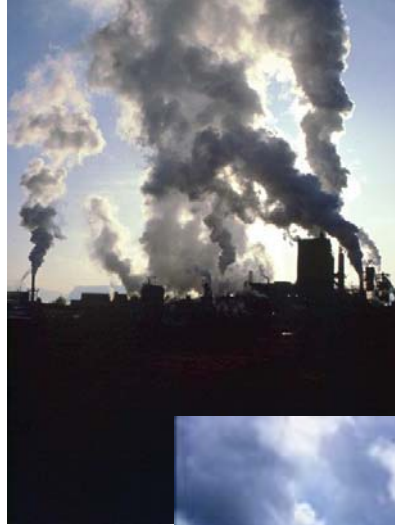




A Member of Shaker Group



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Table of Contents:

| | |
|----------------------------------------|----------|
| 1 INTEGRAL | 3 |
| 2 SCOPE OF SERVICES | 4 |
| 3 FIELDS OF ACTIVITIES | 5 |
| 4 CLIENTS | 6 |
| 5 FIRM CAPABILITIES | 7 |
| 5.1 Staff | 7 |
| 5.2 In-House Facilities | 7 |
| 5.3 Software Tools | 7 |
| 6 PROJECTS REFERENCE LIST | 8 |

1 INTEGRAL

INTEGRAL was established by Dr. Amr Osama Abdel-Aziz and Dr. Ismail Shaker in 2004. The firm provides integrated services at the highest international standards for the following disciplines:

- Energy including energy efficiency, energy conservation, and strategic energy planning
- Climate change greenhouse gases inventory preparation and Clean Development Mechanism (CDM)
- Environmental Engineering including environmental impact assessment, industrial audits, cleaner production, wastewater treatment, air pollution control engineering, air quality modeling and solid waste management

Since its inception, **INTEGRAL** has been engaged in consulting services for many donor-funded projects and other clients in Egypt. The regional focus of the firm includes North Africa and the Middle East where **INTEGRAL** continues to pursue opportunities in those regions. **INTEGRAL** overseas projects, either by utilizing its own capabilities or in collaboration with international firms such as MGM international.

2 SCOPE OF SERVICES

INTEGRAL scope of services covers the following:

Planning

- Energy planning
- Environmental planning

Feasibility Studies

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

Engineering

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

Procurement Services

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

Training

- Air pollution
- Industrial auditing
- CDM

3 FIELDS OF ACTIVITIES

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

CDM and Climate Change

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

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 for Environmental improvement
- Environmental Policy Development
- Development of Emission Inventories
- Statistical Modeling of Emissions
- Air Quality Modeling
- Health Risk Assessment

4 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 the following prestigious clients:

- Environment Sector Programme (ESP) funded by the Danish Agency for International Development (DANIDA)
- Nexant, Inc. through the Egyptian Environmental Policy Project funded by the United States Agency for International Development (USAID)
- TIMS Institute through the Capacity Development for the Clean Development Mechanism project (CD4CDM) funded by United Nations Environment Program (UNEP)
- United Nations Development Program (UNDP)
- Egyptian Pollution Abatement Project (EPAP) funded by the Finnish International Development Agency (FINNIDA)
- Climate Change Unit of the Egyptian Environmental Affairs Agency (EEAA)
- United Nations Framework Convention on Climate Change (UNFCCC)
- Cemex Egypt
- Suez Cement Company
- ItaliCementi
- Onyx Alexandria
- Misr Glass Manufacturing
- Abou Zaabal Fertilizers
- Industrial Development Works Company

5 FIRM CAPABILITIES

5.1 Staff

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 energy and environment fields. In addition to its founders and department managers, **INTEGRAL** utilizes the experience of the top experts in its field of activities. Currently, there are 6 full-time experts in the energy, environment, and climate change fields working with **INTEGRAL** in addition to part-time/free-lancer experts in diverse specialties.

5.2 In-House Facilities

Hosted in the headquarters of one of the largest consulting firms in the Middle East, **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.

