

BMI Environmental Consultancy Limited



Company Background

Nowadays, concerns over business activities and their impact on the environment keep rising due to a number of reasons, such as climate changes, shortage of resources, stricter laws and regulations and the proliferation of various environmental protection groups and organizations. Companies also realize seeking environmental consulting services and reducing environmental footprint, allow them to be more eco-friendly and environmentally-friendly as compared to others.

Having been inquired by the business community about environmental matters and being on a mission to make the world a better habitat for all living species as well as for future generations, we fully understand the fundamental impact of environmental issues on business performance and company valuation. BMI Environmental Consultancy Limited (BMIEC) has been established to cater to the elevating demand for environmental consulting services in various aspects including, but not limited to, the following:

- Environmental Audit
- Environmental Impact Assessment

- Environmental Risk Assessment
- Carbon Audit
- Energy Audit
- Contaminated Site Assessment and Remediation
- Waste Management
- Commercial Recycling
- Corporate Sustainability

Scope of Services

As an international consultancy firm working across disciplines and geographic regions, BMIEC brings the global and multidisciplinary expertise and experience to solve client's environmental, sustainability, carbon and energy related issues.

We strive our best to provide clients with professional and responsive services in order to resolve their existing challenges, and mitigate risks, reduce costs and improve operational efficiencies, explore new commercial opportunities and reduce liabilities.

1 Environmental Audit

Environmental audit is a systematic, objective, recursive and even forward-looking process. In short, there are two different types of environmental audits: compliance audit and management system audit.

Environmental Compliance Audit

Conducting an environmental audit to review one's legal compliance status is no longer an option but a proper precaution and proactive measure. Our professional services include:

- Providing a throughout snapshot of the entity current condition
- Determining the applicable compliance requirements against which the entity's operations will be assessed using our well-developed audit methodology
- Exploring improvement opportunities
- Providing the necessary tools and training to the management and staff for continued compliance

Environmental Management System Audit

An environmental management system (EMS) is a system to help an organization of any size or type to improve its environmental performance in a credible and verifiable way. Setting up an EMS is often voluntary and informal, however, by complying strictly with an internationally accredited EMS scheme such as ISO14001, ISO19011, EMAS, the Carbon Trust Standard, etc., an organization can benefit in many ways, such as:

- i) Enhancing operational and managerial efficiencies and achieving costs reduction
- ii) Reducing potential risks and liabilities on legal compliance
- iii) Maintaining and improving credibility with the public and attracting investment

We provide a wide range of services related to EMS, including:

- Analysis of the gap between the requirements of a selected EMS and the status of the organization
- Development of environmental policies and procedures
- Audit of the EMS program
- Assistance with registrar selection

2 Environmental Impact Assessment

According to the definition of the International Association for Impact Assessment, an environmental impact assessment (EIA) is defined as "the process of identifying, predicting, evaluating and mitigating the biophysical, social, and other relevant effects of development proposals prior to major decisions being taken and commitments made." EIA has been made legislation in various countries and regions around the world, such as:

Country/Region	Legislation
Australia	The Environment Protection and Biodiversity Conservation Act 1999
China	The Environmental Impact Assessment Law
European Union	European Union Directive on Environmental Impact Assessments (a.k.a. EIA Directive)
Hong Kong	The Environmental Impact Assessment Ordinance 1997
Malaysia	Environmental Quality Act, 1974
United States	National Environmental Policy Act

Table 1 : International EIA Legislation

Our multi-disciplinary consultants have profound knowledge and understanding of the local and global economy, society and environment issues and regulatory frameworks of different jurisdictions. Beginning from the construction stage, through the operation stage to the decommissioning stage of a project, our services include:

- Providing consultancy services
- Facilitating communication with and between regulatory authorities and stakeholders
- Assisting the application of environmental approvals and permits
- Developing and implementing environmental management plans and systems

3 Environmental Risk Assessment

An environment risk assessment (ERA) is either a standalone procedure or as an extension to an EIA. It is also known as Probabilistic Risk Assessment and Probabilistic Quantitative Risk Assessment and is often undertaken when uncertainties of environmental impact are large and prudent decisions are crucial.

ERA can make an EIA a more holistic assessment by integrating the environmental, social and economic aspects through quantifying the frequency and severity of the environmental impact caused by any activities or planned interventions. It allows the management to compare risks in monetary terms, allocate limited budgets and prioritize issues.

