



A | S | A
SERVING THE FUTURE

Providing Cutting Edge Service Worldwide

First page

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السيك **asec**
القابضة holding

QALAA
HOLDINGS
القلاية

إيكا
ISO 9001

UKAS
QUALITY
MANAGEMENT
008

An African Leader in Infrastructure and Industry



ENERGY

Our integrated energy investments cover the value chain from refining to energy distribution, power generation and renewables, providing solutions that helping countries ensure their energy security.



CEMENT

Our cement and construction division includes regional cement manufacturer ASEC Cement (which currently controls an influenced cement production capacity of 6.5 MTPA) and providers of construction, engineering and plant management services.



AGRIFOODS

Our agrifoods platforms Gozour and Wafra hold household names that produce fresh milk, dairy products, staple crops, produce and meat — all primarily for domestic consumption by consumers in each of the nations in which they operate.



TRANSPORTATION & LOGISTICS

Qalaa Holdings' railway and river transport investments provide affordable, reliable logistics solutions that are lowering barriers to trade, driving regional growth and have lower environmental footprints than conventional channels.



MINING

Qalaa Holdings' mining investments provide quarrying services to the Egyptian cement industry, export value-added industrial minerals to global industries, produce environmentally friendly insulation and invest in precious metals across Africa.



Qalaa Holdings is a leading investment company in Africa and the Middle East. We invest in core industries that will shape the future of Egypt and Africa: energy, cement, agrifoods, transportation & logistics, and mining.

An African Leader in Cement Industry



ASEC Holding is a leading regional cement, engineering and construction group with operations spanning Africa and the Middle East. With over 30 years of experience, ASEC's portfolio of services includes plant design and engineering, technical management, automation and construction. Portfolio company ASEC Cement is emerging as a leading regional cement producer that plans to produce 10 million tons per annum (MTPA) of cement by 2016 in attractive, key markets in the region, including Egypt, Sudan and Algeria.

Qalaa Holdings' cement platform company is ASEC Holding, a leading regional cement, engineering and construction group with operations spanning Africa and the Middle East. With more than 30 years of experience, ASEC's portfolio of services includes plant design and engineering, technical management, automation and construction.

ASEC's portfolio includes cement manufacturing (ASEC Cement with production facilities: Al-Takamol Cement in Sudan, Misr Qena Cement, ASEC Ready Mix and ASEC Minya in Egypt, Zahana Cement Co. and Djelfa (under construction) in Algeria and a greenfield license in Syria). ASEC's construction and management services are carried out through ARESKO, ASEC Engineering, ASEC Automation and ASENPRO.

ASEC Cement is emerging as a leading regional cement producer with an influenced cement production capacity of 6.5 MTPA in attractive, key markets in the region, including Egypt, Sudan and Algeria. ASEC Cement is in the process of converting all of its facilities to solid and alternative fuels to mitigate the risk of dependence on fossil fuels, which are currently in short supply in Egypt and Sudan and likely to rise to international prices in the coming three years as subsidies are progressively removed.

ASEC Cement holds a 35% stake in Zahana Cement, which, as part of Qalaa Holdings's stated intention of holding only majority stakes in core subsidiaries, the company is actively seeking to divest. The company is in talks with General of Ciments Algerie (GICA), the Algerian holding company that controls all public-sector entities operating in the building materials sector, regarding the planned exit.



