



ENERGY-LUX

Company Profile

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Index

1- Energy-Lux	2-3
1.1 who are we	2
1.2 Vision	3
1.3 Mission	3
2- Products We Offer	5-18
2.1 Distributer & MV Panles	5-8
2.2 Distribution Transformers (Oil/Dry)	9-10
2.3 Medium and low Voltage Cables	11-12
2.4 Terminals & Joints	13-14
2.5 Cable Tray and Accessories	15-16
2.6 Steel Poles and Lattice Towers	17-18
2.7 Overhead Transmission Lines	
3- Reference Projects	19-21
4- Company Contacts	22

1-Energy-Lux

1.1 Who are we?

- With over **25 years** of experience in the electrical supplementary field, Energy-Lux has established itself as a leading distributor in Egypt, collaborating with the nation's most prominent contractors.
- Our commitment to delivering **high-quality** electrical solutions has solidified our reputation as a trusted partner in the industry.
- We offer a comprehensive range of products and services tailored to meet the diverse needs of our clients, ensuring efficiency, reliability, and innovation in every project. Our dedication to excellence and customer satisfaction drives us to continually enhance our offerings and maintain our position at the forefront of the electrical supply sector in Egypt.
- At **Energy-Lux**, we pride ourselves on our professional team, extensive industry knowledge, and unwavering commitment to supporting Egypt's infrastructure development through superior electrical solutions.

1.2 Our Vision

- To be Egypt's leading provider of innovative and reliable electrical solutions, empowering infrastructure development and contributing to the nation's progress.

1.3 Our Mission

- At **Energy-Lux**, our mission is to deliver superior electrical products and services that meet the evolving needs of our clients. We are committed to building long-term partnerships with Egypt's top contractors by ensuring quality, reliability, and exceptional customer service in every project.

2-Products we offer

2.1 Distributors and MV Panels:

- **Energy-Lux** is a distributor for **ABB's medium voltage switchgear and distribution equipment**.
- We offer our clients access to some of the most advanced and reliable electrical solutions available in the market today.
- **ABB**, a global leader in electrical technologies, is renowned for its high-quality, innovative products designed to ensure safety, efficiency, and sustainability in medium voltage electrical systems. **Energy-Lux** is committed to provide exceptional service and superior product offerings tailored to the unique needs of each client.

We offer our clients:

- ***Top-tier Products***: **ABB's** medium voltage switchgear, known for its durability and cutting-edge technology, ensures long-lasting and reliable performance.
- ***Expertise and Support***: As a distributor, **Energy-Lux** provides comprehensive technical support and ongoing maintenance for all **ABB** products.
- ***Uncompromised Quality***: Both companies share a commitment to delivering quality solutions that meet the highest industry standards.

Supported Voltages:

- 11 KV
- 22 KV

Insulation type:

- Gas insulated (SF6)
- Vacuum Insulated



ABB

Compact secondary substation “CSS” :

- The CSS is an enclosure containing medium voltage (MV) switchgear, distribution transformers, low voltage (LV) switchboards, connections and auxiliary equipment to supply low voltage energy from medium voltage systems.
- These substations are typically installed in locations accessible to the public and ensure protection for all people according to specified service conditions.



Compact secondary substation compartments:

I. Transformer compartment:

Designed to house different types of distribution transformers

- Oil-immersed transformers.
- Dry-type transformers.

II. Medium voltage compartment:

- Either air or SF6 gas insulated ring main units.
- Combinations of load break switch (non-fused or fused), circuit breakers, panels, metering panels, and other are available.

III. Low voltage compartment:

- Outgoing circuit breaker ratings from 20A up to 2000A and with different numbers per substation according to customer's requirements.

2.2 Distribution Transformers:

Dry Type Transformers:

ABB's dry-type transformers are designed for high reliability and safety, offering energy-efficient solutions for a variety of industrial and commercial applications. These transformers are compact, environmentally friendly, and require minimal maintenance. With no risk of oil leaks, they are ideal for indoor installations or areas with environmental concerns. ABB's dry-type transformers are built with advanced insulation materials, ensuring long-term performance and low operational costs.



Oil Transformers:

ELMACO manufactures high-quality oil-filled transformers designed for efficient energy distribution in industrial and commercial applications. These transformers are known for their robustness, reliability, and superior performance, even in harsh environmental conditions. **ELMACO's oil transformers** use advanced insulation technology and are available in various capacities to meet the specific needs of power grids, substations, and other critical systems.



2.3 Cables and Wires:

Cables and wires are essential components in electrical systems, used for transmitting power and signals. They come in various types to suit different applications:

- **Power Cables:** Designed for the safe transmission of electricity in industrial, commercial, and residential applications.
- **Control Cables:** Used for controlling electrical systems, often in machinery and equipment.
- **Instrumentation Cables:** Designed for measuring and controlling processes in industrial plants.
- **Communication Cables:** Used for transmitting data and signals, including telephone and internet connections.
- **Low, Medium, and High Voltage Cables:** Classified based on the voltage they carry, ranging from low-voltage residential cables to high-voltage transmission lines.