5.3 Software Tools

- **Design Programs:** AutoCAD , Visio
- **GIS Programs:** ArcGIS (ArcView, ArcInfo, and ArcEditor), ArcIMs, ArcSDE
- **Air Quality Modeling Programs:** CAMx, ISCST3
- **Water Quality Modeling Programs:** Qual2E
- **Project Management:** Microsoft Project, Primavera
- **Electronic Data Management System:** EDMS
- **Lighting System Design:** Calculux, Siemens
- **Power System Analysis:** ETAP, EMTP, Duke / ABB, Echo-dial
- **Office Work:** Microsoft office XP

6 PROJECTS REFERENCE LIST

CLEAN DEVELOPMENT MECHANISM (CDM)



Project ONYX Alexandria Methane Capture and Flaring Project
Client UNEP Project: Capacity Development for the Clean Development Mechanism
Date August, 2004
Description Preparation of a CDM project design document (PDD) for ONYX Alexandria landfill



Project Glass Dying and Preparation Fuel Switching Project
Client UNEP Project: Capacity Development for the Clean Development Mechanism
Date July, 2004
Description Preparation of a CDM project design document (PDD) for Glass Dying plant and marketing the resulting emission reductions



Project Support to EGAS CDM Fuel Switching Activities
Client Nexant, Inc.
Date December, 2004
Description

- Preparation of 2 project design documents for CDM fuel switching projects through the Gas Conversion Program (GCP)
- Design of the CDM program associated with the GCP for bundling Fuel switching projects
- Assessment of the legal and institutional implications associated with the bundling process
- Coordinating with the local Designated National Authority (DNA) to obtain necessary approvals
- Marketing the certified emission reductions (CERs) associated with the Program to bilateral or multilateral buyers



Project Potential CDM Projects in Industry
Client Industry Unit (EEAA)
Date October, 2004
Description Identification and Evaluation of potential CDM projects in the following industrial sectors:
 o Fertilizers
 o Cement
 o Aluminum
 o Coke Manufacturing
 Project Idea Notes (PINs) are under preparation for 7 identified projects.



Project Pre-Feasibility Studies for CDM Projects
Client Environics
Date January, 2005
Description Pre-Feasibility studies to evaluate potential CDM projects for:
 o Agricultural residue use in production of composite wood
 o Central electricity generating facility at Red Sea governorate



Project Abou Zaabal Fertilizers Cogeneration Project
Client UNEP Project: Capacity Development for the Clean Development Mechanism
Date 2006
Description Preparation of a CDM project design document (PDD) for Abou Zaabal Fertilizers Cogeneration project and marketing the resulting emission reductions



Project Delta Fertilizers N₂O Abatement Project
Client UNEP Project: Capacity Development for the Clean Development Mechanism
Date 2006
Description Preparation of a CDM project design document (PDD) for Delta Fertilizers N₂O Abatement project and marketing the resulting emission reductions



Project Cemex Biomass Fuel Switching Project (Through MGM International)
Client Cemex Egypt
Date Ongoing
Description Preparation of a new methodology and project design document, and support during validation and registration of the project



Project Cemex Natural Gas Fuel Switching Project (Through MGM International)
Client Cemex Egypt
Date Ongoing
Description Preparation of a project design document, and support during validation and registration of the project



Project Samra Thermal Power Plant Jordan (Through MGM International)
Client Samra Electric Power Generating Co.
Date Ongoing
Description Preparation of required project design documents, support during validation and registration, and commercialization of CERs



Project Conversion of Rehab Power Station to Combined Cycle Firing Natural Gas Project, Jordan (Through MGM International)
Client The Central Electricity Generating Company (CEGCO), Jordan
Date Ongoing
Description Preparation of required project design documents, support during validation and registration, and commercialization of CERs



Project Samra Wastewater Treatment Plant
CDM Feasibility Study, Jordan
(Through MGM International)
Client Suez Environment - Degremont
Date December, 2007
Description Preparation of CDM feasibility study



Project Sharkeya Steel Rolling Co.
Client Sharkeya Steel Rolling Co.
Date Ongoing
Description Identification of CDM project portfolio, preparation of required project design documents, support during validation and registration, and commercialization of CERs.



