



# INTEGRAL

ENVIRONMENTAL AND GIS SOLUTIONS



# INTEGRAL

INTEGRAL provides integrated services at the highest international standards for the following disciplines:

- Clean Development Mechanism (CDM) and Climate Change
- Environmental Engineering including environmental impact assessment, industrial audits, cleaner production, wastewater treatment, air pollution control, air quality modeling and solid waste management
- Energy including energy efficiency, energy conservation, and strategic energy planning
- Geographic information systems including integrated solutions, mapping and customized applications design



Since its inception, INTEGRAL has been engaged in consulting services for many donor-funded projects and other prestigious clients in Egypt.

The regional focus of the firm includes the Middle East and North Africa. INTEGRAL overseas projects, either by utilizing its own capabilities or in collaboration with international firms. INTEGRAL is the representative of MGM International in the Middle East and North Africa Region for CDM activities. INTEGRAL is also a business partner to Quality Standards Information Technology (QSIT), the largest Geographic Information Systems (GIS) service provider in Egypt and the Middle East.

# SCOPE OF SERVICES

INTEGRAL scope of services covers the following:

## Feasibility Studies

- Detailed feasibility studies for environmental projects
- Detailed feasibility studies for CDM projects
- Detailed feasibility studies for energy efficiency projects

## Engineering

- Project Design
- Technical specifications and bill of quantities
- Cost estimates



## Procurement Services

- Tender documents
- Evaluation of bids and contract negotiation
- Contract administration

## Planning

- Energy planning
- Environmental planning

## Training

- Air pollution
- Wastewater treatment
- Industrial auditing
- Solid Waste management
- Clean Development Mechanism (CDM)
- Geographic Information Systems (GIS)

# FIELDS OF ACTIVITIES

INTEGRAL offers its consulting and engineering services for the following major areas:

## CDM and Climate Change

- Clean Development Mechanism (CDM) including project design document preparation, management of validation process, asset monetization, and marketing of Certified Emission Reductions (CERs)
- Baseline Studies
- Monitoring Studies
- Engineering Solutions for Greenhouse Gases Reduction
- Preparation of Greenhouse Gases Inventories



## Energy

- Energy Efficiency Audits
- Energy Planning
- Cogeneration
- Fuel Switching
- High Efficiency Lighting
- Waste Heat Recovery



## Environment

- Environmental Impact Assessment
- Environmental Auditing
- Industrial Pollution Abatement
- Cleaner Production
- Assistance for ISO 14001 Certification
- Environmental Compliance
- Strategic Planning and Policy Development for Environmental Improvement
- Development of Emission Inventories
- Statistical Modeling of Emissions
- Air Quality Modeling
- Health Risk Assessment



## Geographic Information Systems

- Integrated Geographic Information Systems (GIS) Solutions
- Customized GIS Applications Development
- Maps Production



## FIRM CAPABILITIES

INTEGRAL builds on the extensive consulting experience of its founders in the fields of its activities. Dr. Amr Abdel-Aziz and Dr. Ismail Shaker are both graduates of one of the top engineering schools of the United States, North Carolina State University. In addition to their strong educational background, both founders have worked on multi-million dollars projects in the climate change, energy, environment and GIS fields. The firm is organized into 3 major departments each headed by a qualified engineer. In addition to its founders, department managers, and full time staff, INTEGRAL utilizes the experience of the top experts in the energy, environment, and climate change fields.

INTEGRAL staff has access to a well developed array of working tools to assist them in their tasks such as an intranet network of microcomputers equipped with the state-of-the-art specialized software packages. In addition, access to high speed DSL internet service, over 30 printers, 7 plotters, 6 fax machines, 3 scanners, and more than 15 copier machines is available.

## CLIENTS

We at INTEGRAL are committed to the achievement of our clients' goals and expectations. In doing so, we have succeeded in building a long term relationship based on client satisfaction and confidence in our performance. INTEGRAL has handled projects either as a main or a sub-contractor for many prestigious organizations, clients and donor funded programs which include: the United States Agency for International Development (USAID), Finnish International Development Agency (FINNIDA), and the Danish Agency for International Development (DANIDA), United Nations Environment Program (UNEP), United Nations Development Program (UNDP), United Nations Framework Convention on Climate Change (UNFCCC).



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