Energy-Lux Supply of Cables and Wires:

- **Energy-Lux** provides our clients with premium quality cables and wires sourced from renowned brands such as **El-Sewedy** and **Energya** Industries. These brands are known for their commitment to excellence, offering durable and efficient cables that meet international standards. With **Energy-Lux**, clients can rely on superior products and expert service for all their electrical wiring needs.



ELSEWEDY
CABLES



2.4 Terminals and Joints:

- **Terminals and joints are crucial components used to connect cables and ensure efficient electrical conductivity. Their types include:**
 -
 - **Cable Terminals:** These are connectors that allow for a secure and reliable connection between a cable and a device, such as electrical panels or machinery. They come in various forms, including ring, spade, and fork terminals.
 - **Cable Joints:** Used to join two or more cables, ensuring that the electrical current flows without interruption. Types include straight joints, branching joints, and elbow joints, each designed for different configurations and environments.
 - **Heat Shrink Joints:** These provide insulation and mechanical protection for cables in jointing applications.



Energy-Lux Supply of Terminals and Joints:

- **Energy-Lux** proudly supplies high-quality terminals and joints from **Sedeco Company**, a trusted name in the industry. With a large stock in our storage area, we ensure that our clients have access to reliable and durable products for all their cable connection needs. Whether for industrial, commercial, or residential projects, Energy-Lux delivers top-notch solutions with fast availability and expert support.



2.5 Cable Trays and Accessories:

Energy-lux works with **EIC** (EL-Sewedy Industrial Group)

- All cable trays can be manufactured without perforation upon request.
- Standard length of production is 3.0 meters for hot-dip galvanized and 2.0 meters for pre-galvanized.
- Other or special dimensions are also available.



- **Surface Protection:**

- 1. Pre-galvanized:**

- Provides sufficient protection against corrosion in dry interiors (not in an aggressive environment), this also applies to the untreated cut edges.

- 2. Hot-dip galvanized:**

- Hot-dip galvanized cable trays are immersed in liquid zinc after manufacturing, so that all edges and welds are also protected against corrosion. Cut edges arising later during installation can be treated with cold zinc.

- 3. Electro-static epoxy painted:**

- Available for high aesthetic requirements or special demands with a coating especially suited to customer's purpose. Many rail colors can be used.

- It's available in:

- A) pre-galvanized & electrostatic epoxy coated.

- B) H.D.G with electrostatic epoxy coated.

2.6 Steel Poles & Lattice Towers:

- **Energy-Lux** is a proud distributor for **Incosteel** in supplying a wide range of poles, (lighting and decorative), High-Mast, tension towers, and suspension towers. These products are provided in full compliance with the specifications outlined by the Egyptian Electricity Holding Company. Through this partnership, **Energy-Lux** ensures the delivery of high-quality, durable, and reliable solutions for power distribution and transmission infrastructure, meeting the highest industry standards. Our clients benefit from both exceptional products and expert service, guaranteeing optimal performance for their projects.





3-Reference Projects

The Projects that **Energy-Lux** Supplied with their high-Quality products and Technical support.

- **El Saleheyra military Airport**

Supplied distribution transformers for the project.

- **El-Meleez Military Airport**

Supplied distribution transformers for the project.

- **Bernice Military Airport**

Supplied lighting fixtures for the project.

- **Shark El-Owaynat Military Airport**

Supplied distribution transformers for the project

- **El-Kayan El-Askary**

Supplied Cable trays for the project.

- **El-Kayan El-Askary central air conditioning station**

Supplied Cable trays for the project.

- **El-Alameen towers**

Supplied Cable trays for the project.

- **El-Sokhna Marble Factory**

Supplied distribution transformers and MV switchgear for the project.

- **Dorret El-Karz (military works)**

Supplied medium voltage cables for the project.

- **New Ismailia city**

Supplied medium voltage cables for the project.

- **El-Galala university**

Supplied cable trays for the project.

- **Mostafa Kamel hotel**

Supplied medium voltage cables for the project.

- **10th of Ramadan neighborhoods**

Supplied distribution transformers for the project.

- **Renovation of Rasheed Cornish**

Supplied lighting poles for the project.

- **UFC gym**

Supplied lighting fixtures for the project.

- **Egypt Future Project**

Supplied Steel lattice towers for the project

- **Monorail Project**

Supplied Cable Trays and accessories

- **Ibshway Water Station**

Supplisd Control Cables

- **Abu-Shanab water Station**

Supplied Power and Control Cables

- **Ezz Steel Project**

Supplied Cables

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