Project IES composting plant expansion
(Through MGM International)
Client IES
Date Ongoing
Description CDM feasibility study, preparation of required project design documents, support during validation and registration, and commercialization of CERs



Project CRP Hydropower plants, China
(Through MGM International)
Client Sichuan China Resource Yazui River Yangang & Paomaping Hydro Power Development Company Limite
Date 2008
Description Preparation of required project design documents, support during validation and registration, and commercialization of CERs



Project ACB Cogeneration CDM Project (Through MGM International)
Client Alexandria Carbon Black (ACB)
Date 2008
Description Review of project design documents, support during validation and registration, and commercialization of CERs



Project Partial Fuel Switching from Fossil Fuels to Alternative Fuels in Kattameya and Helwan Cement Plants (Through MGM International)
Client Suez Cement Group - ItaliCementi
Date Ongoing
Description Preparation of project design documents, support during validation and registration



Project Flare Gas Recovery in NC-115 Gas-Oil Separation Plants (GOSP A) in Libya (Through MGM International)
Client REPSOL YPF
Date Ongoing
Description Preparation of project design documents, revision to methodology, support during validation and registration



Project Potential CDM Projects in TITAN Cement Group Subsidiary Companies at Egypt, Serbia, and FYROM (Through MGM International)
Client TITAN Cement
Date Ongoing
Description Evaluation of potential CDM projects, screening & selection, preparation of project design documents, support during validation and registration



Project MDG Achievement Fund Joint Programme on Climate Change Risk Management in Egypt.

Client UNIDO & EEAA

Date Ongoing

Description Mainstreaming GHG mitigation and CDM into national policy and expanding access to finance framework, and Enhanced capacity to adapt to climate change.



Program

The World Bank
CF ASSIST

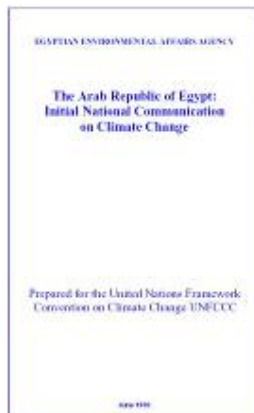
Project Preliminary Inventory of Potential Opportunities of Energy related CDM projects for Middle East North Africa (MENA) Countries and Recommendations to Release this Potential

Client World Bank

Date Ongoing

Description To give an overview of the current state and recent developments of the MENA CDM market; reveal the potential of energy related CDM projects in the MENA region serving the energy development ;to make a diagnosis of bottlenecks ; and to formulate recommendations to create the appropriate enabling environment.

CLIMATE CHANGE



Project Review of the first Egyptian National Communication

Client Climate Change Unit (EEAA)

Date March, 2006

Description Review of the first Egyptian national communication to the United Nations Framework Convention for Climate Change (UNFCCC) to identify gaps and potential improvements for the second national communication



Project Second National Communication for Egypt

Client United Nations Development Program (UNDP) through the Global Environment Facility (GEF)

Date November, 2008

Description Preparation of the waste sector inventory, mitigation, and national circumstances



Project Review of Egypt's Climate Change National Strategy

Client Egyptian Environmental Affairs Agency – Climate Change Unit

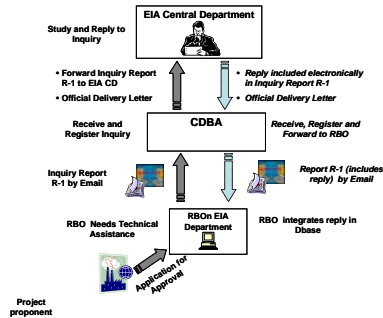
Date Ongoing

Description Prepare elaborated report on Egypt's climate change strategy for waste management sector and a reporting template in order to monitor the implementation measures of this strategy.