ENERGY



AGRIFOODS



TRANSPORTATION & LOGISTICS



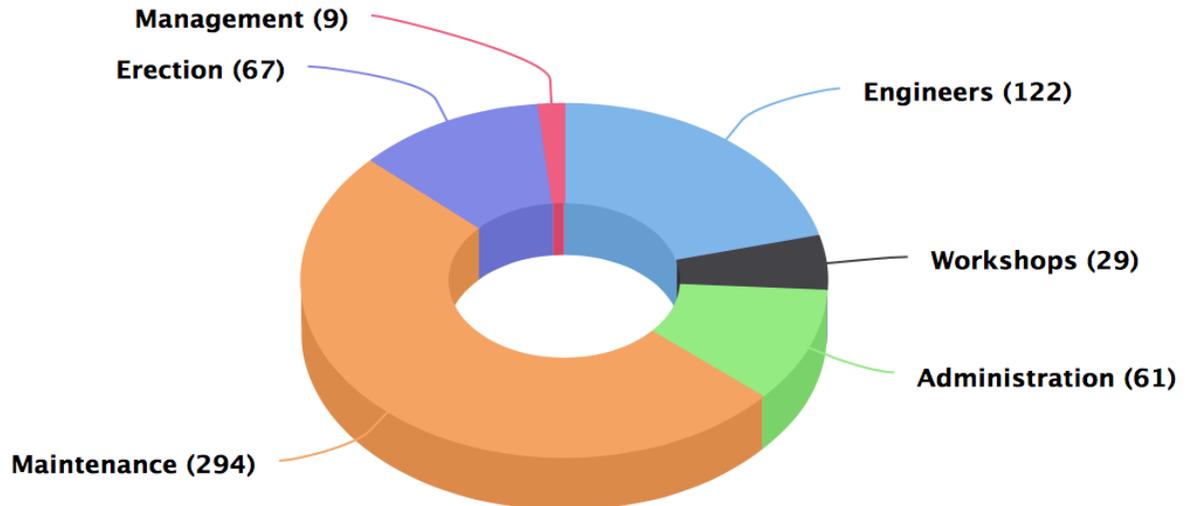
MINING

20 years of success as Electrical & Automation EPC contractor



ASEC AUTOMATION EMPLOYEES

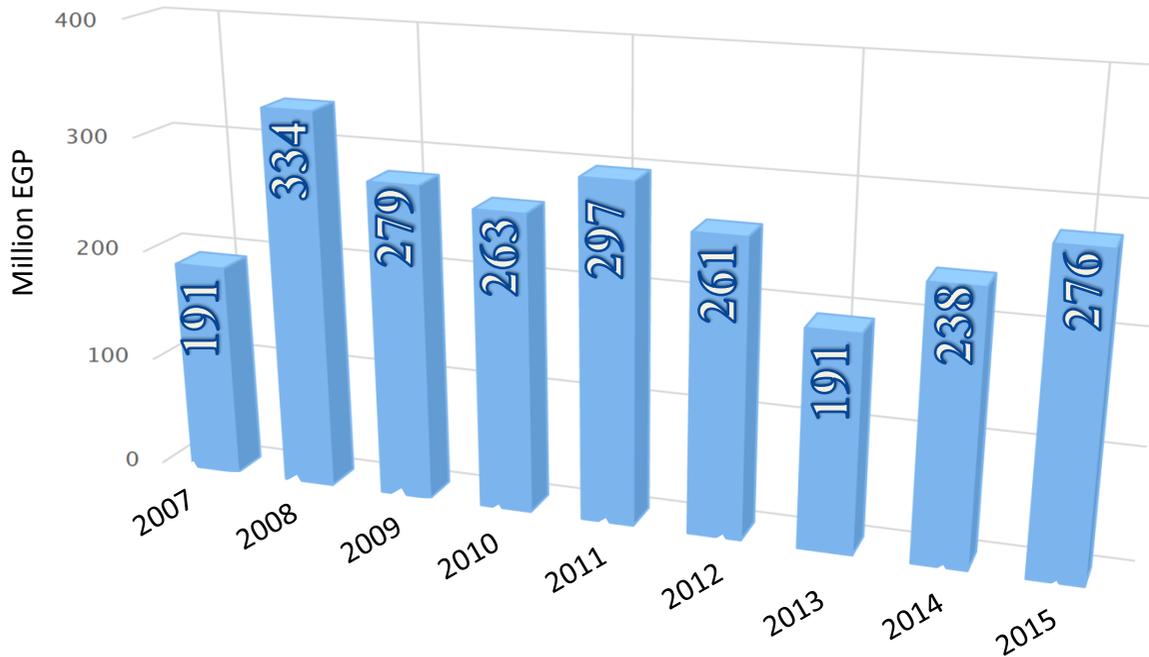
TOTAL HEADCOUNT: 582



20 years of success as Electrical & Automation EPC contractor



COMPANY TURN OVER



PROJECTS MAIN REFERENCES

<p>MINYA</p>  <p>Revamping of the existing FIX system by an ABB OCS (Level II)</p> <p>1997-Egypt</p>	<p>TOURAH</p>  <p>Line 9</p> <p>Upgrading</p> <p>1998 - Egypt</p> <p>Italcementi Italcementi Group A world class local business</p> <p>Level 2: FLSA Level 1: Schneider</p> <p>1600 I/O</p>	<p>TOURAH</p>  <p>Line 8</p> <p>Upgrading</p> <p>1999 - Egypt</p> <p>Italcementi Italcementi Group A world class local business</p> <p>Level 2: FLSA Level 1: Schneider</p> <p>1600 I/O</p>
<p>SUEZ</p>  <p>Upgrading</p> <p>1000 I/O</p> <p>1999- Egypt</p> <p>Italcementi Italcementi Group A world class local business</p> <p>- Level 2: ABB Advant Station - Level 1: ABB AC450 – S800</p>	<p>SINAI Grey</p>  <p>New Plant</p> <p>1999 to 2000 - Egypt</p> <p>-Level 2: FLSA -Level 1: Allen Bradley</p>  <p>6000 I/O</p>	<p>ASSIUT</p>  <p>Upgrading Line 1</p> <p>2000 - Egypt</p> <p>- Level 2: FLSA ECS - Level 1: Schneider Quantum</p> <p>5000 I/O</p>
<p>SINAI White</p>  <p>New Plant</p> <p>2000 to 2001 - Egypt</p> <p>-Level 2: FLSA -Level 1: Allen Bradley</p>  <p>5000 I/O</p>	<p>QENA</p> <p>New Plant</p> <p>2001 to 2002 - Egypt</p> <p>-Erection -Commissioning</p>	<p>LAFARGE</p>  <p>JCF Rashadia Upgrading</p> <p>2001 to 2003 - Jordan</p> <p>- Level 2: Alstom Alpha 800 -PLC: Alstom - I/O: GE</p> <p>6000 I/O</p>
<p>Upgrading HELWAN Line 1</p> <p>2001 - Egypt</p>  <p>- Level 2: ABB IT - Level 1: ABB IT</p> <p>5800 I/O</p>	<p>ASSIUT</p>  <p>Upgrading Line 3</p> <p>2000 - Egypt</p> <p>- Level 2: FLSA ECS - Level 1: Schneider Quantum</p> <p>4000 I/O</p>	<p>LAFARGE</p>  <p>JCF FUHAIS</p> <p>2003 - Jordan</p> <p>5000 I/O</p> <p>- Level 2: ABB Advant Station -Level 1: ABB, MP200, -AC410- AC450 – S800</p>
