

**ELSEWEDY  
ELECTRIC**

Integrated Energy Solutions



# TRANSFORMERS

## FOCUS CATALOGUE





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Integrated Energy Solutions



Elsewedy Electric is a conglomerate that specializes in Infrastructure, products and solutions. We are segmented to 5 divisions:

Wire & Cable, Electrical Products, Engineering & construction, Smart Infrastructure and Infrastructure Investments.

Our founding fathers started the journey back in 1938 and we have been growing ever since to be what we are now, the biggest infrastructure solutions provider in the Middle East and Africa.

Behind our success is 15,000 professionals located in 45 countries using the latest technologies to design and engineer a

vast product portfolio and unmatched services. We strive to deliver top-quality products & services that meet our customers' expectations while adding value to the communities we serve.

## Group strategy and market opportunities

FINANCIAL STRENGTH | PRODUCT DIVERSITY | SECTOR EXPERTISE | GEOGRAPHICAL REACH

80 years ago, we started with a

clear vision to position Elsewedy Electric for successful growth, inspired by innovation, determination and spirit of hard-working staff, empowered and liberated by a strong enterprise system. Since our start, we made the decision of never compromising on quality & delivery. Our success is professional dedication with the highest quality technologies which deliver

**23**  
Giga Watts  
Total number of delivered power

**3.7k+**  
KiloMeters  
Overhead Transmission Lines

**20k+**  
KiloMeters  
Distribution Networks

**2k+**  
KiloMeters  
Communication Networks

**64+**  
Substations  
Indoor & Outdoor Substations

**25M**  
Square Meters  
Sustainable Industrial Communities



### Integrated Energy Solutions

- Wire & Cable
- Electrical Products
- Engineering & Construction
- Smart Infrastructure
- Infrastructure Investments



## Electrical Products Business Line



We manufacture a complete range of Power and Distribution transformers; Dry and Oil. Our production capacity is 12,500 MVA per year through our state-of-the-art manufacturing facilities extending through Middle East and Africa. Our electrical products portfolio also includes insulators and explosion proof products. All products are manufactured with the highest standards and are rigorously tested to meet every challenge.

## Global Presence



## About Elsewedy Transformers



Elsewedy Transformers is committed to providing customers with world-class products and services through its five factories across Egypt and Africa . We produce power transformers ranging Up to 250 MVA and up to 220 kV class including Oil immersed distribution transformers, Cast resin transformers, in addition to offering modular solutions transformer services.

testing to ensure our customers receive the superior products they've come to expect from Elsewedy Transformers. We extend to enhance our partnership with our customers covering all specific requirements and by expanding our geographical presence . We select more than one country every year to start up a new facility in order to respond properly to the local requirements.

Our five factories have a total production capability of 12,500 MVA annually including power and distribution transformers We use cutting edge processes, such as the latest magnetic field analysis, to guarantee that the core and winding design

Our competitively priced products adhere to the highest international standards subject to rigorous quality checks and highest levels of stability and efficiency.

### PRODUCT RANGE:

- Power Transformers
- Cast Resin Dry Transformers
- Oil-immersed Distribution Transformers
- Maintenance & Installation

ESTABLISHED

**2005**

EXPERIENCE

**15**  
YEARS

EMPLOYEES

**+1000**

FACILITIES

**5**

OPERATE

**5**  
COUNTRIES

EXPORT

**18**  
COUNTRIES





**CAST RESIN**  
**DRY** Transformer

# CAST RESIN DRY Transformer

## WHY ELSEWEDY DRY TYPE TRANSFORMER ?

Now Elsewedy Transformers made your dreams come true; providing:

### HEALTH & SAFETY

- Hardly inflammable, self extinguishing.
- Highly moisture-proof.
- No pollution to the environment.
- Extremely low content of burnable material.
- No content of any halogen, silicones, nitrogen in the insulation.
- Free from all restrictions that apply oil type transformers.



### FLEXIBILITY & COST SAVING

- Minimum maintenance is required.
- No liquids used ; no risk for leakage .
- Repair Possibilities ( at site ).
- Installation close to the center of major consumers
- Reduce cable costs, transmission losses and installation costs.

### DURABILITY

- Cooling is the most efficient ( up to 40% ).
- Low partial discharge, therefore, high life expectancy.
- Excellent insulation level, short circuit and lightning Impulse.
- Ability to handle greater short time overloads rather than oil type.



