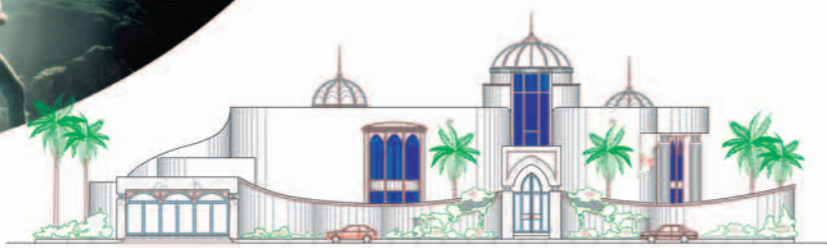




**2kado**

company profile





# SKADO PROFILE



SKADO is a professional consulting firm offering services in Engineering, Environmental, and Management Consultancy. It specialises in infrastructure planning engineering and economics and is experienced in all aspects of industrial facility design and construction such as municipal water and waste water facilities, desalination plants for sea and brackish water as well as surface water treatment and bulk materials handling and odour control.





### **SKADO'S Vision**

SKADO corporate view is to:

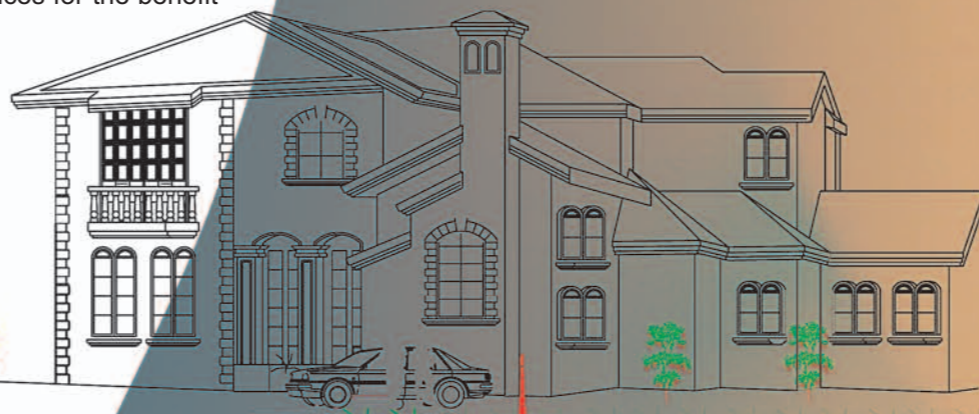
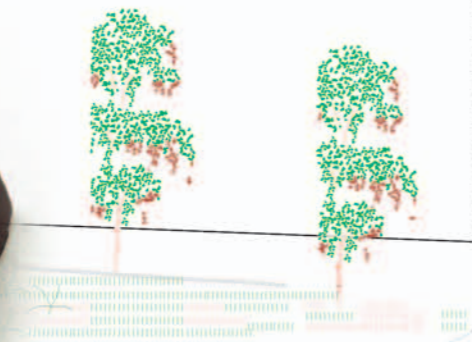
- Offer quality design and engineering specifications
- Provide a commitment for supporting our private and governmental clients
- Provide products and services to our clients satisfaction and approval using the Best Available Technology

As we expand our company we will be dedicated to operate efficiently, providing clients with design and engineering services which will show improved measurable results.

We are confident in our ability to continue contributing to the social and economic development of the region, especially in the 21<sup>st</sup> century.

### **SKADO values**

- SKADO recognize and appreciate that top quality engineers are its most important asset and therefore focuses its priority on recruiting, retaining and developing these engineers
- SKADO serves its clients in the most professional and responsible manner with the highest integrity
- SKADO's policy is to meet clients requirements needs and desires
- SKADO strives to make real contributions to the advancement of new design technologies in the desalination and industrial waste water treatment industries, as well as the advancement of infrastructure planning and engineering services for the benefit of its clients



