



**AT YOUR SERVICE**

We would be pleased to assist you with any of your Carbon Management Services needs.

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**Global Reach. Local Expertise.**

ENVIRON provides state-of-the-art strategic risk management and technical consulting services addressing a broad range of human health and environmental risk issues related to the presence of chemicals in the environment; in foods, drugs, medical devices, and consumer products; and in the workplace; as well as business issues related to the development and use of energy and environmental technologies. Practicing from a global network of offices in the Americas, Europe, Asia, and Australia, our professional staff represents a wide variety of engineering, scientific, public health, and regulatory affairs disciplines. Clients around the world benefit from our blend of universally high technical skills and knowledge of local requirements and practices.



**CARBON MANAGEMENT ADVISORY SERVICES**

**Strategic Support**

ENVIRON's Carbon Management Advisory Services comprises a multifaceted global network of individuals able to provide environmental, engineering, financial, regulatory, and policy insights to help organizations manage their greenhouse gas (GHG) emissions agenda. Our range of services includes the following:

- Development of emissions inventories to help understand the commercial implications of a company's GHG profile
- Accredited GHG emissions baseline and annual GHG emissions verification
- A systematic planning process to evaluate the strategic importance of GHG issues and develop an informed basis for corporate decision making
- Advice on renewable energy and carbon sequestration projects and implementation of GHG emissions control technology for the energy industry
- Energy audits and assistance in energy use monitoring and targeting, including supplier management, employee training, and transport plans

**Energy Technology**

ENVIRON advises companies in the energy sector on both development of renewable energy projects and selection and implementation of GHG emissions control technology to reduce and abate GHG emissions. Specific areas of energy technology expertise include:

- Combustion Technology
- Natural Gas Utilization
- Advanced Energy Conversion



*ENVIRON has a long history of helping clients to incorporate environmental issues into their core business strategies.*



**Energy Efficiency**

*Commercial:* ENVIRON advises commercial, retail, and industrial clients on energy efficiency strategies in their facilities and conducts energy audits for energy efficiency improvements for all types of buildings—covering HVAC, lighting systems, refurbishment design, and renewable energy strategies. ENVIRON serves as a technical manager for the UK government program to bring about market transformation by promoting building refurbishment techniques for low-carbon buildings.

*Industrial:* At industrial facilities, our services include developing and demonstrating technologies that increase fuel efficiency, maximize heat recovery opportunities, and reduce GHG emissions, as well as conducting energy audits and plant efficiency improvement assessments. ENVIRON has conducted in-depth energy audits at several large-scale mining and manufacturing operations within Australia.

**EMISSIONS REDUCTION PROJECT DEVELOPMENT**

**Market Drivers**

The market mechanisms of the Kyoto Protocol have created significant opportunities for the development of projects that result in GHG emissions reductions or carbon credits. Similarly, other schemes worldwide create opportunities to develop projects that result in offsets to emissions reductions targets, e.g., the Canadian Domestic Offset Program and various

voluntary programs. As a global project developer, ENVIRON is actively involved in these programs, in particular the Clean Development Mechanism (CDM), helping clients to secure certified emissions reductions.

**Emissions Reduction Projects**

ENVIRON's projects typically focus on the following:

*Renewable Energy and Energy Efficiency:* Our personnel have extensive experience in developing renewable energy projects using our energy technology expertise to effect improvements in energy efficiency through use of alternative fuels or more efficient combustion systems that result in reductions in GHG emissions.

*Carbon Sequestration:* ENVIRON supports its clients on carbon sequestration projects, including land-use related projects, in particular from sustainable forestry and the use of storage in underground geological formations.

*Methane Capture from Landfills:* We have experience in implementing technology to characterize, recover, and control methane from solid waste landfills. These projects involve converting methane to carbon dioxide by flaring or by use as a fuel in engines and generators to produce electricity. We have demonstrated experience in the design and implementation of efficient active methane extraction systems, emissions control devices, thermal destruction systems, and energy recovery technologies.



*Methane Capture from Anaerobic*

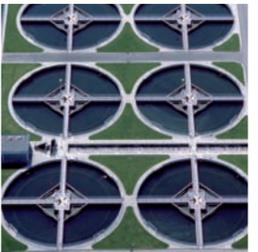
*Wastewater Treatment:* ENVIRON

professionals are international leaders in industrial wastewater management, having completed numerous wastewater projects in 25 countries from conceptual and process design of wastewater treatment facilities to detailed design, start-up, and operation. We have particular expertise implementing wastewater treatment technologies, including anaerobic reactors to treat high-strength wastewaters from food, beverage, agricultural, and petrochemical sources. These processes typically result in the generation of methane, which can be captured and utilized for process heating or energy generation.

**Project-Related Services**

Drawing on our in-house technical consulting skills in the landfill engineering, wastewater treatment, and energy technology areas, along with partnerships with specialized technology providers, ENVIRON offers a comprehensive set of project development services, including:

- Initial project feasibility assessment, including evaluation of compliance with additionality and other project eligibility criteria
- Preparation of project design documents (PDDs) and securing of the necessary approvals from the host country government and the CDM Executive Board
- Procuring of the validators and verifiers required as part of project approval
- Input to the engineering design of the emissions reduction system, and its implementation
- Assistance in identifying buyers for the carbon credits and negotiating their sale
- Overall project management



*Methane generated in anaerobic reactions can be captured and utilized for process heating or energy generation.*