<p>ASSIUT</p>  <p>Upgrading Line 2</p> <p>2003 - Egypt</p> <p>4000 I/O</p> <p>- Level 2: FLSA ECS - Level 1: Schneider Quantum</p>	<p>AMREYAH</p>  <p>Upgrading</p> <p>2003- Egypt</p> <p>- Level 2: ABB IT - Level 1: ABB IT S800</p> <p>1000 I/O</p>	<p>LAFARGE</p>  <p>INCEHSA</p> <p>2002 to 2004 - Honduras</p> <p>3000 I/O</p> <p>- Level 2: FLSA - Level 1: Allen Bradley</p>

PROJECTS MAIN REFERENCES

 <p>LAFARGE MEKNES 4000 I/O 2003 - Morocco</p>	<p>HELWAN Line 2 Upgrading 2003 to 2004 - Egypt</p>  <p>SERVING THE FUTURE - Level 2: ABB IT - Level 1: ABB IT 4000 I/O</p>	<p>ASSIUT</p>  <p>Packing Plant and Miscellaneous 2004 to 2005 - Egypt</p>
 <p>Engineering - Level 2: ABB IT - Level 1: S800 4500 I/O 2004 to 2005 - Mexico</p>	 <p>AMREYAH L1 Upgrading 2006- Egypt</p> <p>- Level 2: ABB IT - Level 1: ABB IT S800 9000 I/O</p>	 <p>SINAI Grey New Plant 2006 to 2008 - Egypt</p>  <p>-Level 2: FLSA -Level 1: Allen Bradley 6500 I/O</p>
 <p>SINAI White New Plant Line II 2006 to 2008 Egypt</p> <p>-Level 2: FLSA -Level 1: Allen Bradley 5500 I/O</p>	 <p>Takamol</p>  <p>ARESCO New Plant 2007 to 2009 - Sudan</p> <p>-Level 2: FLSA -Level 1: -Schneider 7000 I/O</p>	<p>Building Materials Industry Company (BMC)</p>  <p>Assiut Plant</p>  <p>2010 : 2011 - Egypt</p>
 <p>Mynia Plant Siemens PCS7 - 8,000 IOs 2012 - 2014 - Egypt</p> 	 <p>QNCC #5 Siemens PCS7 V8.0 10,000 IOs 2015 - 2016 - Um Baba - Qatar</p>	 <p>SCAEK Line II POLCID / Siemens 10,000 IOs 2015 - 2016 - Algeria</p>
 <p>Italcementi Group A world class local business</p>  <p>COAL MILLS 2014 / 2015 / 2016 Egypt</p>	 <p>Elementia Tula 2 ABB 800xA V5 10,000 IOs 2015 - 2016 - Tula Mexico</p>	 <p>ORASCOM CONSTRUCTION New Cairo WWTP 6th October Power plant 2012 - 2015 - Egypt</p>

