

# Climate Change/Greenhouse Gas Emissions Reduction

## A Shaw Sustainability Solution



Reports prepared by the Intergovernmental Program on Climate Change have confirmed global warming and identified such factors as power plant emissions, energy consumption, and increased populations as contributing to the climate change issue. The findings are shaping political decisions, investor decisions, citizen reactions, government regulations, and activities across the globe and have brought increasing attention to carbon emissions and strategies to reduce emissions of CO<sub>2</sub> and other greenhouse gasses.

Greenhouse gas (GHG) emissions reduction trading is underway in Europe and is being considered in the United States by many public and private leaders as a practical way to reduce, and eventually reverse, the potential impacts of global warming. International programs currently use emission trading as a mechanism to reduce the compliance costs of GHG emission reductions.

Corporate and institutional managers are being presented with some unique problems and opportunities as a result of both a general concern over global warming and some countries' specific need to reduce greenhouse gas emissions to comply with the International Global Warming treaty (Kyoto Treaty).

### Shaw's Approach

Shaw's approach to global warming activities builds on a foundation of sustainability solutions. From the establishment of the initial baseline of emissions and carbon footprint to the strategy for further actions, Shaw's experts work with you to prepare your facilities for the future.

Shaw has participated in GHG projects around the world and is familiar with the Kyoto Protocol, The Clean Development Mechanism, and other GHG related programs. We assist clients with developing programs in the many states endeavoring to institute GHG programs prior to the federal government passing laws to that effect.

Shaw experts assist clients with specific domestic and international GHG activities and transactions. We have verified GHG reductions at solid waste landfills and helped landfill operators file carbon dioxide equivalents (or "CO<sub>2</sub>e" – a term used to measure global warming potential of the gasses involved) information. We have assisted with development of CO<sub>2</sub>e measurement technique reports.

We help our clients position themselves to take advantage of developing United States GHG trading rules that may allow some clients to sell emission credits earned for reducing the emissions of GHGs.

### Shaw Services

Shaw is helping our clients in the United States and internationally identify and correct greenhouse gas emissions to improve their business sustainability positions. We also work to help clients prepare themselves to act on opportunities that may arise as domestic and international trading systems develop. Our services focus on simple strategies for documenting steps operators may already be taking as part of their day to day operations. Shaw services include:

- Analysis: review of current situation; review of credit issues
- Quantification/Inventory: recordkeeping procedures
- Verification: credit verification support

- Reduction: identification and quantification of greenhouse gas mitigation projects
- Performance reporting: creation of credit report; packaging credits for marketing; facilitation of credit sales

### Emission Reduction Credits

The installation of emission reduction systems may generate emission reduction credits. Credits may be purchased by operators of other facilities without cost-effective control options, who would use the credits to meet their own reduction goals. Large fossil fuel users are likely to be major purchasers of emissions reduction credits. Many countries are already utilizing credits for compliance programs. Some states in the United States are also developing programs and plans to begin the reduction of GHG before the federal government acts.



### The Full Picture

Shaw offers other sustainable solutions to help businesses answer the need to be good neighbors and responsible stewards while conserving their resources and growing their bottom lines. Our program is a flexible, multi-phased approach, tailored to meet the individual needs of our clients.

### Shaw Sustainability Solutions—The Full Picture

#### Sustainable Program Development

- Sustainability assessments
- Program design and implementation
- Environmental Management Systems/ Sustainability Management Systems

#### Waste Management

- Source reduction/pollution prevention
- Recycling and reuse
- Material life cycle analysis
- Waste audits

#### Clean Energy

- Energy efficiency
- Renewable energy
- Alternative fuels
- Fleet efficiency

#### Design and Development

- Green building design/LEED
- Green communities
- Green infrastructure/low impact development
- Sustainable redevelopment

#### Climate Change/ Green House Gas Emission Reduction

- Analysis
- Quantification/inventory
- Verification
- Reduction
- Performance reporting

#### Environmental Markets

- Carbon trading
- Nutrient trading
- Wetlands banking
- Ecosystem mitigation banking

#### Natural Resource Management

- Restoration
- Ecological land reuse
- Sustainable redevelopment

### Contact

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