ENVIRONMENTAL POLICIES & STRATEGIES



Project The National Capacity Self-Assessment in Egypt
Client United Nations Development Program (UNDP)
Date December, 2007
Description Preparation of a capacity needs prioritization report, in-depth study report, and Egypt's national action plan for the fulfillment of Egypt's obligations under the 3 Rio conventions.



Project Guidelines for Decentralized Environmental Management
Client Environmental Sector Programme funded by DANIDA
Date December, 2005
Description Preparation of guidelines for decentralized management of the Environmental Impact Assessment and Environmental Inspection Departments at the Egyptian Environmental Affairs Agency

ENVIRONMENTAL IMPACT ASSESSMENT (EIA)



Project EIA for El-Hammam landfill
Client ONYX Alexandria
Date August, 2005
Description Preparation of Environmental Impact Assessment Study for El- Hammam landfill



Project Scoped EIA for Borg El Arab Gas Capture and Flaring CDM Project
Client ONYX Alexandria
Date August, 2005
Description Preparation of Scoped Environmental Impact Studies for the Methane Capture and Flaring CDM projects at Borg EL Arab landfill



Project Scoped EIA for El Hammam Gas Capture and Flaring CDM Project
Client ONYX Alexandria
Date August, 2005
Description Preparation of Scoped Environmental Impact Studies for the Methane Capture and Flaring CDM projects at El Hammam landfill



Project EIA for ONYX Composting Plant and Transfer Station
Client ONYX Alexandria
Date October, 2006
Description Preparation of Environmental Impact Assessment for a solid waste composting plant and a transfer station



Project Scoped EIA for Abou Qir Fertilizers CDM Project
Client Abou Qir Fertilizers
Date May 2006
Description Performed a scoped environmental impact assessment for the installation of a catalytic N2O destruction project in the tail gas of the nitric acid plant CDM project of Abu Qir Fertilizer Co.



Project Cemex Egypt Scoped Environmental Impact Assessment Study
Client Cemex Egypt
Date April, 2008
Description Preparation of an Environmental Impact Assessment study for Cemex Egypt biomass fuel use from dedicated plantation



Project Cemex Egypt Environmental Impact Assessment Study (new cement production line)
Client Cemex Egypt
Date Ongoing
Description Preparation of an Environmental Impact Assessment study for Cemex Egypt's new cement production line (including public hearing)



Project Cemex Egypt Environmental Impact Assessment Study (30 MW Captive Power Plant)
Client Cemex Egypt
Date Ongoing
Description Preparation of an Environmental Impact Assessment study for Cemex Egypt's power plant (including public hearing)



Project Environmental Impact Assessment Study for Suez Cement Co. New Lime Production Line
Client Suez Cement Company
Date May, 2007
Description Preparation of an Environmental Impact Assessment study for Suez Cement Co. New Lime Production Line (including public hearing)



Project Three Scoped Environmental Impact Assessments for Partial Fuel Switching CDM Projects in Kattameya, Suez, and Helwan Cement Plants
Client Suez Cement Group - ItaliCementi
Date Ongoing
Description Preparation of 3 Scoped Environmental Impact Assessment Studies for Partial Fuel Switching Projects from Fossil Fuels to Alternative Fuels (Agricultural Wastes, Municipal Sludge, Petroleum Mud, and RDF) in Kattameya, Suez, and Helwan Cement Plants



Project Environmental Impact Assessment study for Sawani Gaber Touristic Village in Sidi Abdel Rahman area, North Coast
Client Assets Real Estate Development
Date Ongoing
Description Preparation of Environmental Impact Assessment Study for Sawani Gaber Tourist Village in Sidi Abdel Rahman area (including public hearing)



| | |
|-------------|-----------------------------------------------------------------------------------------------------------------|
| Project | Scoped Environmental Impact Assessment study for leachate evaporation ponds in Borg Al-Arab and Hamam Landfills |
| Client | VEOLIA Environment |
| Date | Ongoing |
| Description | Preparation of Scoped Environmental Impact Assessment Study |

CLEANER PRODUCTION AND INDUSTRIAL PROFILES



Project Cleaner Production Assessment Study for Industrial Development Works Company

Client Environmental Sector Programme funded by DANIDA

Date March 2006

Description Preparation of an industrial assessment study to identify cleaner production opportunities at the plant



Project Cleaner Production Assessment Study for Abou Zaabal Fertilizers Plant

Client Environmental Sector Programme funded by DANIDA

Date March 2006

Description Preparation of an industrial assessment study to identify cleaner production opportunities at the plant



Project Cleaner Production Assessment Study for Sinai Rubber

Client Environmental Sector Programme funded by DANIDA

Date May 2006

Description Conducting a cleaner production assessment for the rubber factory.

