

ELSEWEDY ELECTRIC AFRICA

July- 2013 Issue 6

*leadership is about
taking responsibility...*

*Dedicating **5000** Mw
for Egyptian Electricity
Problem Emergency Plan*

***Electronic Data
Interchange..***

*affecting economy and future
prosperity of business*



A Publication by

ELSEWEDY
ELECTRIC

Outsmart
future
challenges

INDUSTRIAL
SUSTAINABLE
DEVELOPMENT

FUTURE OF
FIBER BUSINESS
IN COMING DAYS

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Egypt witnessed a major electricity problem due to the dramatic increase in the frequency of power cuts. This problem has negatively affected Egyptians everyday life in many ways. The power cuts has a negative impact on a major transportation mean that is Cairo underground metro and contributed to water supply interruption. In addition, the frequent power cuts have impacted the industrial sector leading to the decrease in outputs and eventually hurting the local production.

Elsewedy Electric is always working on the well-being of the country; paying attention to the obstacles facing Egypt and trying to take an active role in the solution. The company attempted to make use of its capabilities and experience to improve and upgrade the power sector.

Being one of the major players in the energy sector we dedicated our resources to help in solving the lack of electricity problem that we are now facing by supplying 5000MW of energy.

Elsewedy Electric foresees that improving electricity distribution will impact the society positively as it will promote industries, brings more investors, and influence the improvement of services in all sectors.

Designed & Published by
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President & CEO
ELSEWEDY ELECTRIC



Future of Energy

Solar Power

**Global potentials and development
in Mediterranean Basin**



ENPI SELECTS ELSEWEDY AS PARTNER FOR THERMAL SOLAR DISTRICT UNITS FOR MEDITERRANEAN COMMUNITIES (STS-MED)

STS-Med focuses on the development, implementation and diffusion of pioneering technologies to improve energy efficiency in public buildings. The project will deploy 4 demonstrative plants based on Concentrating Solar (CS) power serving the energy demand of 20,000 end users coming from 20 Mediterranean local communities.



Every hour the sun beams onto Earth more than enough energy to satisfy global energy needs for an entire year. Solar energy is the technology used to harness the sun's energy and make it useable. Today, the technology produces less than one tenth of one percent of global energy demand.

ELSEWEDY S O L A R

Many people are familiar with so-called photovoltaic cells, or solar panels, found on things like spacecraft, rooftops, and handheld calculators. The cells are made of semiconductor materials like those found in computer chips. When sunlight hits the cells, it knocks electrons loose from their atoms. As the electrons flow through the cell, they generate electricity. On a much larger scale, solar thermal power plants employ various techniques to concentrate the sun's energy as a heat source. The heat is then used to boil water to drive a steam turbine that generates electricity in much the same fashion as coal and nuclear power plants, supplying electricity for thousands of people.

Solar power is the conversion of sunlight into electricity. Sunlight can be converted directly into electricity using photovoltaic (PV), or indirectly with concentrated solar power (CSP), which normally focuses the sun's energy to boil water which is then used to provide power. Other technologies also exist, such as Stirling engine dishes which use a Stirling cycle engine to power a generator. Photovoltaic were initially used to power small and medium-sized applications, from the calculator powered by a single solar cell to off-grid homes powered by a photovoltaic array.

Photovoltaic

A solar cell, or photovoltaic cell (PV), is a device that converts light into electric current using the photoelectric effect. Solar

cells produce direct current (DC) power which fluctuates with the sunlight's intensity. For practical use this usually requires conversion to certain desired voltages or alternating current (AC), through the use of inverters. Multiple solar cells are connected inside modules. Modules are wired together to form arrays, then tied to an inverter, which produces power at the desired voltage, and for AC, the desired frequency/phase.

Many residential systems are connected to the grid wherever available, especially in developed countries with large markets. In these grid-connected PV systems, use of energy storage is optional. In certain applications such as satellites, lighthouses, or in developing countries, batteries or additional power generators are often added as back-ups. Such stand-alone power systems permit operations at night and at other times of limited sunlight.

Concentrating Solar Power

Concentrating Solar Power (CSP) systems use lenses or mirrors and tracking systems to focus a large area of sunlight into a small beam. The concentrated heat is then used as a heat source for a conventional power plant. A wide range of concentrating technologies exists; the most developed are the parabolic trough, the concentrating linear fresnel reflector, the Stirling dish and the solar power tower. Various techniques are used to track the Sun and focus light. In all of these systems a working fluid is heated



“ Unlike fossil fuel based technologies, solar power does not lead to any harmful emissions during operation ”

by the concentrated sunlight, and is then used for power generation or energy storage. Thermal storage efficiently allows up to 24 hour electricity generation.

A parabolic trough consists of a linear parabolic reflector that concentrates light onto a receiver positioned along the reflector's focal line. The receiver is a tube positioned right above the middle of the parabolic mirror and is filled with a working fluid. The reflector is made to follow the Sun during the daylight hours by tracking along a single axis. Parabolic trough systems provide the best land-use factor of any solar technology.

A solar power tower uses an array of tracking reflectors (heliostats) to concentrate light on a central receiver atop a tower. Power towers are more cost effective, offer higher efficiency and better energy storage capability among CSP technologies.

Power Costs

The PV industry is beginning to adopt levelized cost of energy (LCOE) as the unit of cost. For a 10 MW plant is estimated at \$0.15 to 0.22/kWh in 2005. The table below illustrates the calculated total cost in US cents per kilowatt-hour of electricity generated by a photovoltaic system as function of the investment cost and the efficiency, assuming some accounting parameters such as cost of capital and depreciation period. The row headings on the left show the total cost, per peak kilowatt (kWp), of a photovoltaic installation. The column headings across the top refer to the annual energy output in kilowatt-hours expected from each installed peak kilowatt. This varies by geographic region because the average insolation depends on the average cloudiness and the thickness of atmosphere traversed by the sunlight. It also depends on the path of the sun relative to the panel and the horizon. Panels can be mounted at an angle based on latitude, or solar tracking can be utilized to access even more perpendicular sunlight, thereby raising the total energy output. The calculated values in the table reflect the total cost in cents per kilowatt-hour produced. They assume a 5%/year total capital cost (for instance 4% interest rate, 1% operating and maintenance cost, and depreciation of the capital outlay over 20 years).

Net metering

Net metering is particularly important because it can be done with no changes to standard electricity meters, which accurately measure power in both directions and automatically report the difference, and because it allows homeowners and businesses to generate electricity at a different time from consumption, effectively using the grid as a giant storage battery. As more photovoltaic are used ultimately additional transmission and storage will need to be provided, normally in the form of pumped hydro-storage. With net metering, deficits are billed each month while surpluses are rolled over to the following month. Best practices call for perpetual rollover of kWh credits. Excess credits upon termination of service are either lost, or paid for at a rate ranging from wholesale to retail rate or above, as can be excess annual credits.

Environmental impacts

Unlike fossil fuel based technologies, solar power does not lead to any harmful emissions during operation, but the production of the panels leads to some amount of pollution.

Greenhouse gases

Life cycle greenhouse gas emissions are now in the range of 25-32g/kWh and this could decrease to 15g/kWh in the future. For comparison (of weighted averages), a combined cycle gas-fired power plant emits some 400-599g/kWh, an oil-fired power plant 893g/kWh, a coal-fired power plant 915-994g/kWh[84] or with carbon capture and storage some 200g/kWh, and geothermal high-temperature Power plant 91-122g/kWh. Only wind and geothermal low-temperature are better emitting 11g/kWh and 0-1g/kWh on average. Including the energy needed to mine uranium and the energy-intensity of power plant construction and decommissioning, some place nuclear power plants' life-cycle greenhouse gas emissions below 40g/kWh, but others give much higher figures. Using renewable energy sources in manufacturing and transportation would further drop carbon emissions.



Electronic data interchange (EDI)

by **Khaled El Atabani**
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ELSEWEDY ELECTRIC

The modern economy, the future wealth, prosperity of industry and commerce rely increasingly on the exchange of data and information, in electronic form, between business partners. The speed and reliability of the information exchanged coupled with the spread in the distributed use and applications of IT are increasingly affecting the competitiveness of businesses and international trade.

Electronic information exchanged in this way is growing in volume because of the increasing number of business

partners that may be involved (suppliers, customers, manufacturers, bankers, carriers, etc.) and the numerous documents that need to be exchanged.

Electronic Data Interchange (EDI) is still one of the most prevalent means by which businesses exchange data electronically representing approximately 75 percent of all business-to-business electronic transactions. EDI is the electronic exchange of business information—purchase orders, invoices, bills of lading, inventory data and various types of confirmations—between organizations or trading partners in standardized formats.

The performance of the system handling these documents can significantly affect the economy and future prosperity of a business. The ability to process and exchange trade data as quickly as possible allows stocks to be reduced at a profitable rate, helps cut financial costs, and gives firms such as this an additional competitive edge by

improving the service offered to their customers. In addition to the speed, the flexibility in responding to customers' changing needs and desires adds value to the service being offered and creates better commercial relationships. In response to the need for effective and efficient solutions to handle this way of doing business, EDI offers substantial advantages and opportunities. The EDI approach has been identified as the most important user base of open networks and likely to create one of the most fundamental changes in the way that future business is carried out.

At El Sewedy Electric, we have enabled BizTalk Server to perform the processing that is unique to EDI messaging, while leveraging its core messaging functionality by introducing an entirely re-architected platform for managing the exchange of EDI documents between EL Sewedy and its business partners. We are now capable to integrate trading partners into our existing business processes. A trading partner can be an external company or even a department within our own organization. As an initial step to test the platform, El Sewedy is currently implementing an EDI agreement with Rexel in France - one of Europe's largest electrical supplies distributor - successfully received their orders electronically, and is expecting to have the complete system up and running within the next couple of months.



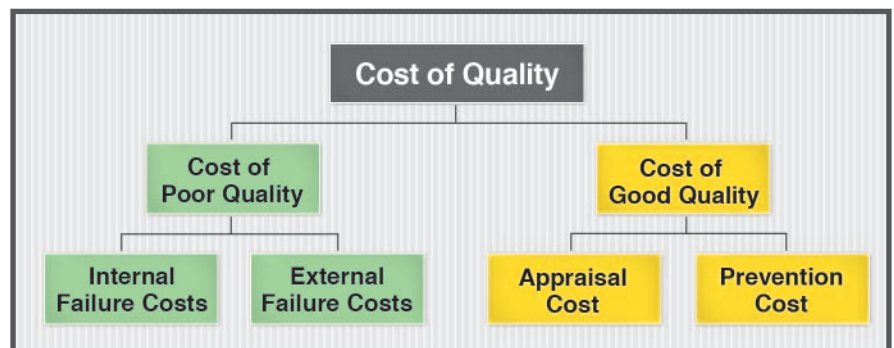
Using Cost of Quality as a tool to Improve Business Results

In times of economic uncertainty, business organizations are struggling to maintain profits and healthy bottom lines to survive. The competitiveness has prompted people to look for and focus on cost reduction strategies in the face of dwindling customer demands, reduced resources and reduced budgets.

Measurement of quality costs is one of the most effective tools used in Elsewedy Electric to identify, demonstrate the improvement approach and monitor its financial impact, aiming to adding value for customers and the business.

BASIC PRINCIPLES OF QUALITY COSTS

Our thinking on cost-of-quality methodology suggests that the newest emphasis in the quality arena is “return on quality” or “ROQ.” Conducting cost-of-quality studies as a prerequisite to selecting improvement projects is one way to focus efforts on those areas that make the largest contribution to our company’s financial performance.



The cost of quality has two main components:

- The cost of poor quality –COPQ (or the cost of non-conformance): Internal and external costs resulting from failing to meet customer requirements.
 - Internal failure includes costs associated with scrap, rework, delay penalties, equipment downtime and excess inventory.
 - External Failure includes warranty costs, customer complaint resolution, and sales returns, recalls.

- The cost of good quality(or the cost of conformance):

- Costs for investing in the prevention of non-conformance to requirements (Quality planning / Suppliers selection & evaluation / product review / Quality training)
- Costs for appraising a product for conformance to requirements (Checking & testing purchased goods / In-process & final inspections - tests / Product, process audits / Calibration of measuring & test equipments)



Elsewedy Electric approach for the quality cost reduction program

Recognizing that we are in a time of economic uncertainty, Elsewedy Electric has in the last few years begun to work on a “cost reduction” effort. As part of the continual improvement effort, we have begun to learn and introduce quality improvement methodologies, quality planning and strategic quality planning methodologies. At the time we began to study the “cost-of-quality,” It seemed clear, however, that one of the goals would involve decreasing the costs related to quality functions. The cost-of-quality methodology was viewed as a tool to identify projects that would reduce the cost of doing our work.

Our primary definition of success for the quality cost reduction program in Elsewedy Electric is based on two perspectives:

- Reducing cost of poor quality (cost of non-conformance)
- Implementing a culture of defect prevention(cost of conformance)

Reducing cost of poor quality

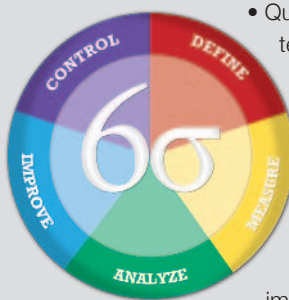
Our eight steps approach for reducing Cost of Poor quality is based on the followings:

1. Establishing an appropriate framework for capturing quality costs (methodology for quality cost calculation).
2. Carrying out statistical analysis to identify excessive waste & its financial impacts.
3. Experiencing the power of fact-based decision making and analysis.
4. Focusing on initiatives that drive the operating & structural advantages.
5. Introducing to organize cost-reduction projects and establish cross functional teams.
6. Applying Six Sigma & Lean Manufacturing techniques and adopted metrics to improvement areas.
7. Tracking financial impacts after improvement.
8. Refining documentations for sustained efficiency and long-term growth.

Our Lean & Six Sigma Philosophy of Cost of quality

The deployment of Lean & Six Sigma starts with “knowing where we are”, followed by driving improvement & tracking financial impacts, focusing on building quality into process and products and doing things right the first time.

- Six Sigma uses defect costs to quantify savings
- Lean Manufacturing focuses on reducing appraisal costs



- Quality Controls focuses on inspections and test activities to find defects early

Lean & Six Sigma made important contributions to our business, particularly by helping managers and employees to adapt and monitor the effects of change that is necessary and use of advanced set of tools, designed to solve problems faced by the company for improving their performance.