PROJECTS MAIN REFERENCES - PHILIPPINES

 <p>RDF System Siemens PCS7 - 1000 IOs 2012 - Lugait Plant</p>	 <p>RDF System Siemens PCS7 - 1000 IOs 2013 - Davao Plant</p>	 <p>RDF System Siemens PCS7 - 1000 IOs 2013 - Bulacan Plant</p>
 <p>RDF System Siemens PCS7 - 1000 IOs 2013 - Norzagaray Plant</p>	 <p>RDF System Siemens PCS7 - 1000 IOs 2013 - Teresa Plant</p>	 <p>Cement Mill Allen Bradley FLSA - 2,000 IOs 2013 - 2014 - APO Plant</p>
 <p>APO Jetty Terminal Allen Bradley FLSA - 500 IOs 2014 - APO Jetty Terminal</p>	 <p>Iloilo Terminal Siemens PCS7 - 500 IOs 2014 - Iloilo Terminal</p>	 <p>Lafarge Horomill Siemens PCS7 V8.0 1,500 IOs 2014 - 2015 - Teresa Plant</p>
 <p>Debottlenecking Project Siemens PCS7 - 500 IOs 2016 - Norzagaray Plant</p>	 <p>Lafarge Horomill Siemens PCS7 V8.0 1,500 IOs 2015 - 2016 - Norzagaray Plant</p>	 <p>Teresa PCS Upgrade Siemens PCS7 - 10,000 IOs 2015 - 2016 - Teresa Plant</p>
 <p>Batangas PCS Upgrade Siemens PCS7 - 10,000 IOs 2015 - 2016 - Batangas Plant</p>	 <p>Electrical Maintenance 2016 - Bulacan Plant</p>	 <p>Norzagaray PCS Upgrade Siemens PCS7 - 10,000 IOs 2016 - 2017 - Norzagaray</p>



MAIN CLIENTS – CEMENT INDUSTRY



fives



MAIN PARTNERS



Ansaldo Sistemi Industriali S.p.A.



ASA MAIN PROJECTS - UPGRADINGS

• ITALCEMENTI	Mynia PCS Upgrade	Egypt
• ITALCEMENTI	Tourah L1 & L2	Egypt
• ITALCEMENTI	Suez L1 & L2	Egypt
• CEMEX	Assiut L1 & L2 & L3	Egypt
• ITALCEMENTI	Helwan L1 & L2	Egypt
• ITALCEMENTI	Kattameyah L1	Egypt
• FLSmidth	Lafarge Piedras Azules	Honduras
• LAFARGE	Lafarge PCS Upgrade	Honduras
• FLSmidth	NCC L1 & L2	Egypt
• CIMPOR	Amreyah L1 & L2	Egypt
• LAFARGE	Rashadya L1 & L2	Jordan
• LAFARGE	Fuhais L1 & L2	Jordan
• LAFARGE	Meknes L1	Morocco
• TITAN	Alexandria Plant Upgrade	Egypt
• CEMEX	APO Cement Mill	Philippines
• LAFARGE	Teresa PCS Upgrade	Philippines
• LAFARGE	Norzagaray PCS Upgrade	Philippines
• LAFARGE	Batangas PCS Upgrade	Philippines

ASA MAIN PROJECTS – NEW LINES

•FLS/ARESCO	Sinai White 1&2	Egypt
•FLS/ARESCO	Sinai Grey 1&2	Egypt
•FLS/ARESCO	Quena	Egypt
•FLS/ARESCO	Al Takamol	Sudan
•Heidelberg	Atbara Plant	Sudan
•FCB	Titan Beni Suef	Egypt
•FCB	Lafarge Tula 1	Mexico
•POLYSIUS	Beni-suef	Egypt
•FLS	El Sweedy Plant	Egypt
•FLS	Wadi El Nil Plant	Egypt
•FLS/ARESCO	Asec Minya 1	Egypt
•KHD	BMIC	Egypt
•KHD	South Valley	Egypt
•FLS/ARESCO	Djelfa 1&2	Algeria
•POLYSIUS	Beni Suef	Egypt
•ASEC CEMENT	Asec Mynia 2	Egypt
•POLYSIUS	SCAEK Ain El Kebira	Algeria
•FCB	QNCC Line 5	Qatar
•FCB	Elementia Tula L2	Mexico