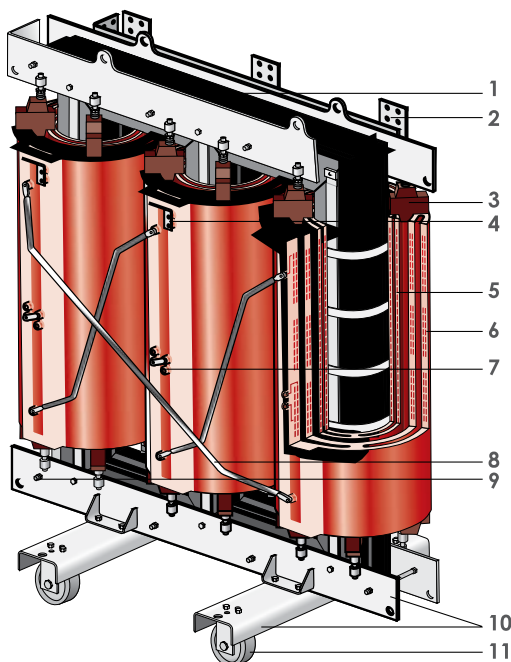


# CAST RESIN DRY transformer

## TECHNICAL SPECIFICATION

- Rated power from 50 KVA up to 15 MVA with rated voltage up to 36 KV.
- Manufactured and tested according to IEC 60076
- Test certificate for our product from KEMA, CESI
- Materials of LV& HV: Aluminum or Copper according to customer request
- Highly moisture-proof (operates up to 100% humidity)
- Insulation level Class F 155 0C and class H 1800C
- Low partial discharge ( $\leq 10$  PC)
- Classified E2, C2&F1 according to IEC 60076-11
- Optional enclosure (from IP20 up to IP44) for both indoor and outdoor application according to IEC-60529.  
The enclosures are specially designed that the heat is dissipated properly.
- Optional forced cooling up to 40% for overloading
- Dual HV winding (22-11, 11-6.6 .../ 0.4)
- Dual LV winding
- k-factor transformers
- HV winding encapsulated Caste Resin in moulds under Vacuum and Pressure
- LV Foil Windings:

- A-** Are encapsulated under Vacuum or impregnated with hot polymerized resin according to customer specifications.
- B-** High resistivity to short-circuits reduced axial and radial short-circuit forces to a minimum



## DRY TRANSFORMERS' CONSTRUCTION

1. Iron Core
2. LV Terminal
3. Fixation Support
4. HV Terminal
5. LV Coil
6. HV Coil
7. Tapping Link
8. Delta connection Rods
9. Earthing
10. Yoke Clamping and Wheelbase
11. Roller

# CAST RESIN DRY transformer

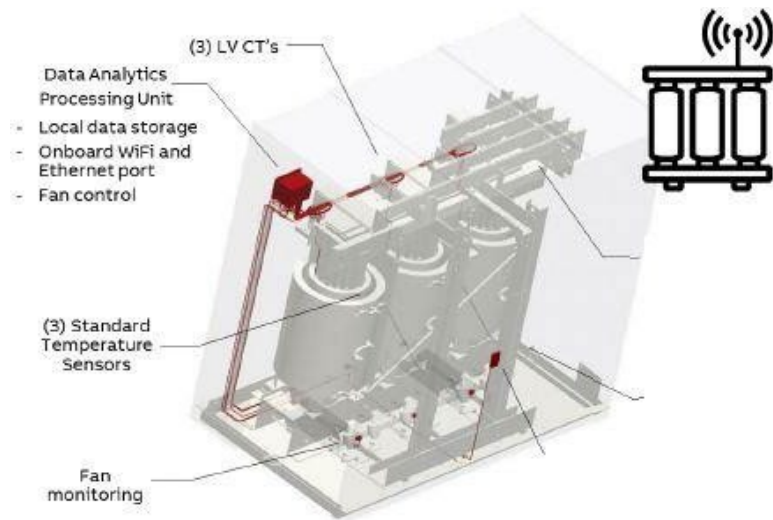
## ELSEWEDY DRY CAST RESIN SMART TRANSFORMER

### Making it easier to ensure your operations stay on

With Elsewedy smart Transformer: the operator can remotely monitor the behavior of the transformer core, windings, fan operation, power output and keeping a close watch on critical transformer components. Dynamic control of real and reactive power can optimize the efficiency of distribution systems, improve power quality in a more dynamic operating environment and limit fault current.

Elsewedy Transformer connected with thermal controller with either net Module and MODBUS RS485 can be remotely controlled with the following:

- Transformer temperature of winding
- Transformer alarm status
- Transformer trip status
- Fault of sensor connected to transformer
- Fan operation /fan fault status of transformers



# CAST RESIN DRY transformer

## TESTING & QUALITY CONTROL

- **Routine Test**
  - Measurements of Winding Resistance .
  - Measurements of Ratio and Vector group .
  - Measurements of Impedance Voltage .
  - Measurements of Load loss .
  - Measurements of No-load loss .
  - Measurements of Partial Discharge.
  - Applied Voltage Test .
  - Induced Voltage Test .
- **Type test**
  - Lightning impulse Test .
  - Temperature rise Test .
- **Special Tests**
  - Noise level Test .
  - Short-circuit Test .
  - Environmental Test.
  - Fire behavior Test .
  - Thermal shock Test .



## APPLICATIONS

Proudly serving you in the following three sectors ...



### ENERGY & INFRASTRUCTURE

- Transportation infrastructure
- Airports
- Utilities' infrastructure

### INDUSTRY

- Industrial factories
- Wind Farms
- Oil and Gas Sectors

### BUILDINGS

- Office Buildings
- Shopping Centers
- Industrial Buildings
- Hotels, Hospitals
- New Compounds and Resorts

## » Refernces ( Egypt ):

Project Name	Rated Power KVA	Rated Voltage KV	Year
The central cooling station in the new administrative capital	6300	22/3.6	2019
East Port Said Naval Base	6250	22/6.9	2019
For critical stations (Al-Dashoudi-Al-Khairy-Tarouja-Shishra)	5000	11/6	2018
Sanitary drainage lift station, south of investors	5000	22/3.3	2018
City Stars Sharm El Sheikh	2000	22/0.4	2020
Suez Canal Museum in Ismailia	1600	11/0.4	2020
Sidi Barani Hospital	1600	11/0.4	2020
Shader Azam planet	1000	11/0.4	2020
CIB Bank	1600	22/0.4	2020
The Knowledge Hub Universities Project -Phase 02-	1600	22/0.4	2020
West Town Club House	1000	22/0.4	2020
Grand Plaza Hotel	1600	22/0.4	2020
Madinaty Craft & Commercial Zone	2500	22/0.4	2019
QNB 6 October	1600	22/0.4	2019
Kattamya Mall	1600	22/0.4	2019
Madinaty Cinemas	1600	22/0.4	2019
Alamin Data Center	2000	22/0.4	2019
Archives, Banque Misr	1250	22/0.4	2019
East Town club House	1000	22/0.4	2019
East Town EDNC	1600	22/0.4	2019
Administrative Control Authority building	2000	22/0.4	2019
Alaamin Armed Forces Hotel	2000	22/0.4	2019