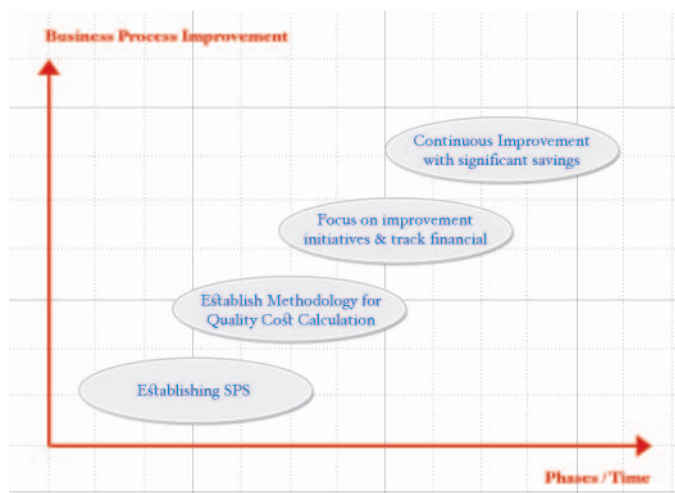
Implementing a culture of defect prevention

In Elsewedy Electric, defect prevention is a structured framework and ongoing process .The integral part of the defect prevention process begins with customer requirements analysis, followed by translating it into product / process specifications, inspections and testing (Quality Control Plan), our defect prevention culture is based on the followings:

1. Defects are not free, defects cause product to fail to meet customer requirements and make customers unhappy.
 2. There is a root cause for each defect
 3. Defects are preventable
 4. Defects waste time and cost money; It is better to prevent defects than correct defects
 5. Inspection/testing can be reduced for capable processes.
- Our vital process of the defect prevention methodology is to analyze defects to get their root causes.

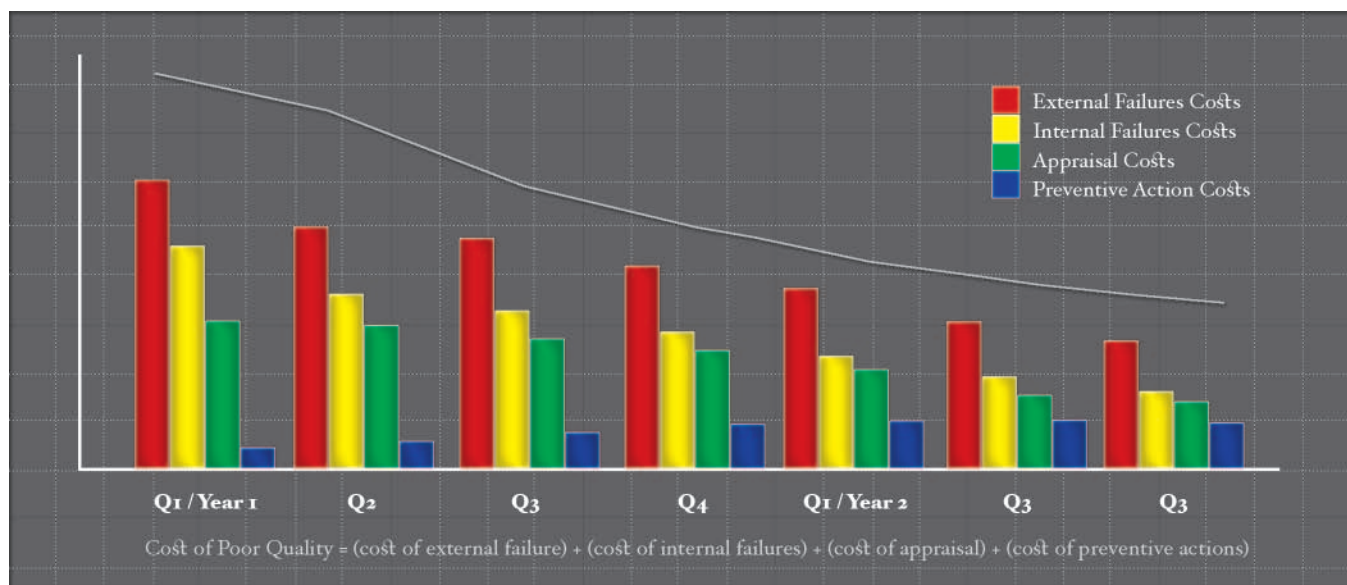
- The root cause analysis of a defect is driven by three key principles:
- Reducing the defects to improve the quality, i.e. implementing changes in processes that help prevent defects and ensure their early detection.
- Applying local expertise “The cross- functional team”, to give the best suggestions for how to avoid such defects in the future.
- Targeting the human errors: Identifying and preventing human errors can have a big impact on quality (in terms of defects).
- After consent and commitments from the cross-functional team, the team develops preventive measures to eliminate / prevent the defects from recurrence.
- Then the work instructions & checklists are refined, and any changes in the control processes are documented and embedded into our documented management system (SPS).
- Defect analysis and reporting in Elsewedy Electric offer a powerful means to manage defects and defect trends enable monitoring the effectiveness of the corrective actions taken and ensure enhancing the ability of our staff.

Improving Business Results in Elsewedy Electric



A systematic reduction in the Cost of Poor quality has been achieved by implementing our closed-loop, integrated quality management system (SPS) that captured COPQ associated with any non-conformances and uses these information combined with the continual improvement efforts to initiate and complete the following:

- Reduced errors with process design changes (poka-yoke)
- Enabled capability studies & defining optimum process parameter settings
- Enhanced supplier controls to refine product specifications
- Tooling control for improved manufacturability
- Refinement of acceptance criteria
- Upgrading the skill of employees through training
- Refinement of work instructions/check lists
- Closer participation of design engineers in definition of manufacturing processes
- Use focused checklists to enhance production review effectiveness
- Employ focus groups to better understand our customers' needs
- Efficient use of records to identify root cause for historical failures



Summary

Conclusion, in the business game, survival is not compulsory; the companies who are able to turn crisis into a true competitive advantage will be those that accept the challenges of implementing cost reduction strategies, and improving their capabilities in activities that will help them to be as efficient and effective now and when recovery comes.

In Elsewedy Electric, the use of “cost-of-quality” as a tool for optimizing business processes has become quite popular with employees' involvement as well as a useful methodology for selecting quality improvement projects. This is true for several reasons. First, it creates a common language across areas to make decisions about costs. Use of this tool encourages a long-term view of costs and realizes the value of prevention. Second, it encourages employees to start thinking about what they are doing and why and to come up with improvement ideas as they go along. Cost of Quality makes an ongoing economic case for the value measurement of quality, improvement, and excellence; we believe that continual improvement is our strategic tool to redefine the rules of the game.



Integrated Power Quality Functionalities

MT880

Industrial Smart Meter



Extended History of Experiences

*Leads Us to be One of the World's
Most Technology Advanced Producer
of Metering Equipments & Services*



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ISKRAEMECO

Subsidiary of ELSEWEDY ELECTRIC



SPS (Sewedy Production System) ***Integrated Management System***

by **Eng. Haitham M.Aly**
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1- What Is An Integrated Management System?

An integrated management system is a management system that integrates all of an organization's systems and processes in to one complete framework, enabling an organization to work as a single unit with unified objectives.

With an integrated system, your organization becomes a unified whole, with each function aligned behind a single goal: improving the performance of the entire organization. Instead of "silos", you have a genuinely co-ordinated system: one that's greater than the sum of its parts, and can achieve more than ever before. An integrated system provides a clear, holistic picture of all aspects of your organization, how they affect each other, and their associated risks. There is less duplication, and it becomes easier to adopt new systems in future.

An integrated management system allows a management team to create one structure that can help to effectively and efficiently deliver an organization's objectives. From managing employees' needs, to monitoring competitors' activities, from encouraging best practice to minimizing risks and maximizing resources, an integrated approach can help an organization achieve their objectives.

Who is it for?

Integrated Management is relevant to any organization, regardless of size or sector, looking to integrate two or more of their management systems into one cohesive system with a holistic set of documentation, policies, procedures and processes. Typically, organizations most receptive to this product will be those who have maturing management systems and who wish to introduce other management systems to their organization with the benefits that those bring.

2- Which Management System Standards Can Be Integrated?

A typical Integrated Management System might include:

- ISO 9001 (Quality Management)
- ISO 14001 (Environmental Management)
- OHSAS 18001 (Occupational Health & Safety)
- ISO/IEC 27001 (Information Security)

3- Why Should Management Systems Be Integrated?

The reasons

There are several good reasons for integration, to:

- reduce duplication and therefore costs
- reduce risks and increase profitability

- balance conflicting objectives
- eliminate conflicting responsibilities and relationships
- diffuse the power system
- turn the focus onto business goals
- formalise informal systems
- harmonise and optimise practices
- create consistency
- improve communication
- facilitate training and development

4- How Should Systems Be Integrated?

There are several approaches which can be taken, depending on an organisation's current position.

Conversion

If an organisation has a certificated QMS, it can build upon that by adding the necessary processes to cater for health, safety, environmental and other requirements of management system standards. All systems should share the following processes:

- document development and control
- training
- internal audit
- management review
- corrective action
- preventive action

There are a few important additions:

- Risk assessment - this should address safety risks, environmental impacts and process failure modes. By having a common approach it will be easier to compare risks occurring in different parts of the business
- regulations management - this should cover the capture of regulations on health, safety, security, etc and their analysis and impact
- programme management - this should focus on specific improvement programmes such as safety, environmental and security improvement
- public awareness - this should address the notification aspects of health, safety and environment
- The integration comes about by adding new practices to existing processes and hence revising documents to cover health, safety etc.
- The weakness with this approach is that the quality of the result very much depends on the approach an organisation took when developing the original quality system.

5- Integrated Management System in Elsewedy Electric SPS (Sewedy Production System)

• SPS (Sewedy Production System) issued on 1st of July 2010 & this project took about 10 months with coordination & cooperation between Q.A & all departments in Elsewedy Electric according to the following requirements:-

1- ISO 9001-2008

2- ISO 14001-2004

3- OHASA 18001-2007

4- ISO/TS 16949-2009

• This system (SPS) contains 57 Procedures cover all processes in Elsewedy Electric

1- Health, Safety & Environmental

2- Quality Assurance

3- Engineering

4- Local Purchasing

5- Foreign Purchasing

6- Technical

7- Logistic

8- Stores

9- Production

10- Planning



11- Improvement

12- Human Recourses

13- Quality Control

14- Dispatch

15- Information Technology

16- Sales

17- Turn Key Projects

• The Steps for establishing this system (SPS) is as follows:-

• This system (SPS) was applied in all cables & transformers factories and will be applied on the rest of our business segments before end of 2014 noting that BASEC (British Approval Service of Cables) certify & recommend this system (SPS) to be applied in all cable factories.



Outsmart future challenges

Intelligent investments in smart metering solutions today solve the smart grid challenges of tomorrow

Quality above everything

An energy meter has become an omnipresent device, measuring consumed energy, assuring monitoring of the quality of supply and providing reliable and accurate metering data. The accuracy and stability of the new Iskraemeco smart generation follows the FNN (FNN, a committee of the VDE promotes reliable operation and technical evolution of the electricity system by providing guidelines and recommendations) recommendations for photovoltaic installations and enables higher stability under disturbing conditions.

All this brings peace of mind by assuring that the meters are robust and reliable to flawlessly function in an EMI environment. Eventually, these are all prerequisites for promoting a fair relationship among market participants. The tendency for better and accurate on-time data is of significant importance especially to large energy consumers that strive towards making smart energy management decisions and to other market participants that want to improve their services. The utilities main concern today is that the power it delivers fulfils quality standards in order to assure the safety and protection of the consumers' equipment. Voltage sags, swells and momentary outages are able to cause serious damage to electronic equipment. In order to avoid equipment damage, power-monitoring mechanisms that provide a detailed snapshot of power usage and power quality are an indispensable component of a smart solution. With this in mind, Iskraemeco provided integrated power quality functionalities with the industrial smart MT880 meter and its power quality measurements complying with the EN50160. The meter enables vital power quality information such as current and voltage monitoring, voltage sags and swells, voltage cuts and frequency deviations. An integrated solution like this also means that costs connected

to setting up additional devices and related installation expenses can be avoided completely. The MT880 brings added value to its users because it practically works as a network analyzer. The real-time information it provides can prevent problems in the installed equipment. Due to its unique architecture, the meter allows users to make power related decisions quickly and effectively.

Communication is the key for assuring future-proof operation

Reliable on-time information is the basis of the smart metering solution. The principle "no reliable data, no billing processes and no revenue" is the ultimate truth, when it comes to the smart concept. Smart metering connects consumers, producers and emerging market participants in a completely new relationship. This interconnection is enabled through the smart meter and various two-way communication solutions available at Iskraemeco that transfer data in a fast and secure manner. The new MT880 is build to enable high communication modularity. The modular approach makes the overall meter architecture more flexible and maintainable. It allows easy integration of each and every module, even on site if necessary. Open, flexible and future-proof communication standards enable remote meter reading and control over the distribution systems, as well as real-time system updates. Interoperable communication protocols, an inherent part of the meter, assure a long-term safe investment. With the increasing number of market participants, the need for more communication and data transferring has arisen. With four independent communication interfaces the smart meter effectively deals with the future increased communication requirements of the smart grid market and the distributed generation trend.

Increased regulatory systems, growing competition, aging infrastructure and demanding consumers are the pressing challenges with which contemporary utilities are facing with. Decentralized energy generation has led to the establishment of the smart grid, allowing industrial generators, suppliers and consumers to be interconnected by intelligent control, monitoring and communication of energy generation and consumption. Iskraemeco industrial meters, as a vital component of this development are the instrument that will significantly simplify the smart grid experience and the challenges it presents in the field of smart metering.

It's all about distributed generation these days

The world is facing an enormous challenge in the transition towards sustainable energy sources. This leads to the introduction of distributed generation (wind turbines, photovoltaic solar systems...) and the requirements of establishing the appropriate transmission and distribution infrastructure to efficiently handle bi-directional energy flow. Industrial smart MT880 meters allow the utility to couple several distributed-generation plants and consequently build and manage a virtual power plant. Besides standard communication modules, the SCADA interface of the MT880 enables easy management of bi-directional energy flow.

The experience of safety

Due to growing costs of electricity, revenue protection is a major concern for all the actors involved in the energy management process. Iskraemeco threat management mechanisms allow market participants to protect their revenues against potential existing and emerging threats. Revenue losses caused by technical and non-technical influences impact the quality of supply, electrical load on the generating station and the tariff imposed on real customer usage. In addition, these losses damage the grid infrastructure and reduce grid reliability. With a reduced human role in energy management processes, devices with modern revenue protection features are a must have for utilities that are looking for ways to modernize their metering infrastructure. Remote detection and measurement of losses are one of the challenges that inspired Iskraemeco to develop the MT880 solution. Utilities can overcome these losses with meters containing features for remote detection of various types



MT880

and for restoring conditions that enable proper billing processes. The meters revenue protecting mechanisms display deviations, such as wrong connection, inverted current, no current per phase, unexpected current on the LCD screen, calculation of transformer and cable losses and communicate the events back to the centre, thus enabling immediate reparative actions.