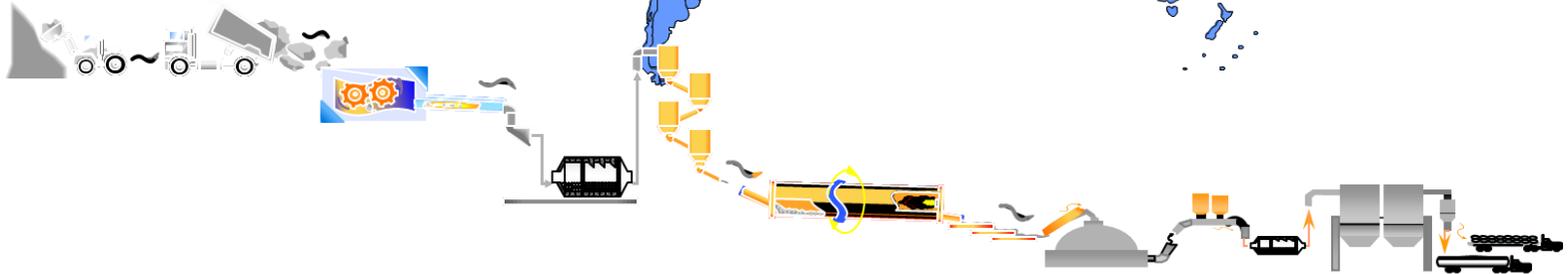
22 NEW PLANTS

OVERSEAS PROJECT EXAMPLE

**INCEHSA PROJECT
HONDURAS**

LAFARGE - FLS

The existing cement plant is located at Piedras Azules, at a distance of 7 Km from Comayagua and at a distance of 90 Km from Tegucigalpa (Capital City of Honduras).



RAW MILL IMSAT	KILN PSP	COOLER TURN-KEY FLSMIDTH
AUTOMATION/ELECTRICITY ASEC AUTOMATION		

AUTOMATION/ELECTRICITY ASEC AUTOMATION
PHASE II



**Total Contract Amount:
3.800.000,00 Euros**

Phase I : 2002 – 2003

Phase II: 2004



Raw Mill Upgrading

Engineering, Supply, Erection and Commissioning:
Customer: INCEHSA

Automation Phase 1:

Engineering, Supply, Erection and Commissioning / Customer: INCEHSA

COOLER

Engineering and Supply / Customer: FLS

COOLER

Erection and Commissioning :
Customer: CPC Honduras (FLS)

**Crusher A & B, Cement Mill 1,2 and
Puzzolana**

Engineering, Supply, Erection and
Commissioning:
Customer: INCEHSA



Some data for Phase I:

- 180 Tons of Electrical Materials sent to Honduras
- 150 Kms of cables
- 3000 Inputs/Outputs
- 270 Motors (110 New – 160 Existing)
- Kiln stoppage 55 days

Automation Phase 1

Disconnecting and dismantling the existing Mimic and panels of the control room



Disconnecting and dismantling the existing relay panels for:

- Raw mill existing part
- Kiln
- Utilities
- main sub-station

Replacement of the relay panel by new automation system:

- New PLCs panels
- New MCC's
- New Marshalling panels for I/O
- New LCB (Local control Box)



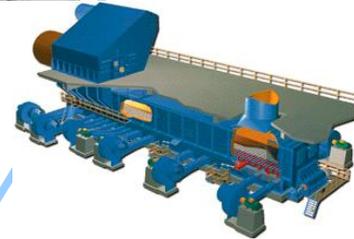
- New Sub-station
- MV Cells, Transformer
- MCC, ACC, MPL, MPA
- PLC, I/O
- Instrumentation



Cooler Upgrading



- Engineering
- Supply
- Erection and Commissioning



BAG FILTER FAN



HEAT EXCHANGER



BAG FILTER



AUMUND PAN CONVEYOR



SCOPE & SERVICES

ASA provides the following services, tailored per client's requirements in three main categories " Turnkey Projects for Greenfields and Revamping/Upgrading as well as Maintenance works:

Power Distribution System

- ✓ One line diagrams
 - High-voltage
 - Medium-voltage
 - Low-voltage
 - Emergency
- ✓ Load and motor start-up studies
- ✓ Short-circuiting studies
- ✓ Harmonic analysis
- ✓ Relay studies
- ✓ Equipment specifications

Electrical Rooms

- ✓ General arrangement drawings
- ✓ Equipment outline details
- ✓ Information for civil engineering
- ✓ HVAC design information and equipment supply

Automation

- ✓ Engineering
- ✓ Supply

Cables – Cables Tray

- ✓ Cables Routing
- ✓ All voltage levels
- ✓ All signal levels
- ✓ Cables Specifications
- ✓ Cables List

Lighting

Earthing, Lightning Protection

Equipment

- ✓ MV Cells
- ✓ MCC
- ✓ LVDB
- ✓ UPS
- ✓ Capacitor Bank
- ✓ Transformer
- ✓ Diesel Generator
- ✓ Motors
- ✓ Variable Speed Drive
- ✓ Instrumentation
- ✓ Spare Parts
- ✓ Workshop inspection and test

Communication/System

- ✓ Telephone System
- ✓ Fire detection
- ✓ CCTV System
- ✓ Clock system
- ✓ Scanner

On site

- ✓ Supervision
- ✓ Installation
- ✓ Commissioning and as-built documentation
- ✓ Technical Assistance
- ✓ Audit