VISION

VALUES





**SKADO is experienced in all aspects of design and construction management for the following facilities:**

- Desalination Plants
- Surface Water Treatment Plants
- Municipal Waste Water Treatment plants
- Refineries and Petrochemical Plants
- Packaged and Large Scale Sewage Treatment Plants
- Packaged & Large Desalination Plants
- Pipeline Facilities for Potable, Sewer, Irrigation Networks
- Pumping Stations
- Power / Electrical Generation Facilities
- Power / Electrical Network Facilities
- Docks and Marine Terminals
- Material Handling Facilities
- Odour Control



### **Engineering Services**

Our company offers a broad range of engineering services including:

- Preparation of Project, Economic and Feasibility Studies
- Plants Conceptual and Preliminary Design
- Process Plant Design Engineering using AutoCAD
- Process Technology Appraisal and Selection
- Process Optimisation
- Advanced Process Control
- Overall Project Management
- Upgrading of Existing Facilities
- Technical Troubleshooting
- Construction Specifications and Contractor Bid Evaluation
- Conceptual Engineering and Estimating

- Planning and Scheduling
- Preliminary and Detailed Engineering Design
- Equipment specifications
- Equipment and Materials Procurement
- Environmental Assessment / Permitting
- Start-up Assistance
- Project and Construction Cost Estimating
- Construction Management
- Inspection/QA/QC
- Operator Training



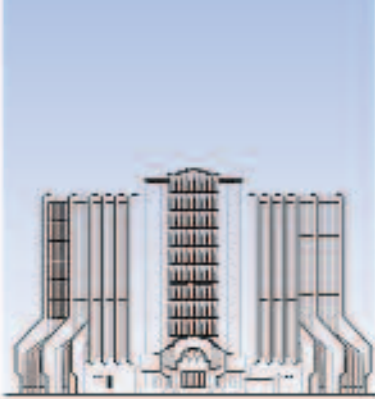
**SKADO is a multidiscipline engineering company, with a present staff of engineers, designers and draftsmen. Our civil / structural, process / mechanical, electrical, and instrumentation engineers, designers and draftsmen, as well as our environmental and construction management departments, are experienced in all aspects of engineering services listed below**





### SKADO's Other Associates

In addition, SKADO has the required resources to undertake any assignment, whether it's large or small. SKADO is technically supported by its internationally renowned associates in various fields which includes:



#### • MASON & TURNER

Provides engineering and management consulting services for the petroleum and petrochemical and industrial plant

#### • DHI

A leading software system developer and integrator, with worldwide reputation in the development of real – time automation and information management systems.

#### • INTERNATIONAL CONSULTANTS

A foremost Consultancy in the following areas of expertise:

- Project Management
- Refinery/Petrochemical/Chemical Plants
- Oil and Gas Production
- Compressor Stations
- Mining and Minerals Processing
- Ports and Marine Terminals
- Industrial Waste Management
- Power Plants and Distributing Systems
- Material Handling and Storage
- Site Selection and Development
- Dredging and Hydraulic Fill
- Pipelines / Metering Stations
- Buildings / Municipal Facilities
- Roads/Bridges / Utilities
- Drainage / Pumping Stations



#### • ABI

Allawy-Beratende Ingenieure, short name ABI, has its activities concentrated around the fields of sea water desalination using **M.S.F.** Multistage Flash Distillation for Seawater Desalination

**M.E.D.** Multi-Effect Desalination  
**M.V.C.** Mechanical Vapour Compression for Seawater Desalination

**T.C.D.** Thermal Compression Desalination for Seawater Desalination



# A TEAM OF SPECIALISTS

*We are proud of our specialized team that includes professional engineers, programmers, quality assurance personnel, technical writers and management experts. Management and Staff share a common goal:*

**A DEDICATION TO QUALITY**

## **A TEAM OF SPECIALISTS**

Our service, technology and capabilities are built on the strength of our people. SKADO staff are hired for their skills, experience and superior work ethic.