Our ERA services include:

- Contaminated Site Solutions
- Waste Management
- Environmental Liability Assessments
- Planning Assessments
- Environmental Due Diligence

4 Carbon Audit

Carbon audit, a.k.a. carbon footprint assessment, refers to the regular quantification, including measurement and recording, of the amount of carbon dioxide or its Greenhouse Gases (GHGs) equivalent which are directly and indirectly emitted by an organization over the full life cycle of a product or service. For companies, typical usages and benefits of carrying out a carbon audit include:

- i) Laying a cornerstone of developing a carbon strategy
- ii) Fulfilling social responsibility and enhancing the brand value by reducing carbon footprint
- iii) Fulfilling local and international requirements on low-carbon products
- iv) Saving costs by getting an in-depth understanding of company operations and hence reducing the consumption of energy, such as fossil fuels
- v) Minimizing the taxes on emission of carbon

We perform carbon audit services following the principles and requirements in the ISO14064, ISO14065 and other internationally accepted GHG guidelines and protocol, such as:

- i) The Greenhouse Gas Protocol – jointly convened in 1998 by the World Business Council for Sustainable Development and the World Resources Institute
- ii) IPCC Guidelines – published by the Task Force on National Greenhouse Gas Inventories, etc.
- iii) The Carbon Trust Standard – created by the Carbon Trust

Furthermore, our consultants have extensive experience in providing the following services:

- Consultancy on carbon strategies
- Advising on disclosing and reporting carbon footprint
- GHGs inventory verification
- Carbon trading support on various market mechanism including Certified Emission Reduction (CER) and Emission Reduction Unit (ERU) specified in the Kyoto Protocol and the EU Emission Trading Scheme, etc.

5 Energy Audit

Energy Audit is an effective energy management tool. It is a regular inspection, survey and analysis of energy flows for energy conservation in a process, system or building, thus reducing the amount of energy input into the system without negatively affecting the outputs, i.e. to increase effectiveness of energy.

With an energy audit, companies not only reduce energy consumption, but also extend the service life of their equipment or system, thereby achieving cost effectiveness. From a macro perspective, less fossil fuels will be burnt by power supply companies and hence less pollutants and by-products will be generated and consequently sustainable development can be achieved up to certain extent.

Hence, Energy Audit =

Savings in Money + Environment Protection + Sustainable Development



Our services related to energy audit include:

- Benchmarking and examining the energy account of an energy system
- Checking how energy is used in its various components
- Prioritizing energy uses and identifying energy saving opportunities
- Providing recommendation of improvements

6 Contaminated Site Assessment and Remediation

A contaminated site is a site which is contaminated by hazardous waste or pollution and may pose a negative impact on human health or the environment. Mines, factories, fuel depots, orchards and timber processing plants are some examples.

An assessment on a contaminated site helps determining the level and extent of contamination and the possible remediation options for the particular site. The goal of such assessment is to remove pollution or contaminants from environmental media such as soil, groundwater or sediment, etc., for the protection of human health as well as site redevelopment.

Our services cover the following areas:

- Preliminary and detailed site investigation and monitoring
- Health and environmental assessment
- Remediation strategies and engineering tools
- Implementation and validation of remediation plans

7 Waste Management

Waste management refers to the collection, transport, processing or disposal, managing and monitoring process of waste materials. The aim of waste management is to reduce the costs on the aforementioned processes and to minimize the quantities and environmental impacts of waste, either in the form of solid, liquid, gaseous or radioactive substances, using different methods.

Our waste management services include:

- Waste collection, handling and transport
- Waste auditing and waste contractor audit
- Landfill design, including gas and leachate control
- Odour minimisation
- Rehabilitation and site redevelopment plans
- Recycling and reduction programs
- Energy and resource recovery programs

8 Commercial Recycling

Recycling is one of the most effective way to achieve sustainability by reducing the amount of trash going directly into the waste stream. Companies will be able to save money on facilities and other resources by better managing their waste disposal and therefore operate more efficiently through a well-planned and practical program.

In some countries, recycling of certain kinds of waste is compulsory and regulated for commercial establishments such as office buildings, bars and restaurants, service companies for items typically including paper, paperboard, corrugated cardboard, metal containers, glass containers and plastic containers, etc.

By recycling, you will be able to make the most of your waste. Our services include:

- Developing a detailed and practical recycling program
- Suggesting ways to reduce waste from the beginning
- Identifying resale or reuse opportunities for recycled materials
- Looking for markets for recyclables

9 Corporate Sustainability

The term "sustainability" on the environmental aspects still has not been a universally accepted definition notwithstanding that it is often considered to be an oxymoron of development. A commonly accepted concept of "sustainability" or "sustainable development" is that it requires the reconciliation / balance of or interaction between the economy, society and environment.



Scheme of Sustainable Development proposed by Johann Dréo.

Corporate sustainability is a must for being successful in today's business environment and gaining social acceptance, it is the business approach and practice to create a long-term "green" and ethical strategy to pursuit sustainability in a corporate level and it means much more than the term "corporate social responsibility" and "corporate citizenship".

Our services regarding corporate sustainability include:

- Reviewing and benchmarking on current sustainability performance
- Performing corporate responsibility audit including selecting the appropriate key performance indicators
- Developing and implementing corporate responsibility strategies and policies
- Assisting in working towards environmental management system
- Preparing corporate social responsibility report

Our Contact

At BMIEC, we are committed to protect the environment and ultimately achieve sustainability through our work for our clients and our own operations. We truly believe this important and urgent matter requires immediate action. We always welcome queries from the public or private sectors and try our best to contribute our expertise and experience to protect our mother planet.

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