## » Refernces ( Egypt ):

Project Name	Rated Power KVA	Rated Voltage KV	Year
villette - D, E & F -Infra	1000	22/0.4	2019
Oncology Institute Hospital	2000	11/0.4	2019
King Salman University, Sharm El-Sheikh Branch	1600	22/0.4	2019
Tawila Island	3150	0.4/22	2019
Marsa Allam Staff Housing B11 & 10	1000	22/0.4	2019
Zewail B8	1600	22/0.4	2019
Data center - Kayan 110	2000	22/0.4	2019
Cultural Park - Sharm El Sheikh	2000	0.4/22	2019
King Salman University, Ras Sidr Branch	1000	22/0.4	2019
A project of 20 thousand housing units in the New Administrative Capital	1000	22/0.4	2019
Irrigation lift stations No. 2 and drinking water station No. 2	3150	22/0.4	2019
Egypt Shield Housing Project	1000	22/0.4	2019
Ioutas Factory	1600	11/0.4	2019
Galalah Water & Irrigation Pump Station	2000	22/0.4	2019
Hyde Park - New Cairo	1600	22/0.4	2019
Aeon Towers	1000	22/0.4	2019
Damietta Port Authority	1000	11/0.4	2019
Mansoura 3	1000	22/0.4	2019
Renovation for Stadiums	1000	11/0.4	2019
The martyrs' families building in the new administrative capital	2000	22/0.4	2019
Alexandria Electricity Distribution Company	1250	10.5/0.4	2019

## » Refernces ( Egypt ):

Project Name	Rated Power KVA	Rated Voltage KV	Year
PORT SAID PUMP STATION	3000	11/6	2019
Olympic air defense swimming pool	1000	10.5/0.4	2019
Hyper eltemsah	2500	11/0.4	2019
West El Shorouk Mall	1250	22/0.4	2019
Tanta Refreshments Factory and Qalyoub Factory	2000	11/0.4	2019
Dar Misr third stage	1000	22/0.4	2019
Al Sokhna Mall, centers company	1000	22/0.4	2019
MANSOURA 8-	2000	22/0.4	2019
Rubiki factories completion project	2500	22/0.4	2019
West Shorouk Mall, 92 thousand	1000	22/0.4	2019
MOD Building - Data Center	2000	22/0.4	2019
Maraya Marsa Alam Hotel	1000	22/0.4	2018
Lake View Residence	1000	22/0.4	2018
The Egyptian Saudi Company for Construction Secon	1000	22/0.4	2018
West El Shorouk Mall	1250	22/0.4	2018
Amexico Paradise Village, Ain Sokhna	1000	22/0.4	2018
King Salman University	1600	22/0.4	2018
International Company for the manufacture of plastics	2000	22/0.4	2018
Mohamed Ben Zayed-Army	1600	22/0.4	2018
Jarir Book Store	1000	22/0.4	2018
Hurghada Industrial Zone	1000	22/0.4	2018

## » Refernces ( Egypt ):

Project Name	Rated Power KVA	Rated Voltage KV	Year
City Center - Alex.	2500	11/0.4	2018
Development and renovation of Al-Qasr Al-Aini	1000	10.5/0.4	2018
Cycling track	1000	10.5/0.4	2018
Benisuif elsub project	2000	22/0.4	2018
Woodwork factory Rubiky factories area	2000	22/0.4	2018
Typical farm	1000	11/0.4	2018
Al Rehab Mall	2000	22/0.4	2018
QNB 6 October	1600	22/0.4	2018
Turtle Bay Utilities	2000	11/0.4	2018
Cairo Pharmaceuticals	2000	10.5/0.4	2018
Porto Port Said	1600	22/0.4	2018
El Galalah University	2500	22/0.4	2018
Japanese University	1600	22/0.4	2018
Passport building for the Police Academy in Abbasia	1600	10.5/0.4	2018
El Rehab - Beit El Watan	1250	22/0.4	2018
Bayt Al Watan neighborhoods 6 & 5	1000	22/0.4	2018
Sodic Block 41	1600	22/0.4	2018
Lake view extension	1000	22/0.4	2018
CFC DCP	2500	3.3/0.4	2018
Remote Sensing Authority Building	1600	22/0.4	2018
Al Buroj	1000	22/0.4	2018