Whether already smart or on the way to becoming smart, excellent performance, accuracy, high communication modularity and top security are the prerequisites for a carefree smart grid experience. With all the above mentioned benefits and characteristics the new Iskraemeco MT880 is certainly the industrial smart meter preparing you for existing and future challenges of the emerging smart grid. The MT880 without difficulty manages future demands for more communication capabilities and for storing enormous amounts of data, coming from different sources. For the purpose of optimizing energy management processes, the delivered data can be formulated according to the needs of individual market participants. The integrity of data and billing processes are secured by several threat management mechanisms. Build for overcoming present and future challenges, the new MT880 meter promotes the idea that by investing into Iskraemeco metering solutions today you are making a smart and safe investment for the future.

LEADING THE INDUSTRIAL SUSTAINABILITY



PIParks is Egypt's leading industrial estate developer. The company develops and manages two industrial parks of four million sqm in the 10th of Ramadan, with industrial clusters comprising food processing, engineering, building materials, textile and clean chemical industries as well as logistics areas.

Established in 2007, between SIAC Holding and Elsewedy Electric. PIParks provides investors with state-of-the-art, fully integrated industrial parks with infrastructure, utilities and services to promote maximum efficiency and profitability. The company's first project was the development of 1.1M sqm - Industria West.

In 2009, PIParks joined forces with El Consorci de la Zona Franca de Barcelona establishing yet another strong entity Pyramids Zona Franca Egypt - PZFE. Together they are responsible for the development of one of the largest industrial zones in the region -Industria East, over a total area of three million sqm.

An industrial park is an area of land set aside for industrial development and is evaluated based on its proximity to a well-developed transportation infrastructure and labour pools. The difference between the industrial parks and the industrial zones is the specialization, as all related industries are clustered in one place to provide feeding and supplementing industries.



INABLE DEVELOPMENT IN EGYPT



“The difference between the industrial parks and the industrial zones is the specialization”

Benefits of establishing your business in an industrial park

The most remarkable benefit of establishing your business in an industrial park is reducing the duration of factory establishment since the developer is working in advance on behalf of the investor to supply all the utilities internally and externally in collaboration with the governmental utilities' authorities.

Through industrial parks, companies benefit from economies of scale in terms of land development, construction and common facilities. This is in addition to collective access to utilities, road networks and a wide variety of other urban services.

Furthermore, the Government is supervising the developers' performance to guarantee a specific time frame for construction and sales; it carries out financial auditing to make sure that 80% of the developer's income from sales is spent on the project and also controls the prices.

Investment Zones

PIParks' projects were granted the investment zones status. The objectives of investment zones are to enable the private sector; specialized developers – to invest in infrastructure projects to be implemented in these zones in order to develop, promote and manage these areas, as well as providing all administrative and logistic services for the projects constructed there.

From the investors' perspective the most important and efficient feature is applying a unique administrative approach to implement procedures easily in a bureaucracy free environment, through the One Stop Shop system. According to this system, investment zones are managed through a supervisory-regulatory board of government representatives, the developer and the investors, to provide all construction and licensing services needed to start an activity. This board also guarantees that the investors are not overcharged for the running costs.

10th of Ramadan

PIParks' projects are located in the 10th of Ramadan. It has the largest industrial zone in Egypt, and has double the labour density compared to any other industrial zone. It is also responsible for 40% of Egypt's industrial exports. It is strategically located 50 km away from the capital making it an advantage to labour mobility, the majority of which is sourced from Cairo and Sharkeya governorates. Another strategic point is its proximity to a strong transportation network of expanding infrastructure of roads, freeways, the second ring road, the new metro line (completed in three years), Cairo International airport and major ports that provide an effective and sustainable distribution platform.

Offerings in PIParks' (industrial parks)

PIParks' offerings comprise: industrial and logistics plots for sale, administrative properties for both rent/sale, commercial properties for rent and Standard Fabricated Buildings (SFBs) for lease.





Supporting the competitiveness of SMEs

The provision of common facilities only available within industrial parks, are of particular value to SMEs - which usually cannot afford them on an individual basis; as such this directly contributes to sustainable development. SMEs operating in clusters have proven to be more productive and successful due to the easy dissemination of new production techniques. In addition, clusters constitute a favorable environment for encouraging competition; innovation and growth between SMEs as they help them attain critical mass, pool resources, find business partners, and gain access to valuable strategic information.

PIParks' experience has proven that there is an increasing demand from SMEs seeking small-sized industrial buildings in strategic locations with excellent accessibility and a wide variety of services to benefit from. PIParks introduces this new concept in Egypt, a generation of modular standard fabricated buildings - SFBs- for multipurpose use to house small manufacturing facilities, workshops, maintenance centers and warehouses, in addition to the option of combining them with administrative and retail areas.

Services provided to the investors

PIParks provides three categories of services: urban services for the public areas of the parks, community services available to our investors and utilities. The urban

services for the public areas of the parks comprise: environmental auditing, security, firefighting, medical, utilities and infrastructure maintenance, landscape maintenance, janitorial and waste management.

Concerning the community services, the company provides a wide range of services such as the One-Stop- Shop, the vocational training support center and recruitment support office, the business center, and outsources through a service provider other services such as banks, courier and shipping agents, security, landscape maintenance, janitorial and catering services. PIParks has also signed cooperation agreements with reputable partners such as the Environmental Compliance Office for Sustainable Development (ECO SD) to provide its investors with green construction consultancy and energy efficiency evaluation and monitoring services.

Finally, the utilities, which represent the cornerstone of successful projects, specially these days in Egypt. PIParks provides its investors, in cooperation with the local authorities, with water, sewage, electricity, thermal power solutions and telecommunications.

Challenges for the industrial development

The major challenges for industrial developers in Egypt are electric and thermal power supply. On that regard, PIParks is exploring in collaboration with international and local research institutions and system integrators the feasible solutions to provide thermal power by utilizing solar technologies that will supply the facilities within the park with hot water (at various temperatures) to be used for heating or as process water for each investor individually according to his needs.

With reference to the electric power, PIParks has worked for the past years together with a reputable private sector electricity supplier to build a 200 MWA substation on behalf of the government. This project is already planned and got the authorization of the Industrial Development Authority. The electric supplier and the Ministry of Electricity are in the process to finalize the agreement.

Enhancing Industrial Sustainable Development

PIParks provides the model for Green and Smart industrial parks in Egypt and the company's goal is to expand it in Africa and the MENA region. To that end, PIParks is committed to adopt the concept of sustainable development, keeping one eye on improving today's practices to produce better products and open new markets; and another eye on passing the natural resources we inherited to future generations. As such, the company is working on two levels; the first level is within the developer's premises and with the management to utilize cleaner environmental friendly practices aiming to minimizing waste, reducing energy and water use in addition to creating a safer atmosphere for both the environment and humans.

To reach this goal, PIParks is currently building an environmental management system (EMS), ISO 14001; acquiring ISO 50001, for Energy Management and introducing the Green Building Concept into PIParks' designs.

On the second level, PIParks encourages the industrialists to adopt the concepts and procedures for industrial sustainable development. To assist its investors in achieving this goal, PIParks outsourced the Environmental Compliance Office for Sustainable Development (ECO SD). Upon request, ECO SD provides PIParks' investors with a unique package of integrated services, such as: ECO Financial Credit Lines, Environmental Impact Assessment (EIA), Environmental Management System (EMS), Energy Management System (EMS), Intervention for Energy Efficiency at the design stage and interventions in the design of the investors' facilities to introduce the Green Building Concept.

Job creation potential of PIParks' projects PIParks estimates that Industria West will create close to 10,000 employment opportunities as well as attract around 560 Million EGP in both local and foreign investments. Industria East is foreseen to generate around 30,000 employment opportunities, and attract investments worth approximately 1.6 Billion EGP.



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FUTURE OF FIBER BUSINESS IN COMING DAYS...

The life style today is totally changed, if we compare ourselves with few years back. Everyone today is tuned with high speed network, updating with rest of the world. This is possible due to the faster broadband facilities available today supported by fiber optic cables. In fact, the fiber cables are the future of today's communication technology with the help of new innovations such as dispersion compensation and a focus on improving optical fiber reliability. "Fiber is now beginning to impact the lives of people". The increasing number of services available via optical fiber had provided the needed higher bandwidth capabilities both upstream and downstream. The network operators are now forced to replace copper-cable networks with optical-fiber networks to satisfy their customers. The fiber optic cables contains the optical fiber strands of pure glass, thinner than a human hair but carries huge digital signals up to long distances with faster speed, most reliable and without any interference or limitations. The fiber optic cable requirements increasing day-by-day due to the growing demand of more and more bandwidth to cover the triple play services. Triple play means Voice, Video and Data. This was further possible with dense wavelength division multiplexing (DWDM) technology networks. DWDM has drastically increased the capacity of optical transmission systems. DWDM is an optical technology used to optimize bandwidth over the fiber optic backbones. DWDM collects data from all sources together on the optical fiber with each signal carried at the same time on its own light wavelength. DWDM enables one fiber to be transformed into multiple virtual fibers by a process called multiplexing. Each channel in a fiber carries a time division multiplexed (TDM) signal. The DWDM based networks can transmit data bit rates between 100MB/s and 2.5GB/s or more. Today the internet is becoming a replacement for television for cable and for satellite. "The world has come to the internet for the last 10 to 15 years but the true broadband visual video internet is now just starting". "It's changing the nature of internet traffic; greatly change the volume of network traffic and it will mostly be enabled by FTTH solution - The final fiber future".

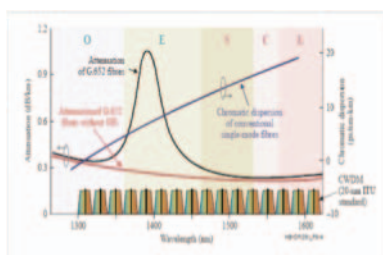
“The world has come to the internet for the last 10 to 15 years but the true broadband visual video internet is now just starting..!”

Challenges in coming days will be more and more bandwidth required for more services such as HDTV (Smart TV) / Video-On-Demand (VOD) / Video games / online storage / surveillance camera and online photo sharing. “A solid infrastructure is that, which is suitable for your current needs, as well as accommodating both anticipated and un-anticipating needs for the future”. “The future belongs to those countries that satisfy the broadband customer’s need for speed and make it happen on a wide scale”. “This drive now will never slow down, and this is the consumer appetite for ever-higher bandwidth” fiber network is the only future solution.



New Trends in Optical Fiber Business

Optical Fibers – The cable cut-off wavelength is around 1260nm. The fibers with low or zero water-peak at 1385nm allows the utilization of E-Band (1360-1460nm) for operation and allows the entire wavelength ranges from 1260nm (O-Band) to 1625nm (L-Band) for future proof usage of huge bandwidth requirements. The U-Band has been exclusively for maintenance purpose. Transmission of traffic-bearing signals is not currently foreseen in this band and fiber loss is not ensured in U-band. See Band table and Wavelength graph as below;



Band	Description	Range (nm)
O-Band	Original	1260 to 1360
E-Band	Extended	1360 to 1460
S-Band	Short wavelength	1460 to 1530
C-Band	Conventional	1530 to 1565
L-Band	Long wavelength	1565 to 1625
U-Band	Ultra-Long wavelength	1625 to 1675

The Ultra-Low-Loss (ULL) fiber is a new invention in the single mode optical fibers with the attenuations value range from 0.28-0.31dB/km at 1310nm and 0.17-0.18dB/km at 1550nm. On the other side, the latest improved bending performance fiber complying to ITU-T G.657A/B with low values of macro-bending losses at very low bend radii and pre-dominantly intended for in-building use are the new innovations in fiber history.

Micro Fiber Optic Cables – In order to have a smaller, faster and better ways of installation, optical fiber micro cables were discovered to directly blow in the pre-installed duct pipes. This was possible with the discovery of ITU-T G.657 compliant fibers which offered a reduced micro and macro bending performance and compliant to G.652D fibers. This new fibers complying to G.657 allows fiber cable manufacturers to produce smaller diameter and reduced weight cables and temperature change effects are minimized due to improved micro-bending fiber performance. (For example; during winters the cable contracts due to cold temperature and this induces micro-bending problems inside the cable but this problem was solved with G.657 fibers). This brings a new change in the fiber optic cables by reducing the 12 fiber tube to 1.6mm or lower and thereby reducing the cable diameters. This reduced cable diameters allows the micro ducts and blowing process. The micro cables are blown up to 4 km in less than 60 minutes.

Mini-trench technique for Fiber Optic Cable Laying – Mini-trench technique development as recommended by ITU-T has resulted in a new solution in which all phases of duct/cable laying are simultaneous. The enhanced mini-trench allows one to operate with smaller machinery on narrow roads, producing a lower quantity of waste material and thereby reducing operating expense. In order to execute the mini-trench (width 5mm x depth 30mm) technique, a new digging technology can be used, characterized by the simultaneous use of a trench saw and a suction pump, by rapid excavation, and by the use of a very fast hardening material to fill-in the trench. Trench width may vary according to the cable diameter to be laid.



“It’s changing the nature of internet traffic; greatly change the volume of network traffic and it will mostly be enabled by FTTH solution – The final future”

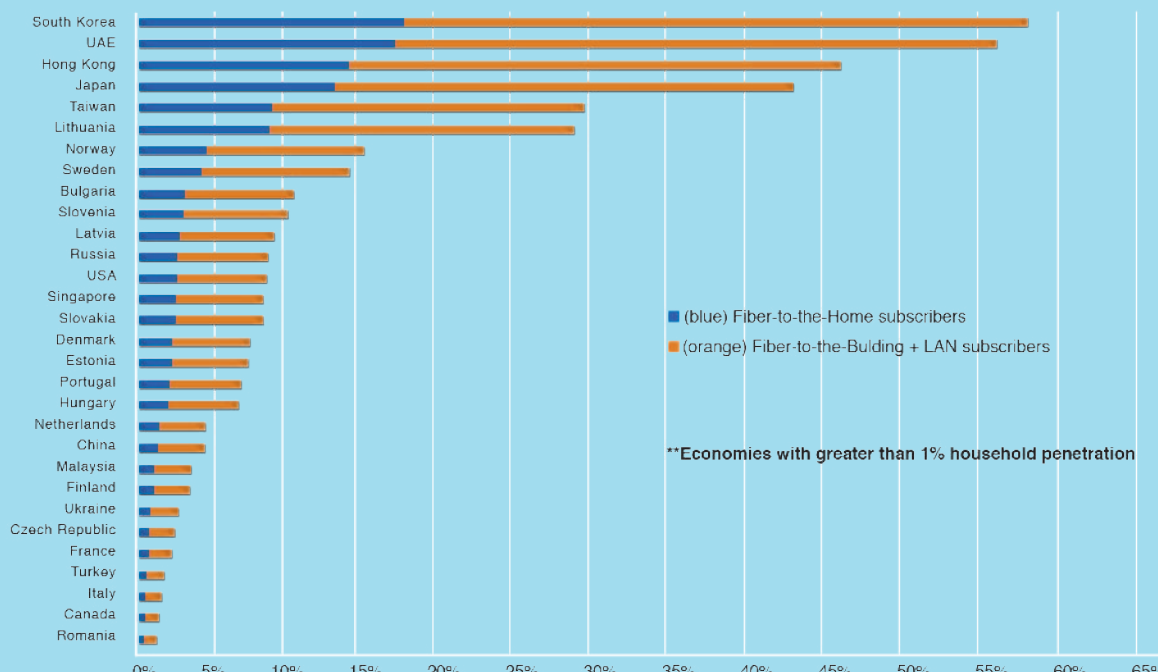
Air Blown Fiber Technology – This is a new technology for the fiber optic cable installation in pre-installed micro-ducts with the help of compressed air passing over the entire length of the cable thereby dragging the cable into the micro-ducts. The air blown fiber technology had become the preferred installation method who value reliability, cost effectiveness and flexibility. The development of air blown technology has revolutionized the design of fiber optic products, resulting in a new generation of mini/micro fiber optic cables that are lesser in diameter and weights.