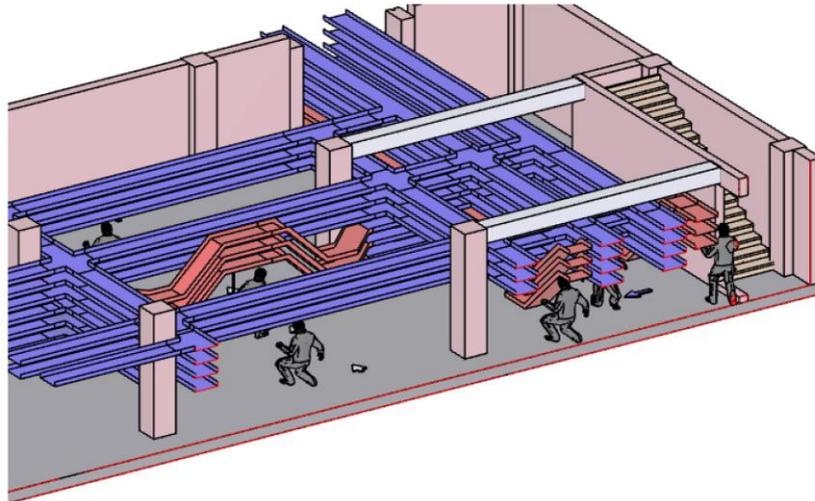
Training

- ✓ Standard office training
- ✓ On site Training

- **Audit**
- **Project Specification**
- **Engineering**
- **High and Medium Voltage**
- **Low Voltage Equipment**
- **Automation**
- **Instrumentation**
- **Erection and Commissioning**
- **Training**
- **Operation and Maintenance**
- **After-Construction Support**

ELECTRICAL BASIC ENGINEERING

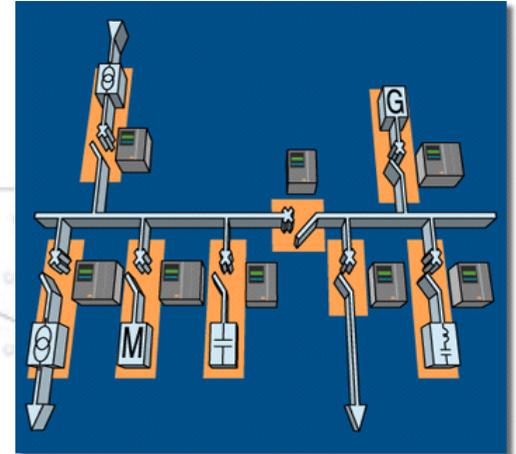
- Basic Engineering
- Electrical Coordination
- Flow Sheet with instrumentation
- Instrumentation list
- Electrical Load List
- Listing of electrical motors and loads
- Unit circuit diagrams typical
- Motor Drives basic demands
- One line Diagram (Basic)
- Local Sub-Station layout an basic requirement for civil design
- General layout of cable routing (between building and /or tunnel, conduct banks)



HV / MV – DETAILED ENGINEERING

Transformer, Switchgear, Motors, Frequency drive

- One line Diagram (detailed)
- Calculation of power demands
- Short circuit calculation
- Current Carrying capacity
- Discrimination Study
- Relay setting
- Power factor
- Harmonics study
- Transformers power calculation
- Variable Speed Drives & MV Motor Drives
- Relation with working machine and power distribution system
- Drive type specification
- Cooling form
- Enclosure
- Cable List for High-Medium Voltage
- Cable specifications



ENGINEERING SOFTWARE



AUTODESK®
AUTOCAD®



INVENTOR

SOLIDWORKS



AUTODESK REVIT



AUTODESK®
3DS MAX®



AUTODESK® AUTOCAD® MEP

AUTOMATION

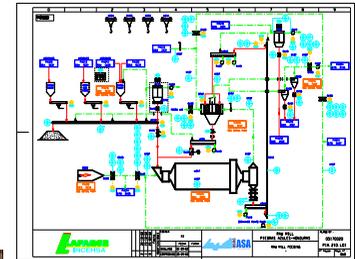
ASA Provides a wide and diverse range of Automation and Industrial Data Processing including :Concept Development, Programming, Diagnostic Management Control, Process Control and Technical Assistance, Preventive and Intervening maintenance.

- Flow sheet
- Standards of programming
- Interlock and control loop diagrams
- Unit Diagram
- Control System configuration & requirements
- Software system
- Mimics pictures
- PLC & I/O
- Cabinet layout
- Programming
- FAT test
- Control desk
- Expert control equipment
- Fuzzy logic
- Kiln Scanner
- Cooler Scanner
- Power Management System
- Management Information system
- Operator Simulation system
- Training system



ASEC AUTOMATION's experience covers the following systems :

- ABB Procontic, Master, Advant and 800xA
- SIEMENS, S5, S7, PCS7 and CEMAT
- ALLEN BRADLEY ControlLogix, ProcessLogix
- ALSTOM Alspa 8000 ICS
- FLS AUTOMATION system ECS/NT
- MITSUBISHI MAPS
- MODICON, APRIL and SCHNEIDER – Vijeo Citect
- MODCOMP, Protop
- GEFANUC
- FOXBORO
- ...