## » Refernces ( Egypt ):

Project Name	Rated Power KVA	Rated Voltage KV	Year
Government district	1600	22/0.4	2018
Toshiba Factory	2000	11/0.4	2018
Air Defense Club in Marsa Matrouh	1000	22/0.4	2018
Abbottage Hospital	3000	10.5/0.4	2018
Tender 2018-76 North Cairo	1000	22/0.4	2018
Project 6000	2000	22/0.4	2018
Opera House - Project 5000	1600	22/0.4	2018
Assiut Super Critical Power Plant	1000	6.6/0.415	2018
Manosura Tunnel	2000	22/0.4	2018
City Stars - Food Court	1600	11/0.4	2018
Galala Resort, the hotel's coastal building	1600	22/0.4	2018
Fayed elsouab project	2000	22/0.4	2018
Mahsama1- station	3250	11/0.4	2018
Sports City in the new capital	1000	22/0.4	2018
Bir Arida Airport - Infra	1600	22/0.4	2017
New Alamein City - The Arab Contractors	1250	22/0.4	2017
Hilton Plaza Hurghada	2000	11/0.4	2017
The Choueifat Hotel	1000	22/0.4	2016
Snow City - City Stars	1600	11/0.4	2016
Beyti factory	2500	11/0.4	2016
Ahli Bank	2500	11/0.4	2016



# CAST RESIN DRY Transformer

## » Refernces ( Egypt ):

Project Name	Rated Power KVA	Rated Voltage KV	Year
Bayadeya Hospital	2000	11/0.4	2016
Bir Gifgafa Elmeliz Airbase	1000	22/0.4	2016
63 El Harby Factory for Non-ferrous Industries	3000	6.6/0.4	2016

## » Refernces ( GCC ):

Client	Scope of work	Country	Year
RTCC	Supply dry transformers 2000 KVA 13.8/0.4 KV for Alrashid Hotel	KSA	2017
Alfaneyah electro mechanical	Supply dry transformers 32X1000 KVA 13.8/0.4 KV for Serafi City Mall	KSA	2017
AL-ABDULKARIM HOLDING CO.	Supply 4x1500KVA, 2x1600m KVVA/13.8/0.4 KV for Khair Makkah Towers	KSA	2018
Elsowedy Electric Dubai	Supply Dry transformers 1x1500KVA/11/0.415 For 1500KVA DRY Distribution Transformers - (ADWEA Specs)	UAE	2018
Elsowedy Electric for Engineering Projects ( Kuwait)	Supply Dry transformers 3/1600 KVA 11/0.433 KV for Kuwait Chormica for Electrical contracting	Kuwait	2019
Al-Mashrik Contracting Company	Supply Dry transformers 1x800 KVA, 13.8/0.4 KV for KING KHALED INT AIRPORT	KSA	2019
AWEER Power Plant – DEWA	Supply Dry Transformers 4x3250KVA, 8x2500KVA, 6x1200KVA, 2x1000KVA/6.6/0.4 for AWEER Power Plant - DEWA	UAE	2019
Bin Delamah Contracting Co.	Supply Dry Transformers 9x1000 KVA, 13x630KVA, 13.8/0.4KV 12x1000KVA, 2x630KVA, 13.8/0.24KV For Jazan Port	KSA	2019
Energy Engineer EST. for Contracting	Supply Dry Transformers 2x1500 KVA, 13.8/0.4KV For Saudi Investment Bank Head Office	KSA	2020
Hesham ElSowedy Trading Co. LTD.	Supply Dry Transformers 1x1600 KVA, 13.8/0.4KV For SARED	KSA	2020
Elsowedy Electric for Engineering Projects	Supply Dry Transformers 1x1600 KVA, 11/0.433KV For Abdullah Essam for General Trading	Kuwait	2020
AL-ABDULKARIM HOLDING CO.	Supply Dry Transformers 2x400 KVA, 0.4/0.4KV For Rabigh water plant project	KSA	2020





# OIL Distribution Transformer

# Oil Distribution Transformer

Elsewedy distribution transformers are built up to 15 MVA, 36 kV with production program that covers the hermetically sealed and conservator types and Immersed in Oil Or Ester fluid.

Our portfolio covers the ground mounted, pole mounted, earthing and special transformers.