Fiber-To-The-X (FTTx) – Fiber-to-the-X; “X” can be Home or Building or Curb or Node etc. It all depends on the distance between the optical fiber and the end user. The FTTH means fiber-to-the-Home, FTTB means fiber-to-the-Building and then copper cable, FTTC means Fiber-to-the-Curb and then copper cable (Curb means copper cable connected in less than 300m from the building), FTTN means Fiber-to-the-Node (Node means copper cable connected in more than 300m from the building). There are some more versions used like FTTA means Fiber-to-the-Antenna and so on but the purpose of fiber is the high bandwidth and to improved infrastructure.

Time is not far away when all homes will be directly connected to fiber cable. The FTTH deployment as per the FTTH council states that UAE has the maximum number of FTTH subscribers (Above 55% of the household penetration). Telecommunication companies are realizing the fact that the future lies in fiber-to-the-home projects as this is the only choice to upgrade the subscriber connections. Service providers are now committed to invest billions of dollars to connecting millions of homes with fiber in the near future. We need fiber-to-the-home to secure the economic security in the worldwide market to enable us to compete better with the rest of the world and also this issue is related to improving the quality of people’s life style. FTTH can deliver the full benefit of fiber when the barriers are broken and there are no limits to speed and capacity.

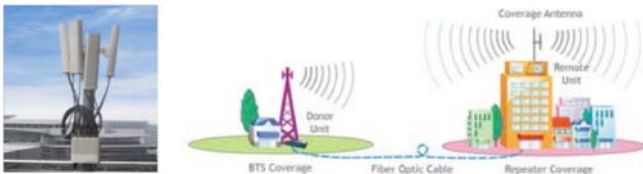
Fiber-To-The-Wireless (FTTW) – Today’s users of mobile devices depends of wireless connections for their voice, data and even video communications. It’s all about radio waves and frequencies. FTTW is the solution; since cell phones and cell-phone radio towers send packets of information carrying voice, data like e-mails, web pages, music files or streaming video like YouTube, Facebook, Twitter etc.

Economies* with the Highest Penetration of Fiber-to-the-Home/Building + LAN



“This drive now will never slow down, and this is the consumer appetite for ever-higher bandwidth”

These wireless carrying data depends on fiber for the communication backbone and increasingly the connection to the wireless antennas, no matter what kinds of wireless we use. “Wireless is not completely wire-less”. Wireless coverage is with a source which is sending the radio wave but the source is then connected with a wire either copper or fiber like at home the wireless routers are installed and the same way the mobile wireless signals are coming from Radio cellular Towers are then connected to the coax cable or fiber optic cables but due to high air traffic, the old copper cables are being replaced by optical fibers.



Why Fiber?

– Fiber is the better choice due to many different factors in landline or wireless transmission:

Speed: The fastest transmission speed known so far on earth over 100Gbps which is more than 100 times faster than today's broadband. **Bandwidth:** Large carrying capacity (Un-countable).

Distance: Signals for long distances do not need repeaters and low loss. **Maintenance:** Fiber optic cables, if kept properly do not require any maintenance compared to traditional copper cables.

No Interference: No interference from any kind of radiation or cross-talk problem, only clear signal because of light transmission.

Conclusion: Fiber infrastructure are future secured open network better service which attracts the customers, service providers for the added values and high capacity service.

Who can be benefitted?

– It is well known fact that, Fiber optic network supports various fields. Some examples: **Telecom Service Provider:** Telecom service providers use fiber optic network to give better service to the customers. **Military:** Military requires secure and reliable network and sometimes requires non-metallic cables for secret fast to hit the targets by sending light signals only to avoid interference from electric or magnetic fields and protect from the enemy leaking any secret information. **Police:** Police department needs to keep records of criminals available immediately as and when required and in some countries police is keeping a record of all persons living in a country including pictures, figure-prints and can detect easily with the help of fast internet service. **Transportation:** CCTV's are now very commonly used in cities which can track the incidents on all the roads at one place and re-route the emergency service immediately with the help of high speed fiber optic cables. **Housing/Municipalities:** Fiber optic cables are now pre-installed by default in the new homes/buildings considering the FTTx services to satisfy customers for future considerations and better life style. **Utility Companies:** Utility companies such as gas, water and electricity use fiber optic cable with the normal line as it save the installation cost, one time digging only and can be used for internal communication or renting the spare capacity to service providers. Fiber optic cables are also useful to detect the temperature sensitive areas or locate the fault position as fiber optic cables can detect the fault position accurately.

Common Man: Common man is getting all above better options, such as high speed internet/high definition TV (Smart TV)/video-on-demand etc either through wireless or with wire with the support of fiber optic cable. Fiber optic network directly or in-directly serves all your day-to-day requirements. **Finally** the fiber cables had many benefits and all cannot be put on this paper but in short it is helping us to make our life better, easier, faster.

Thermoplastic, High Heat-resistant, Nylon coated (THHN)



"THHN wire has grown in popularity since it is a cost effective alternative compared to other types of building wire. For indoor and outdoor applications where longevity is valued, THHN wire provides the peace of mind that contractors and homeowners demand"

What is THHN?

THHN Wire is abbreviation for Thermoplastic High Heat-Resistant Nylon coated wire and is classified under the hook-up wire. This type of wire is used in almost every residential and commercial structure.

THHN Wire can come in standard or solid conductors depending on the size. It is made up of aluminum and copper and has a cover of PVC insulation. Many manufacturers also apply it with a layer of nylon jacket to survive in hotter and colder locations. This wire is used in building structures and also used in the control circuit wiring, machine tools and some other appliances. thhn wire can't be used in all electrical devices because of the smoke it causes when burnt and this smoke can overheat the equipment and can be harmful.





THHN wire an excellent choice for controlling outdoor factors that would otherwise alter the performance of wire cable

Types

THHN: Thermoplastic High Heat resistant Nylon coated 105 °C dry locations

THWN: Thermoplastic High Water resistant Nylon coated 75 °C wet locations.

TFFN: Thermoplastic Flexible Fixture Wire Nylon coated.AWM: Appliance Wire Material.

MTW: Machine Tool Wire.

Applications & Usage

THHN Wire is utilized in the construction of almost every industrial, residential and commercial building. It is generally used to carry electrical current to all external uses of power in a building or dwelling. THHN wire may also be used for wiring of machine tools, control circuits or on certain appliances.

Why THHN?

- THHN building wire has several main distinctions compared to other building wire products.
- THHN uses a thinner PVC insulation which is a key factor in terms of its electrical properties.
This thinner insulation can often lead to a current leakage and even a break down during chemical or environmental exposure.
- THHN is not a very flexible product due to its nylon coating. This can often be a factor for many contractors or end users since there is usually a preference to use a product that saves energy and time during installation.
- When it comes to integrating THHN wire into your project, it is important to understand that THHN is UL listed with a rated 90 degrees Celsius in dry locations or 75 degrees Celsius in wet applications with a THWN rating. The majority of THHN wire carries a dual rating on the cable marked THHN / THWN for both the wet and dry temperature rating.
- Cost Effectiveness: THHN wire has grown in popularity since it is a cost effective alternative compared to other types of building wire. For indoor and outdoor applications where longevity is valued, THHN wire provides the peace of mind that contractors and homeowners demand. Because THHN wire is UL approved for permanent installation, it is commonly used in

new construction and a variety of other projects where the wire will not need to be removed. This saves money at all levels of the construction process, from initial purchase through service invoice. These characteristics make THHN wire an excellent choice for controlling outdoor factors that would otherwise alter the performance of wire cable. For end users, this means greater flexibility for applications like push-button stations, fire alarm controls, and temperature control systems. The PVC insulation in THHN also creates a toxic smoke when burned therefore making it undesirable in certain applications.

Construction

Conductor: Bare copper, aluminum, Soft Drawn

Insulation: PVC

Jacket: NYLON

Standards

- **UL 83 :** Underwriters laboratories thermoplastic insulated wires & cables
- **UL 1581:** Underwriters laboratories electrical wires, cables & flexible cords
- **UL 1063 :** Underwriters laboratories thermoplastic insulated wires & cables
- **UL 66 :** Underwriters laboratories flexible cords & fixture wire

How to Use THHN Wire

Use THHN wire when you are putting electrical circuits into your home. It's ideal for internal wall wiring to connect between the various plug sockets. It's available as tri-core and dual core, so is suitable for both wall sockets and lighting switches.

- Slide THHN wire into conduits. THHN wire is not particularly flexible; meaning that you can feed it through conduit without it bending and getting stuck inside. The conduit gives the wire extra protection.

Use THHN/THWN wire for outdoor purposes; THWN is the same as THHN, but it is also water resistant. Many manufacturers make a dual purpose wire that is clearly labeled on the outer coating.



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continuous series of successes...

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Shaping our future is not just an emotional statement, for us it means the need for change, perpetual innovation, communication, restructuring and integration. Having this in mind, Elsewedy friends club is working to transform potentialities into actualities, and integrating the essence of this philosophy to face whatever exciting challenges coming ahead.

Solving our customers' toughest challenges is the core of our business; we communicate with members, know their needs and provide all needed requirements in harmonized interaction.

The impressive success of spools new shape campaign reflected the deep relationship between our company and Elsewedy friends club members'. As a second step we introduced the 50 meters air coil indoor wires to enrich our market portfolio and satisfy all market segments. This new product is expected to increase our market share and fortify customers' loyalty.



Elsewedy Friends Club members' conviction along with our distributors, traders, contactors & electricians help and aspiration is the main motivator for our success.

Our plan for this year is to target the retail market with impressive mass media campaign. The aim of the coming campaign is to help our customers to differentiate between our products and other fake products available intensively in the local market.



“Developed for you”

With the increasing demand for Elsewedy Electric products and our leading market position, it wasn't an easy decision to change our packaging. We took this important step as we believe that the company should continuously update and improve its products and packages to meet the latest international standards. We have developed a new package for all indoor wires with the aim of exceeding customers' expectations. New packages have better performance, empower durability and easy handing over. We have invented very simple way to differentiate between various types and sizes of indoor wires. The new packaging came to life after a deep market study that helped us to know exactly what the drawbacks of our old packages are and create a new one that is close to perfection. Our campaign slogan is “developed for you”, this slogan is indicating that our customers' deserve safe products with highest quality and standards.

**It was developed
for your care..**



Easier
Sustainable

Affordable & Easy to use

Affordable & Easy to use

50

**Select from variety
of alternatives
according to
your needs**



100 meters, 50 meters

“Select from a variety of alternatives according to your needs”

To be ultimately satisfied with a product with no extra cost, to execute your work with the right amount of material, to do your job without additional unneeded effort, we have developed many alternative choices to best suit your specific need. As we always care about our customers and we endlessly try to create products that match various needs, Elsewedy Electric has increased its product line to accommodate the “50 meters air coil indoor wire” that matches infinite requirements.

“Original VS Fake products”

We ultimately care about our customers, that's why we decided to clarify the difference between the original Elsewedy indoor wires and other fake products. This is done by producing a clear mass media campaign that provides customers with all information enabling them to spot our original products with the use of “weights cards” available at all of our main distributors and authoritative traders. These “weight cards” has the specific weights of every indoor wire package, the customer should know the exact weight of the needed package and then verify it on a scale, if it doesn't has the same weight provided then it is for sure a fake product. The campaign also states that buyers should look for Elsewedy hologram, printed massage distance 28cm and the copper purity degree 99.99% to verify authenticity.

Measure Your Coil



NOW

Weight your coil,
Ensure the original Products

Measure Your Coil



ELSEWEDY
ELECTRIC
AFRICA 25

MARKET INSIGHT

Tanzania plans to invest a total US\$ 598 million in new natural gas-powered electricity plants

Tanzania Energy and Minerals minister stated that Tanzania plans to invest a total of \$598 million in new natural gas-powered electricity plants in 2012/13. The east African country also aims to raise the royalty charged on the gas from the present 12.5 percent to an unspecified amount. The country, fast becoming an energy hub in the region, hopes to build two gas-powered plants to produce a total 390 megawatts of power.

Sudan's 360 MW Kajbar hydropower scheme to proceed

The Sudan government is determined to go ahead with the construction of the Kajbar hydroelectric project on the River Nile. The project will generate some 360 MW and will require the relocation of 12 villages on the river's banks. The project is seen as important in facilitating heavy industrial activity in the area. The implementation of the Kajbar project will start only after the process of compensation and resettlement is completed.



Nigeria **needs US\$ 15- 20 billion of investment over the next three years to buy and develop electricity assets**

It has been reported that Nigeria needs \$15-\$20 billion of investment over the next three years to buy and develop electricity assets, Bureau of Public Enterprises (BPE).

Saudi Arabia **aims high in solar power generation**

The Kingdom of Saudi Arabia has announced an ambitious goal of reaching 41GW of solar power generation capacity by 2032 (25GW of concentrated solar power (CSP) and 16GW of Photovoltaic (PV). A 9GW wind energy capacity is also being envisaged. Building up energy generation capacity will be a major field of investment in the future.

Ghana & Japan **sign agreement for power project**

TGhana and Japan have signed an agreement worth US\$14mn for the improvement of a power project in the Brong Ahafo and Northern Region of the West African country. The agreement for the Power Distribution System project was signed in Accra by Ghana's foreign affairs minister Hanna Tetteh and Japanese Ambassador to Ghana Naoto Nikai. Improving distribution of electricity will help reduce poverty and will go a long way to improve the quality of medical care and raise educational standards. The project will motivate local people to engage in small and medium-sized businesses that require use of electricity and also promote local industries.

Malawi & China **have signed two energy deals worth US\$667.233mn that would facilitate enhanced electricity generation in the East African nation**

The African Development Bank has approved a \$348 million loan for Ethiopia and Kenya to finance a cross-border power line, the second phase of a \$1.26 billion project to help improve power supply, according to a Reuters report.

UAE **Dubai to invest \$5.5m in solar park**

Dubai's state-owned aluminum producer, has announced plans to introduce a number of new energy-saving measures which include a spend of \$5.5m in the new 10MW, \$3.3bn Sheikh Mohammad Solar Energy Park launched in February last year.