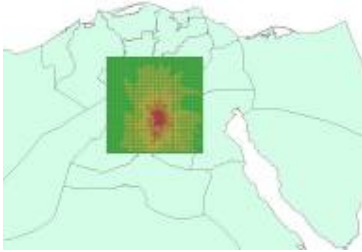


Project Industrial Audit for Misr Glass Manufacturing Company (MGM) Furnace (3)

Client Misr Glass Manufacturing Company (MGM)

Date August 2006

Description Assessment of the environmental benefits of the proposed redesign of furnace (3) to determine its eligibility for funding through EPAP2 project

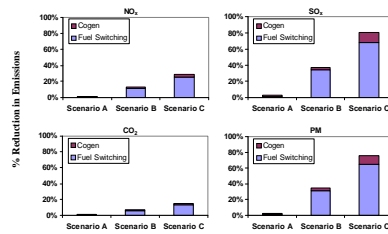


- Project** Air Quality Modelling of Southern Cairo Region
- Client** Egyptian Pollution Abatement Project, Funded by FINNIDA
- Date** December, 2003
- Description**
- Development of an emissions inventory for major industrial sources in Southern Cairo region
 - Air quality modeling of southern region of Greater Cairo using CAMx air quality model
 - Health risk assessment of the population subject to high PM concentrations in the modeled domain



- Project** South Sinai Industrial Profile
- Client** Environics
- Date** September, 2004
- Description** Preparation of the industrial profile for South Sinai governorate to identify major hotspots and major polluting industries

ENERGY

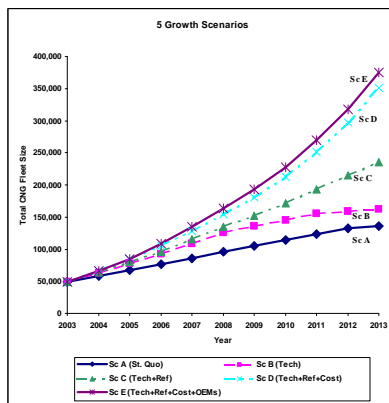


Project Strategic Plan for Expanding the Use of Natural Gas in the Commercial and Industrial Sectors

Client Nexant, Inc.

Date June, 2003

Description The strategic plan included the analysis of different options for implementing energy efficiency projects including fuel switching and cogeneration. Reductions in green house gases and pollutants of local impacts were estimated for different policy scenarios

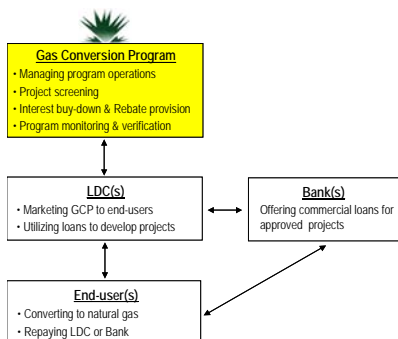


Project Master Plan for Expanding the Use of Compressed Natural Gas in Vehicles

Client Nexant, Inc.

Date January, 2004

Description The master plan included the analysis of different policy scenarios, proposing different policy measures and the development of a decision support tool for evaluating future scenarios. Reductions in greenhouse gases for different scenarios were estimated



Project Design of a Natural Gas Conversion Program

Client Nexant, Inc.

Date April, 2004

Description Design and implementation of a natural gas conversion program with the Egyptian Natural Gas Holding Company to promote conversion of industrial facilities to natural gas with the ultimate goal of reducing greenhouse gases