## PRODUCTS RANGE & APPLICATIONS

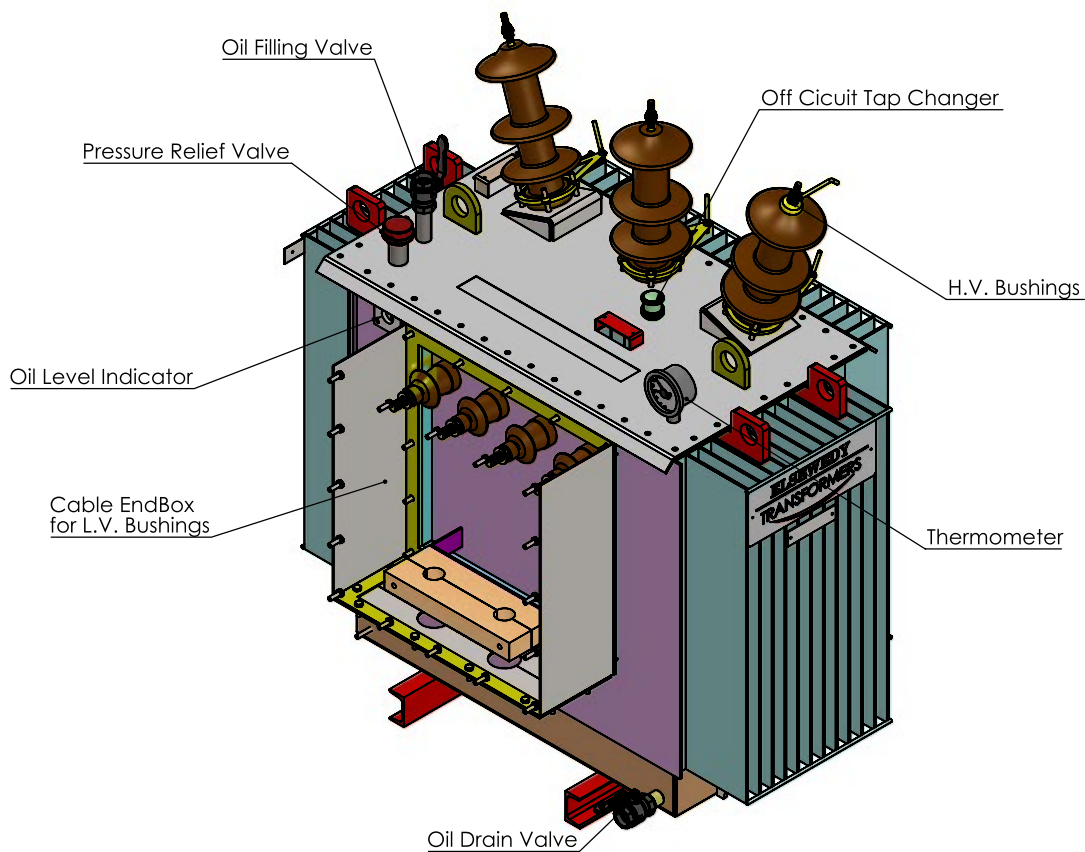
### 01. Small Distribution

#### Product Range:

50 KVA up to 250 KVA, 36 KV

#### Application

Distribution Grid - Pole mounted - Pad mounted - Auxiliary transformers



# Oil Distribution Transformer



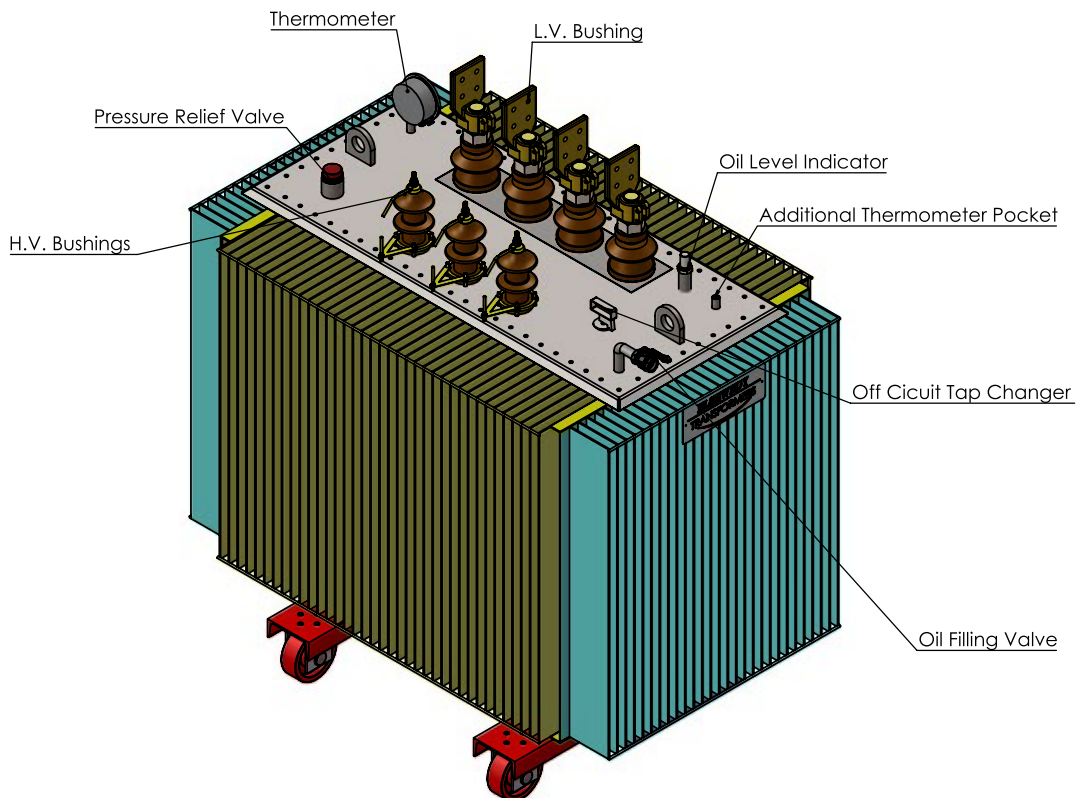
## 02. Large Distribution

### Product Range:

250 KVA up to 5,000 KVA, 36 KV

### Application

Distribution Grid – Auxiliary transformer -  
Pad mounted - Unit substation – Package substation