The company said that although its primary aluminium smelter has its own captive power station and is self-sufficient in terms of energy, it will embark on a number of projects to improve its energy efficiency in line with the Dubai Integrated Energy Strategy 2030. It will also get involved in a feasibility study looking at the introduction of a clean coal-fired power station. Abdulla Kalban, president and CEO of Dubal, said: "At DUBAL, we are acutely aware of our corporate responsibilities towards the environment and society.

Rwanda **Electricity Connections to Increase By 70 Percent in 2017**

The national electricity supplier, Energy, Water and Sanitation Authority (EWSA) has set a target of 1.4 million electricity connections by 2017.

The anticipated raise represents a 70 per cent increase in electricity connections, currently at 304,800. This comes as more projects to generate more power are being put in place. According to the parastatal, more 28 megawatts are expected to be loaded on to the national grid in 2013 which represents an increment of 20 per cent. The project is jointly funded by the EXIM Bank of India and the Government of Rwanda. The EXIM Bank contributed US\$80m, while government has pooled \$17m to the project. The Mukungwa II Hydro project, which caters for Gikondo, Remera, Musanze and Ntaruka, and currently produces 12MW, will be boosted to increase its capacity, according to the official.

Ethiopia **AfDB Approves New Funds for Ethiopia-Kenya Power Project**

The African Development Bank (AfDB) has approved a loan agreement amounting US\$115 million to finance the construction of a cross-border electricity highway running between Ethiopia and Kenya. A member of the Karo tribe by the Omo River in Ethiopia. Three hydropower dams are planned - there are fears that the resulting



scarcity could lead to violent conflict (Getty). According to a press release issued by AfDB, the loan agreements were signed in Nairobi by Gabriel Negatu, AfDB's East Africa regional director, and Kenya's finance minister, Robinson Githae.

The US\$1.26 billion Ethiopia-Kenya power line project is a 1,068km high-voltage transmission line with a power transfer capacity of up to 2,000MW.

Upon completion, the project will promote power, economic trading and regional integration further contributing to the Eastern Africa Power Pool (EAPP) countries' social and economic development, and thereby playing tremendous roles in alleviating poverty across countries of the region. This project will facilitate export of surplus power from Ethiopia to Kenya and therefore increase power supply in the country. The project will position Ethiopia as the main powerhouse and Kenya as the main hub for power trade in the East African region.

The project which is co-funded by the World Bank; the French Development Agency; and by the governments of Ethiopia and Kenya will ultimately connect power grids of five East African countries, namely Kenya, Rwanda, Uganda, Burundi and the Democratic Republic of Congo.

South Africa **Uncertain energy security in SA drives exploration of alternative energy**

South Africa is caught in the middle of an energy balancing act, where reserve margins are low, compared to the global recommended level of 15%. This low margin is due to energy supply not meeting energy demand. The situation of uncertain energy security is driving industry to find alternative energy sources, to maintain and enhance competitiveness. Analysis from Frost & Sullivan finds that the renewable energy landscape, specifically wind turbine and solar photovoltaic (PV) technologies, are becoming more affordable when compared to rising fossil fuel costs. Generators are also playing an increasing role in the advancement of energy security, especially for smaller- and medium-sized industries. One of the biggest challenges will be the pioneering status of alternative energy initiatives in South Africa. Many, if not all, are greenfield projects such as concentrated solar power (CSP) projects, solar PV farms and wind farms. Therefore, teething problems in the form of policy development, obtaining financing and grid-connection are expected. Fur-

thermore, South Africa has a strong legacy of coal usage. Industry participants, therefore, need to investigate alternatives to coal, by not accepting the status quo (coal-fired power plants) as the only option. As with any move towards a new technology direction, there is a learning period which needs to be factored in.

South Africa's **PIC Commits Over \$67 Million for Renewables**

The Public Investment Corp., a wholly-owned government entity, plans to directly participate in South Africa's future renewable energy projects. The financier is currently involved with two projects being developed by SunEdison that will have a capacity of 30 MW and 28 MW. The schemes are expected to be commissioned in 2014. General Manager for the PIC's Isibaya Fund Roy Rajdhar said that half of the \$1.35 billion set aside would be allocated toward renewable energy projects which included the Industrial Development Corp.'s green bonds.

Kenya **going into solar**

Kenya Electricity Generating Company (KenGen), Kenya's largest power producer, plans to begin building its first solar-power plants in 2013, producing as much as 150 MW at a cost of about US\$300 million. The plan is to start with about 10 MW of photovoltaic solar capacity connected to the grid and about 20 MW of concentrated solar power. Feasibility studies identified nine sites for solar power production, including the towns of Lamu, Garissa, Malindi, Gitaru and Magadi.

KenGen is also planning construction of wind-power plants in the northern Kenyan towns of Isiolo and Marsabit. KenGen plans to reduce its dependence on its drought sensitive hydropower to less than half within two years as geothermal production increases. KenGen will begin providing 280 MW from its Olkaria IV plant to the national grid by 2014. Production at the facility, supplemented by output from an extension to Olkaria I, will reduce hydropower's share to 45% from the current 60%. Kenya has an installed electricity capacity of 1,600 MW, with a peak power demand of 1,500 MW growing at an average rate of 8% a year. KenGen produces 1,232 MW, while four private companies generate the balance.

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- Low smoke halogen free (LSHF) cables & wires
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19159



ELSEWEDY CABLES

Subsidiary of ELSEWEDY ELECTRIC

Unleashing news

3W Networks ranks 8th in global orientation per Dubai SME



Dubai, UAE February 14, 2012—3W Networks FZCO ranked 40th for its outstanding growth and development in the recently concluded DubaiSME 100 held at the Dubai World Trade Centre last February 2012. His Highness Sheikh Ahmad Bin Saeed Al Maktoum, Chairman of the Economic Sector Committee in Dubai, was present during the ceremony to honor the Top 100 SMEs.

3W also holds the top 8 position in the Global Orientation (Exports) criteria, proving that 3W is a global leader in providing integrated turnkey telecommunications, safety and security solutions and services for the energy, transport and telecom industries.

The ranking is based on financial indicators, innovation, international orientation, human capital development and corporate excellence. DubaiSME, established by the Department of Economic Development in Dubai, is part of the various initiatives aimed at promoting entrepreneurship and developing SMEs.

The Top 100 was launched to identify outstanding SME performance and potential, encourage SME role models to share best

practices, market the capabilities of Dubai's SMEs to regional and global investors and inspire other emerging SMEs.

"I congratulate the first batch of DubaiSME 100 companies who have demonstrated the willingness and capabilities to be evaluated under the DubaiSME 100 model. They have shown commendable performance and vision for growth and development," said His Excellency Sami Al Qamzi, Director General of DED, who was also present during the ceremony.

3W Networks, established in 2001 and with offices in nine countries, is the largest telecommunications, safety and security systems integrator operating in the Middle East, Africa and Asia Pacific regions providing turnkey solutions for energy, transport and telecom industries. The company offers the most comprehensive system and product portfolios ranging from transmission and radio communications to voice and data networks including cabling and network management.



Elsewedy and Arab Contractors act together for The Egyptian Ministry of Electricity emergency plan



Elsewedy Group has negotiated a proposal with the Ministry of Electricity about taking a part of the emergency plan that the ministry intends to implement early next year. Elsewedy Group secured approvals on \$900 million to finance the plan, dedicating \$300 million for each of the three sites; El Seyouf, Damanhour and El Mahmodiya.

The group's chairman Eng. Ahmed Elsewedy highlighted that Elsewedy Electric has made such offer by forming an alliance with Arab Contractors. The proposal is about construction of electricity units in Egypt through civil work contracts. Eng. Ahmed Elsewedy also noted that the company has already agreed with General Electric to buy three gas units at 125MW as to be ready for installation after signing the contract.

3W Networks bags SME Advisor Stars of Business Award 2011



3W Networks, the region's Premier Telecommunications and Security Systems Integrator, was recently awarded the SME Stars of Business Award 2011

for ICT Support and Services at a ceremony held at Jumeirah Beach Hotel. Walid Gamali, Chairman and CEO of 3W Networks, was present to receive the award.

Sponsored by SME Advisor Magazine, the annual event is aimed at recognizing regional businesses excelling in their respective categories, thereby encouraging the best practices in the industry. For this year, the awards received 3,800 nominations for 26 categories. 3W Networks was also shortlisted for five other categories including Business Star of the Year and Best Technology Implementation.

"We are proud and honored to receive this prestigious award, which is a recognition of our commitment to serving the telecommunication needs of our customers in the region," Walid Gamali said. "Over a short span of just over 10 years, we have come a long way and are now recognized as the leading player in providing Integrated Telecommunication, Safety and Security Solutions to the Energy, Transport and Telecom sectors."

2011 has been a rewarding year for 3W Networks. The company won the prestigious Dubai Chamber of Commerce CSR Award in September and has also been recognized as a GCC100 and Arabia500 Fast Growth Company ranking ninth in the UAE. This award is yet another milestone in the company's history.

"ELSEWEDY ELECTRIC, the Regional Strategic Partner of the 4th General Conference of Arab Union of Electricity and Exhibition"

Elsewedy Electric, the leading integrated energy solutions provider in the MENA region is proud to announce its Regional Strategic Partnership of the 4th General Conference of the Arab Union of Electricity and Exhibition organized by Qatar General Electricity and Water Cooperation KAHRAMAA. Elsewedy Electric has been present in Qatar since 2006. This presence has given us the opportunity to be a part of many innovative and unique projects both within the private and public sector. In the public sector, we have successfully executed a number of prestigious projects for KAHRAMAA within their plan to provide Qatar with an extensive Electrical Transmission and Distribution network of infrastructure in line with Qatar National Vision 2030.

With an eye focused on the future, KAHRAMAA takes part in organizing many important events concerning Electrical infrastructure



in the Arab world. We as Elsewedy Electric recognize the importance of this event and are committed to providing our full support to both the Arab Union of Electricity and KAHRAMAA.

This event will not only gather all participants present in the Arab region, it will also shed light on important issues present in the subject of Electrical Power.

Elsewedy Electric believes in the importance of corporate responsibility, specifically in the field of exchanging knowledge, expertise and discussions. There are many topics of interest that will be covered in this conference including: the restructuring of the Electricity sector in the Arab world and the encouragement of investment in the Electricity sector through IPP projects. We would like to thank KAHRAMAA for allowing us to be the regional strategic partner of this prestigious event as it is a great honor for us to take part in such a beneficial initiative.



ELSEWEDY ELECTRIC and The Arab Contractors “Osman Ahmed Osman and Co.” Joint Venture Awarded an EPC Contract in Iraq for Power Generation Valued at USD 169 Million.

Elsewedy Electric (SWDY.CA on the Egyptian stock exchange) the leading Wire & Cable and Integrated Energy Solution Provider in the Middle East and Africa, through one of its subsidiaries, announces the signing of a US\$ 169 Million contract in Iraq with the Iraqi Ministry of Electricity to build and operate a new power plant in ALDIWANIYA, with four 125 MW General Electric gas turbines frame 9E.

The gas-fired 500 megawatt power project is located 23km east of AL-DIWANIYA city and shall be completed in 18-months on EPC (Engineering, Procurement and Construction)

basis and does not include the supply of the four GE gas turbines that have been already purchased by the government of Iraq from General Electric in a megadeal consists of 56 gas turbines in 2008. Elsewedy Electric's scope of work includes design, procurement and installation of all balance of plant in addition to the erection and testing of the GE gas turbines. In addition, Elsewedy Electric will be



Eng. Osman Elshemy, the Board Member of The Arab Contractors Co., Dr. Osama Elhusseiny, Chairman of The Arab Contractors Co., Eng. Karim Aftan, the Iraqi Minister of Electricity, Eng. Salam Kazaz, the Deputy Minister, Eng. Wael Hamdy, Elsewedy Electric Vice President – POWER and Eng. Hesham Hegazy, the Director of Business Development of Power System Projects (PSP) which is the EPC arm of Elsewedy Electric in power generation projects.

responsible for the spare parts and six months of operation and maintenance after the completion of the project. The Arab Contractors will be responsible for all the civil, construction and site utilities for the project. Iraq, holder of the world's fifth-largest oil reserves, is struggling to raise power supplies, which are currently at about 7,500 megawatts, or half of its domestic demand of about 15,000 megawatts.

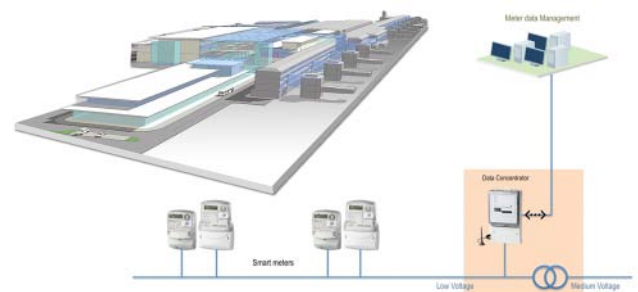
This project is a further testament to Elsewedy Electric's commitment to meeting the needs of the Iraqi power sector, which is in need of substantial

investment in power generation, transmission and distribution. Elsewedy Electric is well-established in the Iraqi market as a holder of a sizable market shares in the cables and transformers supply. Elsewedy Electric first office in Iraq was opened in 2006 in Erbil and afterwards more subsidiaries of Elsewedy Electric were established in Iraq.

Manchester Airport successfully adopts Iskraemeco smart metering solution

Iskraemeco successfully implemented the first part of migration to smart metering at one of the busiest airports in UK - Manchester Airport. Smart meters, based on PLC communication, combined with Iskraemeco software, SEP2W, now enable accurate and transparent billing that forms the basis for efficient energy management. An airport is an important intersection point and a vast operational system where keeping up with the latest technology is of extreme importance to ensure smooth operation of everyday activities. This applies also to energy management processes where numerous benefits of smart metering make it the obvious choice for upgrading traditional commercial metering.

The package that Iskraemeco delivered to Manchester Airport for implementing smart metering includes data concentrators, smart meters and Iskraemeco software – SEP2W. This solution now enables a seamless flow of measurement data, better data transparency and makes sure that the airports' retail customers get properly



billed for their energy consumption. Manchester Airport now also has an efficient tool for managing their carbon reduction commitments and Corporate Social Policies.

The system based on PLC communication allows billing and energy management data to be retrieved using the established electrical cabling infrastructure. By transmitting data down the existing electrical cables, Manchester Airport was able to avoid costs of cabling installations along with a significant amount of labor time on site.

The Boston Consulting Group(BCG) is Awarding ELSEWEDY ELECTRIC The Global Challenger of the year 2013



I am delighted to communicate that BCG has named Elsewedy as a BCG Global Challengers for 2013.