AUTOMATION WORKSHOP



Where the Automation Engineering, Programming, Testing are fulfilled according to the customer specifications and standards. 30 skilled automation engineers working on different DCS Systems from System Erection to Factory Acceptance Tests (FAT Tests). Fully simulating operating conditions. ASA FAT test equipment is able to handle 3000 digital I/Os and 300 analog I/Os simultaneously



INSTRUMENTATION EQUIPMENT

- Process instrumentation
- Gas Analysis Systems
- Measuring and Control Equipment
- Temperature Measurement
- Electrical Ear
- Dust Emission monitoring equipment
- Imaging Systems
- Kiln and Cooler Camera
- Kiln Scanner
- Closed Circuit TV system
- Control Valves (Actuators & Positioners)
- Safety & Relief Valves
- Solenoid Valves
- Shut Down Valves
- Temperature Transmitters
- Pressure & D/P Transmitters
- Level Transmitters & Controllers
- Temperature Gauge
- Pressure & D/P Gauge
- Level Gauge Glasses
- Tank Gauging
- Oil & Gas Analyzers
- Flow Switches
- Level Switches
- Temperature Switches
- Pressure & D/P Switches
- Self Actuated Pressure Regulators
- Rota Meters (Variable Area Flow Meters)
- Oil & Gas Metering Skid
- Thermocouple Assemblies RTD & Wells
- Transducer 1/P & P/1
- Data Logger
- Logic Shut Down, Inter Lock Systems & Safety Systems



Technical Assistance



Training



Spare Parts

ERECTION & INSTALLATION

Having a team of highly qualified Engineers, Technicians and Professionals enjoying wide experience in local and international Arena, ASA is able to undertake all types of installation and erection works with un-doubtful guarantee of success.

- H.V. , M.V. and L.V. electrical installations
- Instrumentation
- Erection Supervision.
- Start up and Commissioning



TEBBIN WORKSHOP

With a Surface of 1,400 m², and exceptionally competent team. ASA electrical workshop allows us to carry out various electrical panels:

- Low voltage distribution board (LVDB),
- Motors Control Center (MCC),
- Auxiliary Control Center (ACC),
- Marshaling Panels Logics (MPL),
- Marshaling Panels Instrumentations (MPI),
- Lighting Panels,.....



WORKSHOPS FREE ZONE Alexandria & Suez

In areas of Approx. 4,000 m², these workshops have the same functionalities as electrical workshop in Tebbin with the following advantages:

- ✓ Customs FREE (Overseas Projects).
- ✓ Sales Taxes FREE (Overseas Projects).
- ✓ Proximity to Import/Exports Ports (Alexandria & Suez).
- ✓ Heavy Infrastructure for Exportation and Importation
- ✓ Being in Alexandria and Suez with strategic routing flexibility.



General Authority for Investment and Free Zones



HEALTH, SAFETY & ENVIRONMENT

Being in a group that works in cement and process industries for more than 35 years, ASA has gained enough knowledge and experience to appreciate the HSE as a major pillar and value for its operation and commitment toward its employees, clients and global environment.

In Workshops, Projects Sites or even Offices, ASA is targeting a ZERO- Accident work environment.

Programs, Policies and Procedures include:

- Periodical Medical Examination.
- Preventive Care Programs.
- Sufficient and Updated PPE Supplies.
- Clear and Practical HSE Procedures.
- Regular Auditing and Inspections according to International Standards and Regulations.

In ASA, each project is unique and accordingly sufficient HSE studies are developed and implemented according to each project scope, location and environment.



MAINTENANCE & TECHNICAL MANAGEMENT

With a maintenance team of 294 qualified and experienced staff, ASA provides complete set of services for operation and maintenance, in typical plant, electrical maintenance is completely under the responsibility of ASA, the maintenance teams work on a shift base and the spare parts provided by ASA.

ASA is also preparing and implementing preventive maintenance program including investment budgets.

Alternatively Short-term contracts: During Kiln stoppage or per request, and within short notice period, ASA provides a complete team of electrical, instrumentation, Automation staff, for a definite period and cost basis.