## **SKADO COMPREHENSIVE SERVICES**

SKADO is capable of offering the following services to meet the needs of each and every customer's requirements:

- Feasibility Studies
- Engineering Consultancy & Advisory
- Planning and Design
- Process Plant Design & Specification
- Detailed Engineering
- Marketing Research & study
- Project Evaluation
- Contract / Project Management

- Inspection/Troubleshooting
- Training
- Water Treatment Plants
- Waste Water Treatment Plants
- Desalination Plants (Brackish & Seawater)
- Oil / Water separation for Oil Refineries
- Cement Industries
- Iron and Steel Plants
- Telecommunication Systems/CATV Systems
- Lighting Systems
- Infrastructure & Civil Works
- Architectural Works
- Industrial Projects
- Processing Plants
- Harbour & Marina Construction
- Offshore – Marine & Dredging Works
- Environmental Studies
- Fuel / Water / Gas Pipelines
- Rural & Urban Development
- Development of Tourist Cities





SKADO expertise is enriched by a joint-venture agreement with some of the world's largest multi-disciplinary engineering consultancies specializing in transportation, water, building and infrastructure, with an impressive record of major engineering assignments worldwide. Together can provide a greater range of technical expertise and services.

SKADO also encompass offshore engineering geotechnics, communications and central systems, marine/marina works, information technology, project management risk and safety assessment management, development of tourist cities (complete town and seaside villages including utilities infrastructure).



SKADO comprehensive design and treatment of industrial wastes includes treatment plants for the following industries.

- Pulp and Paper Industries
- Dairy Industries
- Tanneries
- Textile Industries
- Slaughter Houses
- Ceramics Industry
- Fruit and Vegetable Processing
- Potato Processing
- Poultry Processing
- Fish Processing and Canning
- Metal Plating Industries
- Paint Industries
- Thin Film Plastics Industry
- Refinery Waste
- Sugar Industries

SKADO'S unique design of such industrial waste treatment plants allows further reuse of the water for agricultural, irrigation and industrial purposes, etc., hence, helping to reduce water cost by proper treatment and water recycling.

For OTHER activities, higher production size plants or complex industrial water treatments, SKADO COMPREHENSIVE EXPERIENCE AND BACKGROUND allows us to supply with full guarantees the above-mentioned services and products.





SKADO has direct and significant application experience with current automation and control systems technologies including:

- Distributed Control Systems (DCS)
- Programmable Logic Controllers (PLC)
- Supervisory Control and Data Acquisition (SCADA)
- Personal Computer Interfaces and Operator Stations
- Third Party PC Based Software Applications
- Programmable Single Loop Electronic Controllers
- Pneumatic and Hydraulic Control Systems
- Host Computer Applications
- Microprocessor Control
- Flow Computers
- Remote Telemetry and Communication Systems
- Process Data Loggers
- Triple Redundant Control Systems

Control applications with which we have experience include:

- Continuous Process Controls
- Batch Process Control
- Compressor Surge Control
- Boiler Controls
- Diesel and Gas Engine Control
- Gas Turbine
- Steam Turbine
- Safety Shutdown Systems
- Gas Compressor Controls
- Pump Control
- LACT Controls
- Energy Management System Controls
- Cogeneration System Controls
- Load Shedding/Peaking Controls

#### ELECTRICAL SYSTEM EXPERIENCE

SKADO has direct and significant experience providing the following services to clients:

- Review/Audit (Review of other engineering firms' designs)
- Conceptual Planning of Electric Power and Control Systems
- Electrical Power Plant Design
- Medium and High Voltage Transmission and Distribution
- Emergency Power Systems (Generators/UPS)
- Safety Systems
- Lighting
- Protective Relay Coordination Studies
- Fault Studies
- Load Flow Studies
- Transient Stability Analysis
- Lighting System Studies
- Inspections For Compliance: NEC – National Electrical Code  
MMS – Minerals Management Service  
IEC - International Electric Code
- Inspections for Conformance to Specifications
- Equipment Acceptance Testing. (Both shop and field testing)
- Troubleshooting (Offshore, Gas, Plants etc.)
- Emergency Shutdown System Field Testing
- Hazardous Area Classification Specialists



# CLIENTS

#### SKADO CLIENTS INCLUDE:

- Ministries of Water and Electricity
- CEMENT COMPANIES / MANUFACTURERS
- INDUSTRIAL / COMMERCIAL ORGANISATIONS
- PRIVATE/ GOVERNMENTAL DEPARTMENTS
- INVESTORS & DEVELOPERS OF URBAN TOURIST VILLAGES

# Automation & Control



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