The BCG Global Challengers report identifies 100 fast-globalizing companies from rapidly developing economies that drive global growth. The set of 100

Challenger companies represent some of the fastest growing and globalizing firms in their industries. Collectively, from 2008-2011, BCG Global Challengers, expanded earnings annually by 10%, grew revenues annually by 16%, and provided their shareholders with 20% annual return. We estimated that the BCG Global Challengers have added 1.4 million jobs from 2006-2011, while the S&P 500 have added almost none.

The BCG Global Challengers 2013 report spotlights the innovative business models, strategies, and challengers emerging from these rapidly developing economies.

The report highlight emerging trends in Global Challengers' business models: moving beyond simply low- cost production, increasingly competing for the rising consumer in emerging markets and exploring new frontiers of fast growth. As part of this year's theme, "Allies and Adversaries", we describe how those Global Challengers are capable of finding more even and productive partnerships with established multinationals, despite increasingly cut- throat competition.

Iskraemeco is raising the bar in non-utility projects

Vodafone, the mobile communications giant and Iskraemeco, the smart metering provider share a commitment to operate their businesses in an environmentally friendly manner. As a result, the companies joined forces in a project promoting the very



same idea by optimizing Vodafone's energy management processes in Germany. The effects brought about by cooperation can be set as an example in future endeavors in supporting sustainability policies elsewhere.

Vodafone is one of the largest and most modern telecommunications providers in Europe. Vodafone Germany, a part of the Vodafone Group, stands out from the crowd because of their declared commitment to reduce their CO2 consumption and improve their overall energy efficiency. An important step in sustainability promotion was equipping their mobile and fixed network base stations, numerous branches and offices with Iskraemeco smart electricity meters. The smart metering technology forms an important part of Vodafone's sustainability policy and has already optimized numerous electricity tariff models and achieved significant cost reductions. "Smart metering makes our energy consumption transparent and it is the basis for further effective energy efficiency measures. It is helping Vodafone to considerably reduce its power consumption. Smart metering doesn't just enhance a company's efficiency; it also reflects our strong commitment to sustainability.

Vodafone is setting an excellent example with its smart metering project," explained Hartmut Kremling, CTO at Vodafone Germany. With the installation of 24.000 smart meters, this undertaking is currently the biggest non-utility project in Germany in the field of smart metering.

Elsewedy constructs the first wind energy project in Jordan

The National Research Energy Center has signed a contract with the Spanish Company MTOI which is 90% owned by Elsewedy Electric for the supply and construction of the first pilot wind energy project.

In addition to, the supply of a research laboratory in Shoubak Area with an installed power of 1.65 Mw as the first project for wind energy applications in Jordan.



The agreement is part of the national capacity building in solar and wind energy areas which is being funded by the European Union as part of the ENPI program for renewable energy in Jordan.





Niger Ceremony - Projet fibre optique de la SONITEL pour les tronçons KONNI – ZINDER, KONNI – TAHOUA et MARADI – Frontière NIGERIA

Elsowedy Electric was assigned as main partner with SONITEL to execute a telecommunication Fiber Optic Backbone System between Konni to Zinder, Konni to Tahoua and Konni to the border of Nigeria. President Issoufou Mahamadou, Elsowedy Electric CEO Eng. Ahmed El Sewedy and a number of prominent figures from different locations around Africa attended a great ceremony on Tuesday 20th of November 2012 in Niger. This ceremony is considered one of the most successful events for Elsowedy Electric projects in Niger and was covered by different



African TV channels that broadcasted the event during the weeks that followed.

In June 29th, 2012 in Niamey, the Managing Director of SONITEL «Société Nigérienne des Télécommunications», Mr. Abdou MANI, signed with Elsowedy Electric the financing convention for the engineering, supply, installation and commissioning USD 26 Million of a Fiber Optic Cable system. The Fiber Optic Cables

were supplied from Elsowedy Fiber Optic factory in Egypt which is the largest Fiber Optic production facility in Middle East and Africa.



The unique high quality of Elsowedy Electric products and its wide experience in network projects in addition to its attractive financing terms positioned Elsowedy Electric as the selected partner by SONITEL.



Nile Basin in Egytech

Elsowedy Electric Co. – Egytech Cables Factory - hosting a delegation of engineers from Nile Basin countries accompanied by Dr. Hassan Mohammed Mahmoud Mustafa - Undersecretary and section Head of Information Technology at the Ministry of Electricity and Energy - Electricity Holding Company - Egypt.

The delegation was received by Eng. Ali Tamam - Regional Sales Director Africa - and a group of Elsowedy Electric engineers, where everyone toured the factory was able to experience the latest means and technology of manufacturing low voltage, medium, high and extra high voltage cables as well as the various manufacturing stages, also the group have been visiting the factory's lab which is considered one of the best in MENA region which achieved ISO/IEC 17025.

Meanwhile, the visitors were impressed with the accuracy and high technical skills



which are characterized by a working team of Elsowedy Cables. At the end of the tour the visitors gave special thanks to the company's management and special thanks from the Egyptian Ministry of Electricity and Energy.



ELSEWEDY ELECTRIC Involved in The Vision for the Promissing Future of South Sudan

The first National Development Project in South Sudan is an Integrated Energy Solutions project and one of Elsewedy's projects that cover most of the African countries.



Mr. Salva Kiir Mayardit President of the Republic of South Sudan

Elsewedy is responsible for building a power station, transmission lines, supplying & installation of meters, and building a network in Sudan main cities (Juba, Awel, Kowajok and Toreet).

The first National Development Project is the most important project that the company executes in this field and it is the backbone for all the development projects in South Sudan. Elsewedy Company hopes to be a partner in all further coming development projects in Sudan.

We at Elsewedy do our best to find Sudanese electrical specialists in order to give them training in our Egyptian factories with the help of the Ministry of Electricity in Egypt.



Eng. Ahmed El Sewedy is eagerly willing to help in developing the country of South Sudan through collaboration in those power and development projects.

South Sudan can secure a brighter future – one that is not tarnished by poverty or stunted opportunities for its population.

After 20 years of civil war and struggle on the part of the people of South Sudan, it seemed clear that foreign governments, NGOs, the GoSS and private corporate are interested in spending vast sums of money in developing the country's basic services. For the future of this young country, we sincerely hope that the coming years will be filled with prosperity and peace.



Strategic MILESTONES

EGYPT



220KV Ansaldo-Power Station

Project description: Building 4 turbine to generate 500 megawatt

Scope of work: Supply and installation of cable system (Cables & Accessories) between turbines and GIS stage



220KV New Damietta -Power station

Project description: Building 4 turbine to generate 500 megawatt

Scope of work: Supply and installation of cable system (Cables + Accessories) between turbines and GIS stage.



El Ain El Sokhna 2x650 MW Supercritical Thermal Power Plant

Project description: Water Treatment & Desalination Plant CP-111

Scope of work: PSP has been awarded by Veolia Water to perform all the Mechanical & Electrical Installation works within the Water Treatment Package including but not limited to multiple effect distillation with thermal vapor compression (MED-TVC) type desalination plant including 100% capacity evaporators trains each of 4000m³/day, demineralized water system, two condensate polisher systems, complete circulating water hypochlorite generation, storage and injection system and water final pH adjustment system with all appurtenances and auxiliary equipment.

Suez 1 x 650 MW Thermal Power Plant

Project description: Steam Turbines Generators & Condensers CP-106.

Scope of work: PSP as Alstom subcontractor is carrying out all aspects for the design and supply of power cables, I & C cabling, cables accessories, conduits, raceways for steam turbines & marshaling interface parameters. In addition to, cables, cables accessories, conduits, raceways interconnection between Alstom and owner's equipment. Also, PSP is responsible for the installation supervision, testing and commissioning.





Banha 1 x 750 MW Combined Cycle Power Station

Project description: Contact Package for Mechanical Equipment/ Pipe installation CP-118

Scope of work: PSP was selected by Hitachi to be its On-Shore Office Facility, perform the project management, engineering, procurement of the fire protection systems, instrumentation, control systems, piping, fittings and valves in addition to the logistics services



EL Nour & Moheet Zaghlol pumping Station

Project description: Automation and Control

Scope of work: PSP is the contractor in charge of the engineering, commissioning and startup of the two pumping stations Control System.

Emaar Project

Project description: Emaar Misr awarded Iskraemeco the project of supply and installation of Advanced Metering Management System (AMMs) smart meters in both Marassi (North Coast) and Up Town Cairo in the heart of Mokattam, projects include supply, installation and commissioning of:

Scope of work:

- 1,600 Energy smart meters in "Marassi" as a startup phase up to 2,000
- 400 Energy Smart Meters in "Up Town" as a startup phase up to 5,000
- Metering Data Management system (MDMs)
- Billing System
- Integration and support for remote reading and automated system control

Giza North 1750 MW Combined Cycle Power Plant, Module III

Owner: Cairo Electricity Production Co.

Project description: Contract Package for Electrical Equipment/ Instrument Installation, CP-117

Scope of work: PSP has been awarded to perform the design, fabricate, supply, deliver to site, supervise, train, perform the testing, commissioning, start up place into successful operation and maintain until taking over and acceptance certificate protection system for main set up transformer and auxiliary transformer, cables raceways, test equipment, DC system and instrumentation, through the consortium of Electrotharwat & EGYTECH (Elsewedy).

Kafr elzayat S/S 500 KV

Company: Siemens

Client: EETC

Consultant: Engineering Power System EPS

Quantity: 12+2 string 500 KV

North Giza Power Plant 500 KV

Company: Conisys (Shaker Group) + Hyundai

Client: CEPC

Consultant: PGESCO

Quantity: 310 Disc Insulators.

Rehabilitation for 66 KV network in Egypt

Company: EETC

Quantity: 370,000 Disc Insulators

UAE



GASCO's Mirfa-Ruwais Nitrogen Pipeline Project

Project description: Alsa Engineering & Construction Co. LLC is building a 75 km long, 16 inch pipeline to provide gaseous nitrogen distribution network inside the Ruwais Industrial Area nitrogen pipeline from Mirfa to Ruwais in the Emirate of Abu Dhabi, UAE for Abu Dhabi Gas Industries (GASCO). This 16 inch pipeline will provide a gaseous nitrogen distribution network inside the Ruwais Industrial Area and is part of the Habshan Oil Field Injection Project.

Scope of work: 3W Networks, has been awarded the Telecom package for the Mirfa-Ruwais Nitrogen Pipeline project. 3W Networks scope of work includes the Project Management, Detailed Design & Engineering, Procurement, Integration, Factory Acceptance Test (FAT), Installation and Commissioning of the Telecommunication network.

ADMA OPCO Umm Lulu and Al Nasr Field Development Project

Project description: Abu Dhabi Marine Operating Company (ADMA-OPCO) is developing two offshore oil fields, Umm Lulu and Al

Nasr. These fields will be developed in two phases. The early production project Phase-1 of the Nasr & Umm Lulu Field Development Projects includes four wellhead towers and a manifold tower platform, connecting bridges and associated sub-sea pipelines.

Scope of work: 3W will be providing the complete telecoms and security system package for this project. Project Management, Detailed Design and Engineering, Procurement, Integration, FAT, Installation, Commissioning and SAT of the Telephone System, CCTV, Access Control, Public Address, Ethernet LAN and UHF Radio.

3W Networks to implement EPC for ADCO Bu Hasa Shuaiba Unit H North Project Telecom Scope

Dubai, UAE December 18, 2011 – 3W Networks FZE was awarded the telecom scope of work for Bu Hasa Shuaiba Unit “H” North Water Injection Enhancement Project for Abu Dhabi Company for Onshore Oil Operations (ADCO).

Per contract, 3W Networks will handle the project management, detailed engineering, procurement, integration, factory acceptance test, installation, commissioning and site acceptance test of and for SDH/PDH, distribution frames, rectifiers and telephones for five of the nine water injection clusters involved in the enhancement project. The objective of the project is to increase the water injection capacity in Shuaiba Unit “H” North and solve the pressure depletion in the area. The enhancement also aims to render pressure support to the inactive wells and help maintain the sustainable production capacity. “We are appreciative that Sicon Oil and Gas SpA decided to go with our advanced and cost-effective solutions after careful evaluation of the bids. The award of this project further validates 3W Networks’ position as the telecommunications systems integrator of choice in the region,” CEO Walid Gamali said.

3W Networks, established in 2001 and with offices in nine countries, is the largest telecommunications, safety and security systems integrator operating in the Middle East, Africa and Asia Pacific regions providing turnkey solutions for energy, transport and telecom industries. The company offers the most comprehensive system and product portfolios ranging from transmission and radio communications to voice and data networks including cabling and network management.

3W Networks wins telecom EPC contract for ADCO Bida Al Qemzan Field Development Project

Dubai, UAE December 15, 2011 — 3W Networks FZE was awarded the telecom scope of work for Abu Dhabi Company for Onshore Oil Operations (ADCO) Bida Al Qemzan Field Development Project. Per contract, 3W Networks will handle the project management, site survey and radio coverage study, detailed engineering, procurement, integration, factory acceptance test, installation, commissioning, site acceptance test and training of and for SDH, point-to-multipoint wireless broadband, trunked radio, PABX, CCTV, PAGA, structured cabling and UPS systems.

The objective of the development is to achieve a production capacity of 20,000 barrels per day (b/d) by the end of the third quarter of 2012. The project is a split of the whole works for the Bida Al Qemzan, Ruwais, Qusahwira & Bab Fields Development Project, which ultimately aims to increase production capacity in the mentioned onshore oil fields to 1.8 million b/d from 1.4 million b/d.

“We are pleased to be awarded the telecom EPC contract for Bida Al Qemzan field. This is an expression of confidence in our system integration expertise and our ability to deliver turnkey solutions for mission critical communications such as required by ADCO.

We are certain that our involvement will significantly contribute to achieving the objective of this project,” 3W Networks CEO Walid Gamali said.

3W Networks, established in 2001 and with offices in nine countries, is the largest telecommunications, safety and security systems integrator operating in the Middle East, Africa and Asia Pacific regions providing turnkey solutions for energy, transport and telecom industries. The company offers the most comprehensive system and product portfolios ranging from transmission and radio communications to voice and data networks including cabling and network management.

Dubai Airport project & several small projects

Client name: Siemens UAE

Bid type: E-Auction

Scope of Work: Flexible and Stranded LV and control cables

Value: 5.4 Millions USD

KSA



3W MMG wins telecom EPC contract for KFUP Construction of B03 Building Project in Al Hassa

Al Hassa, KSA May 6, 2012 — 3W MMG was awarded the telecom scope of work in the construction of B03 Building Project for King Faisal University (KFU) in Al Hassa. It is aimed at developing and modernizing the university's educational facilities.

Per contract, 3W MMG will handle the project management, engineering, procurement, integration, FAT, installation, commissioning and SAT of and for data network, CCTV, access control, PAVA, master clock and various audio and video systems including video conferencing.

“We highly value that after thorough evaluation of the bids, Abdullah A.M. Alkhodari Sons Co. found our integrated turnkey solutions cost-effective and best fit for this project. This is an expression of confidence in our expertise as a global telecom, safety and security systems integrator. Our involvement will significantly contribute to achieving the project objectives. It is our first time working with Abdullah A.M. Alkhodari Sons and we look forward to developing a strong relationship with them,” 3W Networks CEO Walid Gamali said.