## 03. Medium Power

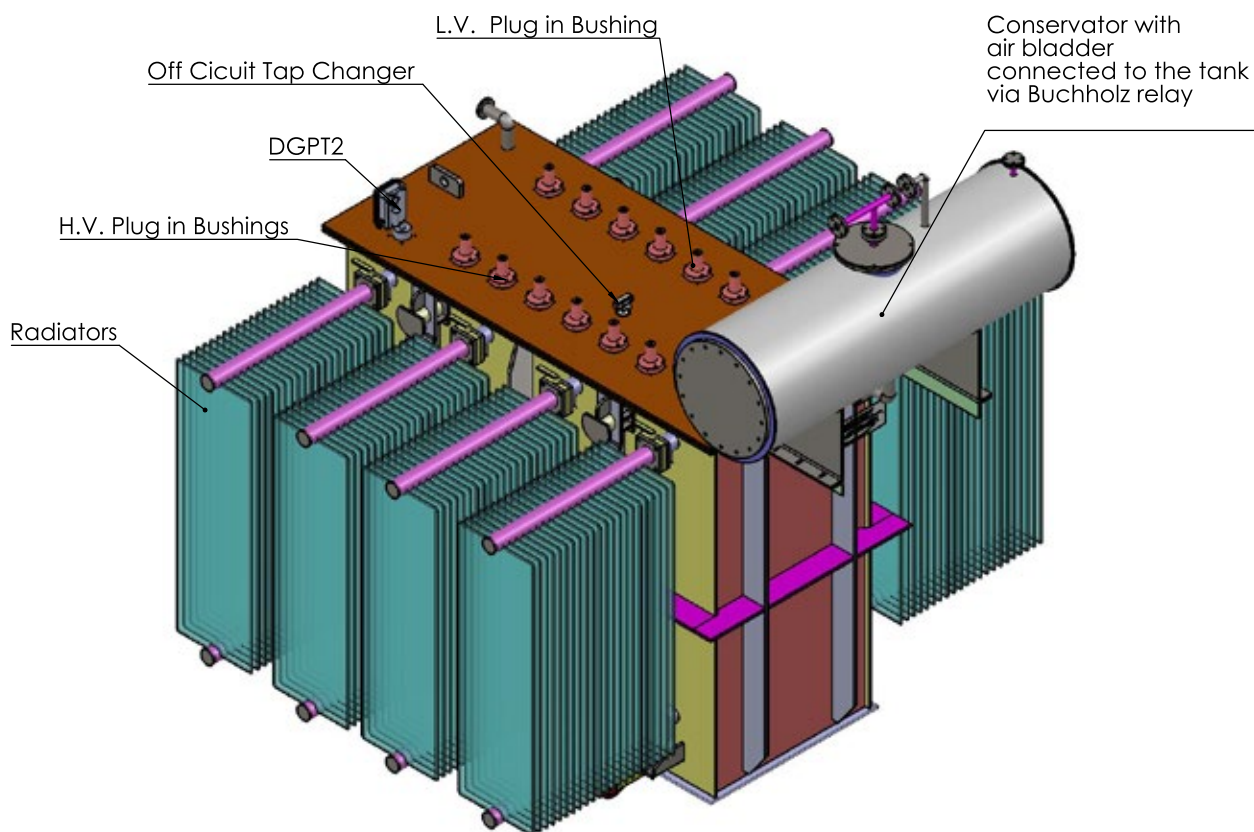
### Product Range:

5,000 KVA up to 15,000 KVA, 36 KV

### Application

Distribution Grid – Generation application

Auxiliary transformer



# Oil Distribution Transformer



## 04. Special transformers

### Product Range:

Up to 15,000 KVA, 36 KV

### Application

Solar application – Wind application – Variable speed drive application – Converter - Arc Furnace  
Traction - ZigZag Earthing – Earthing auxiliary

### » Accessories

Standard	Optional
Porcelain HV and LV bushing	Plug-In Bushing
Earthing Terminals	Cable Box
Thermometer Pocket	Neutral CT
Pressure relief valve	DGPT2
Visual oil level indicator	Dial Thermometer with 2 contact
Lifting Lugs	Oil level indicator with 2 contact
Drain Cock	Pressure relief valve with contact
Rating Plate	Automatic Breather – tank with conservator
Silica gel breather – Tank with conservator	Rubber air bladder
	Winding temperature indicator

# Oil Distribution Transformer

## » References:

Client	Country	Scope of work	Rate KVA	Voltage KV	Year	QTY
Alexmar Project in EI-Khobar	Saudi Arabia	Supply 13 oil distribution transformer 2.5 MVA, 0.38/13.8KV	2500	13.8/0.38	2009	13
Ministry of Electricity	Iraq	Supply 8 oil distribution transformer 100KVA 11/0.416 KV Supply 14 oil distribution transformer 250KVA 11/0.416 KV Supply 4 oil distribution transformer 400KVA 11/0.416 KV Supply 1 oil distribution transformer 630 KVA 11/0.416 KV	100 250 400 630	11/0.4	2009	27
Tashied Co.	Yemen	Supply 4 oil distribution transformer 500KVA 11/0.415 KV Supply 4 oil distribution transformer 750KVA 11/0.415 KV Supply 4 oil distribution transformer 1000KVA 11/0.415KV	500 750 1000	11/0.4	2009	12
Ministry of Electricity	Iraq	Supply 6 oil distribution transformer 100KVA 11/0.416KV Supply 51 oil distribution transformer 250KVA 11/0.416KV Supply 30 oil distribution transformer 400KVA 11/0.416KV Supply 4 oil distribution transformer 1000KVA 11/0.416KV	100 250 400 1000	11/0.4	2010	111



