared for the project, MSE prepared the monitoring plan and technical approach summary.

### Landfill Gas Recovery Renewable Energy Credits, Nebraska

- Provided pre-verification auditing for renewable energy credit (REC) project application to Chicago Climate Exchange.
- Performed site visit to observe facilities and operations, review procedures, and meet with operators.
- Following the site visit, calculations were prepared to estimate potential REC and a complete list of identified deficiencies and recommendations were provided to support preparation for verification.

### Greenhouse Gas Reductions Accounting, Three Mile Farms, Oregon

- As part of a project team to develop an innovative low-cost digester, MSE calculated emissions associated with baseline operations at a facility and the emissions reduction associated with the use of the new digester.
- Emission calculations were completed following the Climate Action Reserve Project Reporting Protocol.

### Greenhouse Gas Emission Management Services, Confidential Transportation Client, Southeastern US

- Completed the strategy, policy development, baseline assessment, environmental information system development, and development of the customer GHG portfolio management service.
- Assisted major transportation company with integration of GHG reduction into a system-wide EMIS.
- Prepared data collection and analysis strategy presentation, GHG policy input, management briefing, baseline assessment report, EMIS rollout to the regions and sites, a GHG reduction improvement plan, and a GHG portfolio management offering.

### Greenhouse Gas Technical Support Services – Granja Becker GHG Mitigation Project, Brazil

- As part of a project team MSE provided technical support in the preparation of baseline, monitoring and verification plans and project design documents for a GHG mitigation project associated with improved animal waste management systems in confined animal feeding operations in Brazil.
- The project was one of the initial clean development mechanism (CDM) projects under the UN Framework Convention on Climate Change (UNFCCC).
- Certified emission reduction (CER) credits as specified in the Kyoto Protocol were issued for the project.



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