About 3W MMG 3W MMG is a joint venture between 3W Networks, the largest telecom and security systems integrator operating in the



Middle East, Africa and Asia Pacific regions, and Mohamed Al Moji Group. The focus of the company is to provide a full range of communications, safety and security solutions to the growing KSA and GCC market. 3W MMG is headquartered in Dammam, Saudi Arabia.

Saudi Electric Company (SEC) Tender for MV Cables Accessories (Joints, Terminations & Elbows)

Project description: Contract for 2 Year Supply of Cable Accessories (Joints, Terminations and Elbows).

Scope of Work: Supply of MV (Joints, Terminations and Elbows)

IRAQ



ENI Project

Elsewedy has succeeded in being a part of the \$18billion ENI investment in the Zubair oilfield in Iraq by supplying a part of the low voltage cables that will be installed in this big project.



MALAYSIA



Manjung 4 Supercritical Power Plant, Malaysia

Project Description: DCS Package

Scope of work: PSP is carrying out the basic engineering of the Distributed Control System (DCS) of the plant under ALSTOM supervision.

PAKISTAN



DESCON Pakistan's Wind Park

Client name: ABB Pakistan

Value: 1 Million USD

Scope of Work: Armored and non armored MV Aluminum cable

UCH Power plant 220 KV in Pakistan

Company: ABB Germany + Hyundai

Quantity: 2700 Disc Insulator.

ITALY



FOSTER WHEELER ITALIANA S.r.l Project

Elsewedy Electric have signed a contract for the supply of low voltage armored and lead coated cables for our client FOSTER WHEELER ITALIANA S.r.l for a project that belongs to Exxon Mobil in the south of Italy.



ALGERIA



Project Name: AIN DEFLA

Project: Supply & Install of 30 KV underground cables for a route 7km Length

Client: ELSEWEDY CABLES

Value of Project: 24,974,000 DZD

Project Name: WAHRAN

Project: Supply & Install of 30 KV underground cables for a route 3km Length

Client: SONELGAZ

Value of Project: 9,077,769 DZD

Project Name: MASCARA1

Project: Supply and Install of 30 KV O.H.T.L for a route 19 KM

Client: SONELGAZ

Value of Project: 24,974,000 DZD

Project Name: MASCARA2

Project: Supply and install of 5 Poste DP

Client: SONELGAZ

Value of Project: 15,350,000 DZD

Project Name: M'SILA

Project: Installation of 12 Km Fiber Optic Cable

Client: SONELGAZ KDT

Value of Project: 42,198,692 DZD

SOUTH AFRICA



Medupi 6x800 MW supercritical coal power plant - South Africa

Project description: DCS Package

Scope of work: PSP was selected by Alstom to perform the Engineering of the Distributed Control System (DCS) for the power plant, water treatment plant and condensate polishing Plant (CPP)



ZAMBIA



Infrastructure OHL 66 KV in Zambia (Chambeshi / Nedeke, Chambeshi / Mwambashi, Mwambashi / New Scaw)

Company: EET&D

Client: ZESCO

Quantity: 7072 Disc Insulators

CAMEROON



Cameroon 40MW Diesel fired Power Plant



Project description: Supply of Electrical Spare parts for Ebolowa, Bamenda & Mbalmayo

Scope of work: PSP is awarded by the Cameroon Ministry of Energy and Water Resources to supply all the electrical spare parts for Ebolowa, Bamenda & Mbalmayo power plants.

KENYA



El Sewedy Electric Signs with Kenya Power Co. the Supply of 5,000 tons of overhead conductors

Project description: Elsewedy Electric signed a contract to Supply, Store and Transport overhead conductors. This is one the biggest contracts in East Africa. Elsewedy Electric team in Egypt has worked relentlessly to be awarded this contract, and will even work harder to execute it flawlessly; supplying the required materials as well as facilitating the supply chain of this vital order.



Meanwhile Elsewedy Electric team in Egypt is working aggressively to replicate this success story with Kenya Power and extend the cooperation within different energy sectors. The team has all the intent and strong desire to maintain the highest degree of customer satisfaction using the severest, and up-to-date, quality assurance and quality control measures.

Scope of Work: Supplying overhead conductors – 5,000 tons – and starting delivery of the 1st shipment.

Disc Insulator Anti Pollution type up to 160 KN

Extended History of Experiences

"Our New 500KV Disk Insulator supplied to

- Kafir El Zayat S/S 500KV for EETC*
- North Giza Power Plant Interconnection 500KV for CEPC"*

500 KV

Serving Electrical Network



ECMEI



Subsidiary of ELSEWEDY ELECTRIC



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19159

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Extended History of Experiences..

HV Substation

PSP introduces complete turnkey solutions including engineering, procurement, installation, testing & commissioning of AIS/GIS substations up to EHV of 500kV covering the extension of existing substations.

Electrical and instrumentation of HRSG & Boilers

PSP scope covers the complete electrical & instrumentation works in terms of detailed engineering, supply and installation required for Mechanical systems, especially for Heat Recovery Steam Generators (HRSGs) where the scope includes various services.

Mechanical Balance of Plant

PSP works on high challenges in the field of Mechanical Construction with in-house quality assurance program that have been demonstrated and approved by both the American Society of Mechanical Engineers (ASME) and the national board of Boilers and Pressure Vessel inspectors.

Automation & Control

PSP introduces an Automation department specialized in the field of Distributed Control Systems (DCS), Substation Control Systems (SCS) and SCADA. This offers a comprehensive range of services for the control systems for the power, water and industrial sectors, Engineering and design up to commissioning and startup.

Special Manufacturing

Manufacturing processes are taking place according to codes and standards to achieve the integration strategy of PSP to produce the following products

- Isolated Phase Bus (IPB)
- Tanks & Pressure Vessels
- Steel Structure
- Panel Assembly



Sales Office
10/A /4 Takseem El Laselky, New Maadi, Cairo-Egypt
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19159

www.elsewedy.com

PSP
POWER SYSTEM PROJECTS

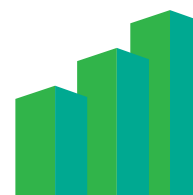
Subsidiary of ELSEWEDY ELECTRIC

INVESTORS' Updates



STOCK INFORMATION

- **INCORPORATION:** Egypt
- **SECTOR:** Industrial Manufacturing
- **INDEX:** EGX 30
- **FULL LISTING:** The Egyptian Exchange (SWDY.CA)
- **ISSUED SHARES:** 223,418,000 shares
- **FREE FLOAT:** 27%
- **SHARE PRICE:** (13th Jun, 2013) 18.75 LE.
- **MARKET CAPITALIZATION:** 4.189 Billion EGP



Q4 2012 versus Q4 2011

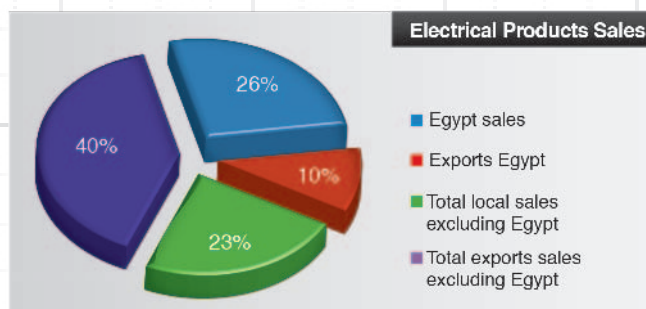
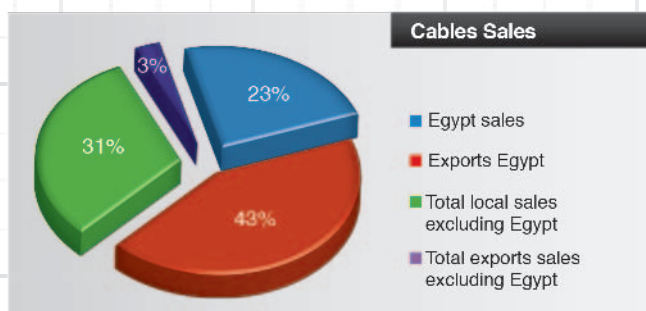
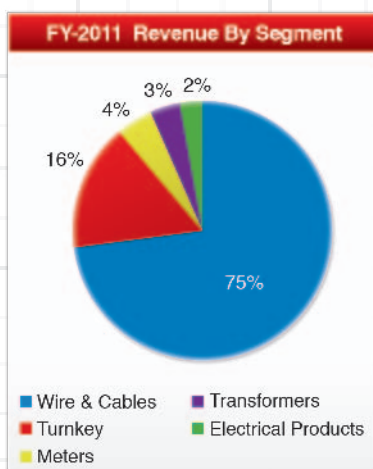
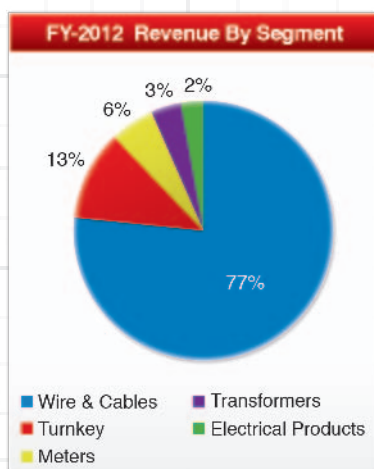
- Consolidated Revenues in Q4 2012 increased by 7% to reach EGP 4.1 billion versus EGP 3.8 billion in Q4 2011.
- Gross Profit in Q4 2012 increased by 29% to reach EGP 473 million versus EGP 366 million in Q4 2011.
- EBITDA in Q4 2012 decreased by 1% to reach EGP 205 million versus EGP 207 million in Q4 2011.



REVENUE BY SEGMENT

EGP (000)'s

Segment	Q4-2012	Q4-2011	%	FY-2012	FY-2011	%
Wire & Cables	3,050,628	2,852,030	7%	11,118,284	11,306,128	-2%
Turn Key Projects	607,082	650,470	-7%	1,880,070	2,524,617	-26%
Meters	222,856	194,409	15%	836,843	630,302	33%
Transformers	95,715	56,387	70%	388,235	482,194	-19%
Other electrical products	73,917	46,153	60%	288,875	225,964	28%
Total	4,050,199	3,799,450	7%	14,512,307	15,169,204	-4%



We continue to operate in a very challenging environment. Whilst the performance of the Wire and Cables segment was reasonably positive we encountered another difficult quarter in both the Turnkey and the Transformers segment. Fortunately the Meters results were extremely positive and exceeded our initial expectations.

Our Wire and Cables segment saw a pickup in gross profit on the back of an improvement in Algeria, Saudi Arabia and Sudan. In addition, the supply of HV cables picked up during the first 9 months of this year versus 9 months 2011. The Turnkey results during the third quarter was one of our worst performances thus far. We continued to have delays in the opening of LC's in Africa. Even with the disappointing performance of this segment I remain optimistic for the outlook on this sector for next year given the solid backlog that we have. We have seen a marked improvement in the installation and supply of HV cables both in the local and export markets. However even with this increase in the HV cables, the delay in the opening of the LC's in relation to several of the Africa projects in addition to the cyclicity of this business resulted in the underperformance of this segment. The transformers segment was also disappointing this quarter. Whilst the Syrian operations have been reduced significantly and Nigeria also underperformed, the main bottleneck was the Egyptian operations. The main issue that was encountered in Egyptian was a combination of delays in deliveries and inspections. We expect to start supplying again during Q4 2012 and into 2013. On a positive note, the Meters performed extremely well and exceeded our expectations. In addition to a significant increase in revenues, margins also improved on the back of a reduction in the sales of the electromechanical meters and an increase in sales of the system meters.

We are also on track with the Libyan 60 MW wind project. The second shipment of turbines was delivered to Libya in October of this year and we are aiming to complete this project by mid 2014 assuming the situation in Libya remains as is or improves from the current situation

Ahmed Elsewedy
President & CEO
ELSEWEDY ELECRI



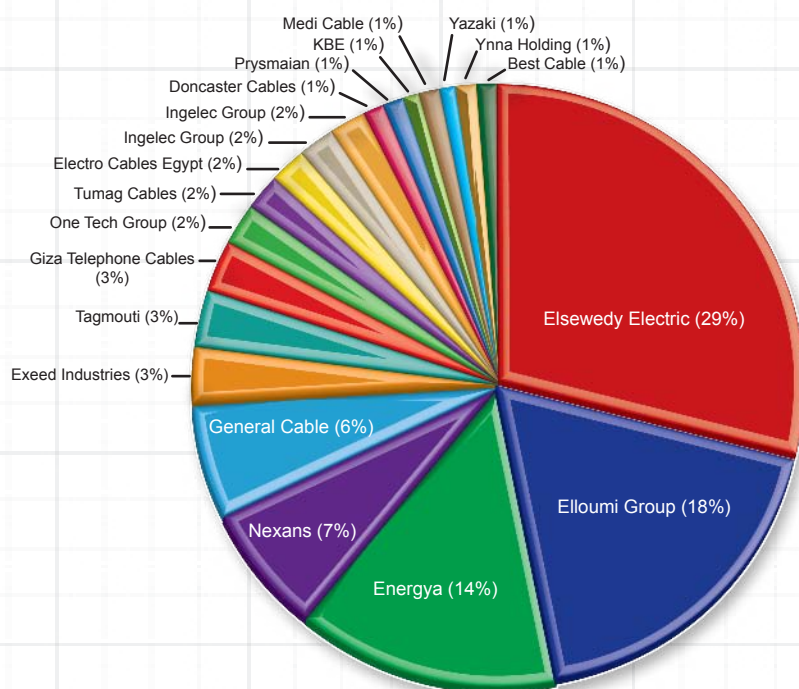
Elsewedy Electric Consolidated Financial Statement (Income Statement)