HELWAN Cement Plant

2 lines
5000 T/D each

MIRS BENI SUEF Cement Plant

1 line
5000 T/D

SOUTH VALLEY Cement Plant

1 line
5000 T/D

MYNIA Cement Plant

1 line
5000 T/D

QENA Cement Plant:

1 line
4500 T/D

NAHDA Cement Plant

1 line
5500 T/D

BMIC Cement Plant

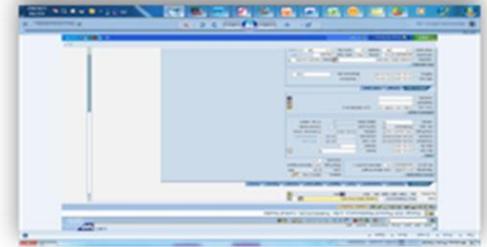
1 line
5000 T/D



MAINTENANCE SERVICES CONTROLS

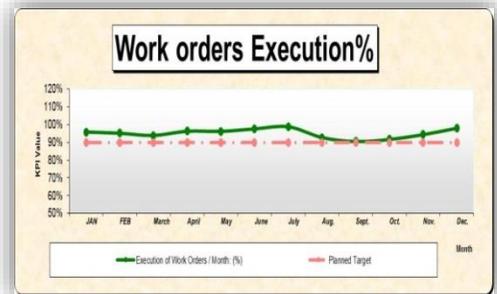
SAP Plant Maintenance Module

ASA has implemented the SAP Plant Maintenance software package module in all its maintenance projects, which facilitate the analysis of spare parts cost, troubleshooting and equipment availability.



Maintenance Performance Analysis

For monitoring and analyzing the performance of the maintenance process, ASA defines KPIs which are reviewed in a monthly basis to keep continual improvement for the good results and to analyze the root causes for the negative results. The related corrective actions are taken accordingly.



Motor Repair Workshop

To enhance and control the motors overhauling, repair and rewinding, ASA established a main motor repair workshop at Tebbin for LV motors rating 500 kW, in addition to the workshops established at client's sites.



MAINTENANCE DIAGNOSTIC & PREDICTIVE TOOLS

ASA expands and develops its services to include the predictive maintenance, ASA team has the latest technology for analyzing of motors, thermal image, network power quality and circuit breaker, Also ASA keeps the continual improvements of the measuring hand tools by using brand name types



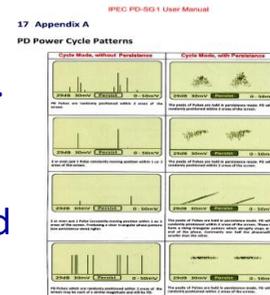
MAINTENANCE SERVICES

Partial Discharge Detecting (Non destructive Test)
For MV switchgear pane & Cables by IPEC's PD SG1.



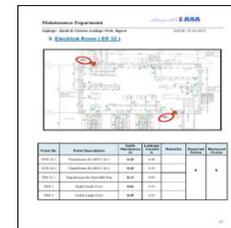
On Line Motor Testing
Using SKF Motor Analyzer Baker EXP 4000.

MV Circuit Breaker Tests
Using MEGGER-EGIL with SDRM option & USB port.



Power Quality Analyzing measurements
Including power factor, harmonics, power and energy measurements using FLUKE 435.

MV slip ring motors measurements
Ovality by CLProfiler; brush spring pressure by Dynamometer 90349 and surface roughness by Perthometer M1 Mahr.



EQUIPMENT COMMISSIONING & PLANT AUDIT

- **Equipment Commissioning & Plant Audit:**

ASA team performs the commissioning activities for all electrical equipment such as LV & MV Switchgear, drives, motors and instruments, also ASA team makes technical audit for the plant electrical equipment to define the required overhauling tasks for such equipment.

- **Electrical equipment overhauling:** switchgear gear, transformers, motors, and instruments.
- **Emergency maintenance visits.**
- **Spare Parts supply**
- **Motors overhauling:** Including Rewinding & bearing change.

ASA Maintenance team target is to always achieve the customer satisfaction in all cases and ties.



CERTIFICATIONS



ZERTIFIKAT ♦ CERTIFICATE ♦ 証明書 ♦ CERTIFICADO ♦ CERTIFIKAT ♦ CERTIFICADO ♦ CERTIFICAT



CERTIFICATE

The Certification Body
of TÜV SÜD Management Service GmbH
certifies that

ASEC Automation
6 street 308, New Maadi
Cairo, Egypt

has established and applies an
Environmental and Safety Management System
for the following scope of application:

**Engineering, Design, Assembly, Supply,
Erection, Commissioning, start up and
maintenance of Automation and
Electrical Works Projects.**

Performance of audits (Report-No. 707008632)
has furnished proof that the requirements under:

**ISO 14001:2004
BS OHSAS 18001:2007**

are fulfilled. The certificate is valid from 2013-05-06 until 2016-05-05.
Certificate Registration No. 12 104/116 45506 TMS

M. Weg
Product Compliance Management
Munich, 2013-05-06



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