EGP (000)'s

L.E.	FY-2012	FY-2011	Q4-2012	Q4-2011
Sales				
Wires & Cables	11,118,283,671	11,306,127,679	3,050,628,461	2,852,029,947
Electrical Products	1,513,953,044	1,338,459,408	392,487,744	296,949,559
Turnkey Projects	1,880,070,432	2,524,616,623	607,082,389	650,470,333
Total Sales	14,512,307,147	15,169,203,711	4,050,198,594	3,799,449,840
COGS	(12,672,143,938)	(13,257,512,379)	(3,577,011,781)	(3,433,063,329)
Gross Profit	1,840,163,209	1,911,691,332	473,186,813	366,386,511
Gross Profit Margin	12.7%	12.6%	11.7%	9.6%
SG & A	(973,720,780)	(900,599,128)	(301,333,150)	(260,640,861)
Other Operating Income	1,513,953,044	1,338,459,408	392,487,744	296,949,559
Other Operating Expense	(184,735,494)	(42,641,793)	(83,496,077)	(14,896,323)
Other Operating Income/ (Expenses)	(121,239,490)	43,069,439	(49,017,326)	13,510,422
EBITDA	1,073,919,551	1,384,827,512	204,908,430	207,323,849
EBITDA Margin	7.4%	9.1%	5.1%	5.5%
Depreciation	(328,716,611)	(330,665,869)	(82,072,093)	(88,067,776)
Fx Gain / (Loss)	(96,847,851)	(110,732,805)	(3,250,834)	(32,983,695)
Provisions	(41,617,456)	730,814	(39,463,923)	(8,156,411)
EBIT	606,737,632	944,159,652	80,121,581	78,115,966
Interest Expense	(426,460,972)	(371,671,108)	(93,585,471)	(112,283,936)
Interest Income	48,048,786	61,193,380	1,708,877	23,247,648
Interest Income / (Expenses)	(378,412,186)	(310,477,728)	(91,876,594)	(89,036,288)
EBT	228,325,446	633,681,924	(11,755,012)	(10,920,322)
Tax	(82,389,733)	(97,134,033)	(21,406,855)	(11,981,714)
Net Income	145,935,713	536,547,891	(33,161,867)	(22,902,036)
Minority Interest	(29,394,891)	(27,429,195)	(15,381,411)	3,701,670
Net Income After Minority Interest	116,540,822	509,118,697	(48,543,278)	(19,200,366)

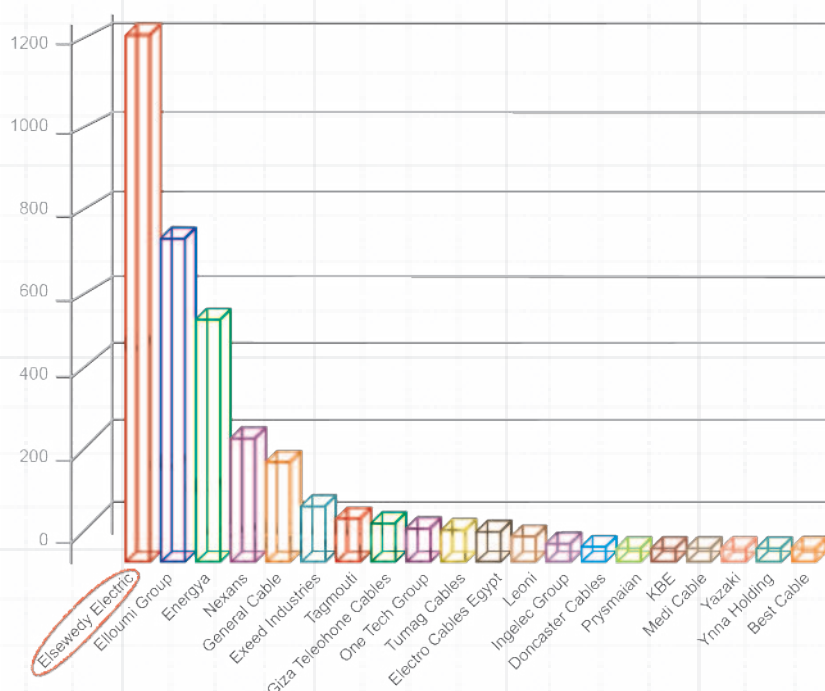
North Africa Wires & Cables Production Market Share

North Africa Market Share 2012



ELSEWEDY ELECTRIC
IS RANKED **No.1**
WITH A VALUE
1,196 M. USD REPRESENTING **29%** MARKET SHARE OVER THE NORTH AFRICA CABLES AND WIRES MARKET

North Africa Wires & Cables Production 2012



ELSEWEDY ELECTRIC CABLES FACTORIES IN AFRICA

- EGYTECH CABLES
- UNITED INDUSTRIES
- ELSEWEDY CABLES EGYPT
- ELSEWEDY CABLES ALGERIA
- ELSEWEDY CABLES ETHIOPIA
- GIAD ELSEWEDY CABLES



Around The Globe

Eolica Expo Mediterranean Rome, Italy (5-7 September) 2012



Eolica Expo Mediterranean 2012 is a fair and conference about wind energy in the Mediterranean area, it took place at Rome Fair Centre. Elsewedy Electric usually participates in this exhibition along with its Italian partner Comcavi S.p.A Multimedia. For us the Italian market is considered one of the most important markets in the European territory.

Being an exhibitor at Eolica Expo Mediterranean allow Elsewedy Electric to meet the needs of all wind farms developers' by supplying them with cables, cable accessories and transformers. Elsewedy Electric, SWEG (Elsewedy Wind Energy Generation) and mTorres (for wind turbines and towers) any of the three companies could act as a partner in all projects related to wind energy.



Power and Electricity Mozambique Maputo, Mozambique (3-6 December) 2012

Elsewedy Electric has participated in Power and Electricity Mozambique exhibition to explore insights about the latest power expansion, transmission and distribution of the coming strategic projects, with the aim of developing sustainable electricity networks. We have been told about the new master plan policy and how it will impact the supply extension and development



to include a more dynamic energy mix. Elsewedy Electric has attended presentations from Honourable Minister Salvador Namburete and August de Sousa Fernando (EDM Chairman), where they discussed Africa's future energy mix powering growth as a political, economical and social imperative, taking Southern Africa's power pool into the next generation and providing an update of the planned CESUL backbone transmission project. The latest energy sector structures and national energy reforms including finance models for electricity generation, structured finance for quality power infrastructure, bankable projects, access to project finance, cross border power sharing, interconnectivity, renewable energy solutions and power pooling were also discussed.



Power & Water Middle East Abu Dhabi, UAE (8-10 October) 2012

Power and Water Middle East 2012 is held in partnership with Abu Dhabi Water & Electricity Authority (ADWEA). The exhibition is considered the region's premier showcase

of power and water related products and services.

In its 5th year, Power and Water Middle East brings companies from over 25 countries and leading industry decision makers from more than 50 countries together.

Power and Water Middle East is held in Abu Dhabi, UAE with the aim to maintain expenditure in-line with Abu Dhabi's Vision 2030 - the emirate's long term strategic infrastructure development initiative.

4th General Conference of Arab Union of Electricity and Exhibition Doha, Qatar (7 - 9 January) 2013

Elsewedy Electric is proud to have participated in the 4th General Conference of Arab Union of Electricity Exhibition as the event's Regional Strategic Partner. This conference was hosted by Qatar General Electricity and Water Cooperation KAHRA-MAA, under the patronage of H.E. Sheikh Hamad Bin Jassim Bin Jabr Al- Thani Prime

Minister and Minister of Foreign Affairs of Qatar. The conference was held from the 7th – 9th of January. H.E. Dr. Mohamed Bin Saleh Al-Sada – Minister of Energy and Industry and H.E. Sheikh Faisal Bin Qassim Al Thani inaugurated the event on the 7th of January and visited the Elsewedy Electric stand during the inauguration ceremony. The conference was very successful as it gathered a wide number of participants from the Arab region. It shed light on many important issues and innovative ideas present in the subject of Electrical Power. Many topics were covered throughout the conference including the restructuring of the Electricity sector in the Arab world and the encouragement of investment in the Electricity sector through IPP projects. Our colleague Mr. Marko Kondic – Portfolio Man-

ager at Iskraemeco successfully presented the topic: "Information overload and how to manage it in an ever changing environment".



REXEL 2012



Elsewedy Electric team presented its various products to the audience directly on the Rexel Cabling Solutions venue, with the kind assistance of cabling specialists, proving the strong relationship between the two groups.

Rexel customers and potential customers visit the stands and participate in conferences and visits. Next to the innovations, which are the goal of this trade fair, they can also discover the Rexel Service Space where we present services to facilitate business: an installer-integrator package, equipment for rent, financing, training, electronic billing, e-commerce, etc.

This is truly an "innovation fair" that allows each professional in just a few hours to meet all key players, to be informed, receive trainings as well as doing business.

Next year, Rexel trade fairs will be held in other big cities as to cover the French territory. With these events, Rexel and its partners, including Elsewedy Electric, embody "Energy in Motion" project.

In 2012, Elsewedy Electric sales team took a part in 3 professional trade fairs organized by Rexel. Rexel's unique and customized trade fairs and exhibitions are open to electricity and energy management professionals from all over the world.

Rexel's mission is to support customers around the globe, to create value and run business better, by providing a broad range of innovative products and services about automation, technical supply and energy management.

Each fair takes place in a large French city (Lyon, Dijon and Paris). Next to the stands held by Rexel's partner suppliers, which amount to over 150 stands, there are dedicated spaces where companies can present innovative solutions to facilitate energy management as well as other technologies that will ensure the technological transition of electricians towards multi-energies.

Rexel spaces allow each company, whether it is an independent electrician or a large service integration group, to be informed about: evolutions & management of tertiary

facilities, energy-efficient homes, optimized industrial processes, renewable energies, combined solutions of electricity-gas-water, wiring solutions and electrical vehicles. Professionals, whether they are contractors, manufacturers, certification organizations or technical experts, share presentations and are available for questions.

Each trade fair has a dedicated day for decision-makers, architects, consultants, research professionals and engineers to enjoy sharing information about targeted subjects.



Cast Resin **Dry** Transformers

Standards, Sincerity, Superior **Quality...**



CESI Group

- Ratings up to 10 MVA, 36 KV
- Maintenance Free
- On stock Product - Fast Delivery
- Competitive Prices
- Optional Enclosures; IP20 up to IP33
- Optional Forced Cooling (Allow up to 40% more ratings)



Maintenance services for transformers that either supplied by us or by other manufacturers.



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P.O.Box 311, New Cairo 11835, Egypt
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www.elsewedy.com

ELSEWEDY
TRANSFORMERS

Subsidiary of ELSEWEDY ELECTRIC

how to reach us..

- Head Office
- Production Facilities
- Regional Offices
- Main Export Countries

30 Production Facilities in 14 Countries
Exporting to 110 Countries Worldwide.

Colombia

Sweden
Switzerland
Belgium
United Kingdom
Germany
France
Austria
Slovenia
Spain
Morocco
Mauritania
Algeria
Libya
Ghana
Nigeria
Cameroon
Equatorial Guinea
Congo DRC
Angola
Uganda
Rwanda

Brazil

South Africa

Uruguay

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uic-magnetwires@elsewedy.com

Egyplast

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Tel.: (+2015) 411 631
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UEIC Elsewedy

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ELECTRICAL PRODUCTS

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 Fax: (+974) 44653892

WIND ENERGY GENERATION

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 Email: info@set-egypt.com

SOLAR ENERGY SOLUTIONS

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 22974404
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Sadek Elsewedy Hospital

(Legislation Association Main Hospital)



Free treatment for all Egyptians

As a part of our corporate social responsibility, Elsewedy has built and equipped the Legislation Association Main Hospital that treats all Egyptians for free. The hospital is located at Cairo/Isamelia road and has two main sections. The first section is specialized in treating patients with Cancer and the second section is for curing patients with severe burns. Both sections are equipped with the best medical apparatus and supervised by a team of professional and dedicated staff.

*We performed more than **10 thousand** radiotherapy sessions to **256** cancer patients*

Plot No. 27, 1st district, 5th Settlement, New Cairo, Cairo - Egypt
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E-mail: info@elsewedy.com
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www.elsewedy.com

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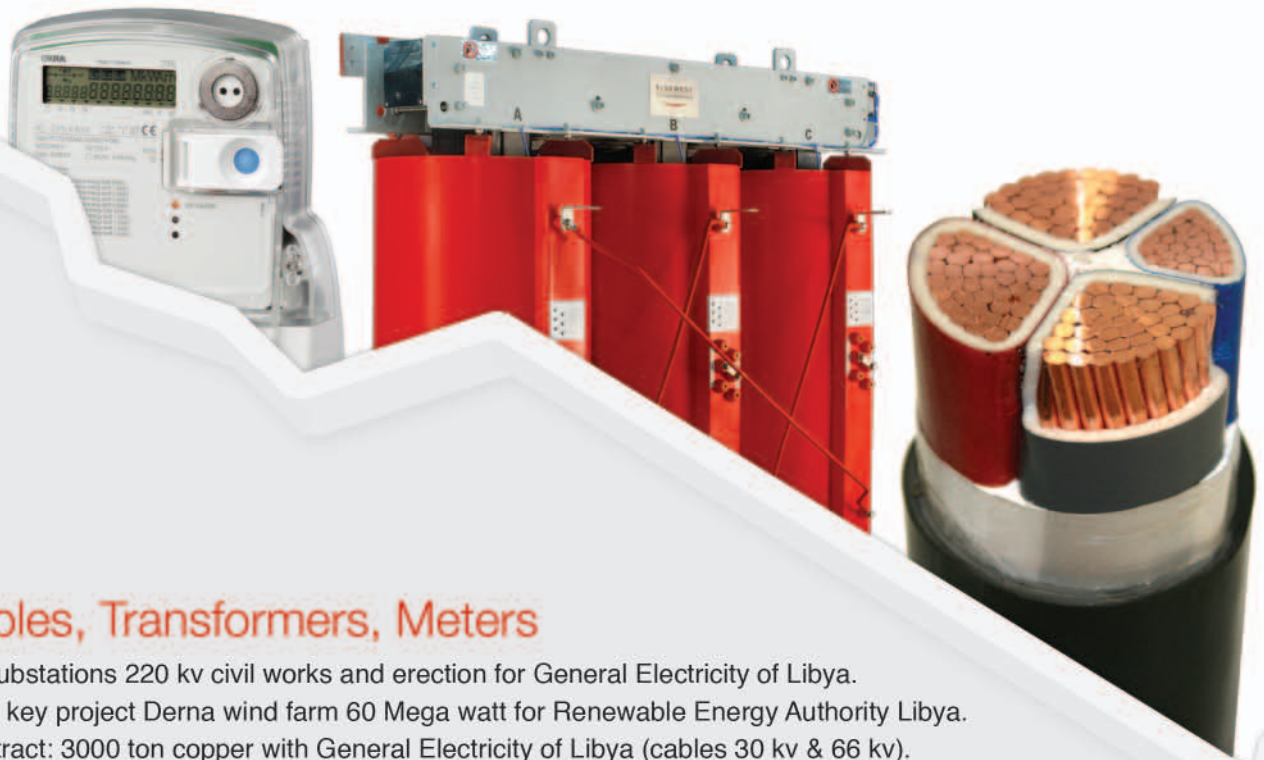
ELSEWEDY
ELECTRIC

Willing to do more...



Libya..

Inveterate History..Bright Future



Cables, Transformers, Meters

- 22 substations 220 kv civil works and erection for General Electricity of Libya.
- Turn key project Derna wind farm 60 Mega watt for Renewable Energy Authority Libya.
- Contract: 3000 ton copper with General Electricity of Libya (cables 30 kv & 66 kv).
- Contract: 700 Distribution transformers with General Electricity of Libya.
- Contract: 50 Packages substation with General Electricity of Libya.

ELSEWEDY
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