# Oil Distribution Transformer

## » References:

Client	Country	Scope of work	Rate KVA	Volatge KV	Year	QTY
<b>Tashid Co.</b>	Yemen	Supply 2 oil distribution transformer 500KVA 11/0.415 KV Supply 6 oil distribution transformer 750KVA 11/0.415 KV Supply 1 oil distribution transformer 1000KVA 11/0.415KV	500 750	11/0.4	2010	8
<b>MA AL ZUBIR &amp;BRO.</b>	Yemen	Supply 3 oil distribution transformer 1000KVA 11/0.415 KV	1000	11/0.4	2010	3
<b>MOMEN ABUTAIR FOR CONTRACTING</b>	Saudi Arabia	Supply 25 oil distribution transformers 100KVA , 13.8/0.4KV	100	13.8/0.4	2011	25
<b>Aiash Trading</b>	Yemen	Supply 1 oil distribution transformer 1000 KVA , 6.3/0.4KV	1000	6.3/0.4	2011	1
<b>Aiash Trading</b>	Yemen	Supply 1 oil distribution transformer 2000 KVA , 11-6.3/0.4KV Supply 5 oil distribution transformer 1000 KVA , 11/0.415KV	1000 2000	11/0.4	2011	6
<b>Ministry of electricity</b>	Iraq	Supply 180 oil distribution transformers 250 KVA , 11/0.416KV	250	11/0.4	2012	180
<b>ARASCO FEED MILL</b>	Saudi Arabia	Supply 7 oil distribution transformers 2500 KVA , 13.8/0.38 KV Supply 3 oil distribution transformers 2000 KVA , 13.8/0.38 KV	2000 2500	13.8/0.38	2013	10

# Oil Distribution Transformer

» References:

Client	Country	Scope of work	Rate KVA	Voltage KV	Year	QTY
AL-OHADIEH CO	Saudi Arabia	Supply 1 oil distribution transformers 1500 KVA , 0.48/13.8 KV Supply 2 oil distribution transformers 4000 KVA , 0.48/13.8 KV	1500 4000	0.4/13.8	2013	3
AL ASRY ELECTRIC CO.LTD	Saudi Arabia	Supply 5 oil distribution transformer 100 KVA, 13.8/0.4 KV	100	13.8/0.4	2014	5
Ministry of electricity	Iraq	Supply 1124 oil distribution transformers 400 KVA , 11/0.416 KV Supply 144 oil distribution transformers 400 KVA , 11/0.416 KV	400	11/0.4	2014	1268
HABBAB ESTABLISHMENT	Saudi Arabia	Supply 2 oil distribution transformers 5000 KVA , 0.48/13.8 KV Supply 2 oil distribution transformers 1000 KVA , 0.48/13.8 KV Supply 1 oil distribution transformers 2000 KVA , 0.38/7.2 KV	5000 2000 1000	0.4/13.8 0.4/7.2	2015	5
Sharjha ELECTRICTY AND WATER AUTHORITY (SEWA)	UAE	Supply 30 oil distribution transformer 100 KVA, 11-6.6/0.415KV Supply 30 oil distribution transformer 250 KVA, 11-6.6/0.415KV Supply 100 oil distribution transformer 1000KVA , 11-6.6/0.415KV	100 250 1000	11-6.6/0.4	2015	310

# Oil Distribution Transformer

## » References:

Client	Country	Scope of work	Rate KVA	Volatge KV	Year	QTY
<b>SHARJHA ELECTRICTY AND WATER AUTHORITY (SEWA)</b>	UAE	Supply 100 oil distribution transformer 1500 KVA, 11-6.6/0.415KV Supply 50 oil distribution transformer 500 KVA, 11-6.6/0.415KV	1500 500	11-6.6/0.4	2015	310
<b>Fujairah</b>	UAE	Supply 3 oil distribution transformer 250 KVA, 11/0.433 KV	250	11/0.4	2015	3
<b>AL MASSA GROUP CAMPANY</b>	Saudi Arabia	supply 1 oil distribution transformer 1750 kva, 2.4/0.4	1750	2.4/0.4	2016	1
<b>AL MASSA GROUP CAMPANY</b>	Saudi Arabia	supply 1 oil distribution transformer 1000 kva , 38/3.3 kv	1000	33/3.3	2016	1
<b>FEDRAL ELECTRICTY AND WATER AUTHORITY (FEWA)</b>	UAE	supply 100 oil distribution transformers 250 kva, 11/0.4 supply 100 oil distribution transformers 2000 kva , 11/0.4	250 2000	11/0.4	2016	110
<b>FEDRAL ELECTRICTY AND WATER AUTHORITY (FEWA)</b>	Iraq	Supply 60 oil distribution transformer 100 KVA, 11/0.433 KV	100	11/0.4	2016	60
<b>ALFANEYAH ELECTROMECHANICAL COMPANY LTD.</b>	UAE	supply 30 oil distribution transformers 1000 kva, 13.8/0.4 supply 2 oil distribution transformers 1500 kva , 13.8/0.4	1000 1500	13.8/0.4	2017	32
<b>ALFANEYAH ELECTROMECHANICAL COMPANY LTD.</b>	Saudi Arabia	Supply 30 oil distribution transformers 1000 kva, 13.8/0.4 supply 2 oil distribution transformers 1500 kva , 13.8/0.4	1000 1500	13.8/0.4	2017	32

# Oil Distribution Transformer

» References:

Client	Country	Scope of work	Rate KVA	Voltage KV	Year	QTY
H.A.I. Habbab Establishment For Trading	Saudi Arabia	supply 2 oil distribution transformers 5000 kva , 33/13.8	5000	33/13.8	2017	2
HABBAB ESTABLISHMENT	Saudi Arabia	supply 1 oil distribution transformer 2000 kva , 33/7.2 kv supply 1 oil distribution transformer 3000 kva , 38/7.2 kv	2000 3000	33/7.2	2017	2
KASSAB BASHI CO. FOR TRADING & INVESTMENT W.L.L.	Libya	Supply of distribution transformer	100 200 500 1000	11/0.4	2017	25
EI-Sewedy Electric Transmission and Distribution	Angola	earthing Transformer	Earthing	-	2018	1
MOE	Iraq	Supply of 16 Distribution transformer 1000 KVA 11/0.4 KV Supply of 16 Earthing transformers	1000 Earthing	11/0.4	2018	32
SWCC (Saline water Conversion Corporation)	Saudi Arabia	Supply of 1.5 MVA, 2.5 MVA, 3.15 MVA, 5 MVA, 7 MVA, 11.5 MVA and 12.5 MVA	1500 2500 3150 5000 7000 11500 12500"	13.8/6.9 33/6.9 13.8/0.4	2018	36
SEC (Saudi Electrical Company)	Saudi Arabia	Supply of distribution transformer	100 200 300 500 1000	13.8/0.4 33/0.4	2019	50
Libya Electricity Company	Libya	Supply of distribution Transformers	100 200 300 500 1000	11/0.4	2019	329
Mouasat Hospital	Saudi Arabia	Supply of Eco Friendly distribution transformer (Easter oil)	2000	13.8/0.4	2019	5
FEDRAL ELECTRICTY AND WATER AUTHORITY (FEWA)	UAE	Supply of distribution transformer	100 250 3000	11/0.4	2019	31



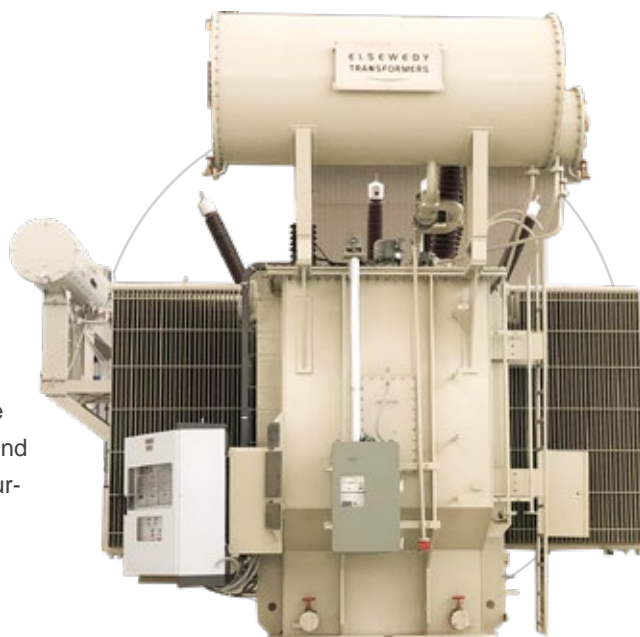
# Power Transformer

# Power Transformer

## ELSEWEDY POWER TRANSFORMERS

Esewedy Transformers comply with all customer specifications as well as national and international standards as **IEC, IEEE/ANSI, NEMA, BS & AS.**

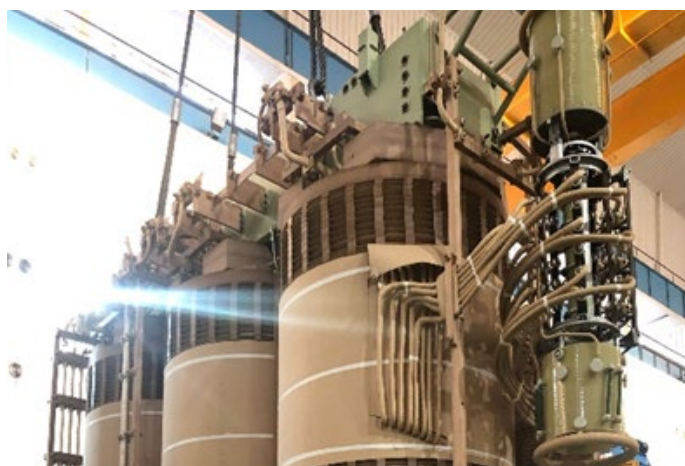
As the leading company in Egypt's power solutions industry, Elsewedy Electric is playing a central role in the national power supply network, based on its reliability and technology. Elsewedy Electric's experience of manufacturing and production technologies of over many years has enabled us to proudly present the Power Transformers.



Classification		Description
Type		Core Type
Phase		Single or Three phase
Frequency		50Hz or 60 Hz
Rated Voltage		3.3 kV up to 220 kV
MVA Capacity		Up to 250 MVA
Construction	Tank	Conventional type, Bell type
	Oil Preservation Sys	Conservator Type, N2 seal type, Air seal Air seal Type, etc....
	Coiling Method	ONAN, ONAF, OFAF, OFWF, ODAF
Applicable Standards		IEC, IEEE/ANSI, NEMA and BS

## APPLICATIONS

- Generation Step-up Units
- Transmission & Distribution Substations
- Industrial applications:
  - Oil & Gas Refinery
  - Chemicals & Petrochemicals
  - Cement Industry
  - Steel Industry
  - Rolling mills
  - Mining Industry
  - Desalination Plants
- Pumping stations
- Others



## » References List:



### ENERGY

- More than 40 units of Transformers with nominal system voltage class 220 kV; and rating up to 125 MVA & 175 MVA in EETC multiple substations.
- More than 200 units of Transformers with nominal voltage class 66 kV; and ratings up to 40 MVA in EETC multiple substations.
- More than 20 units of Transformers with nominal system voltage class 132 kV; and ratings up to 30 MVA in Arabian Gulf Region (KSA, Kuwait, UAE, Iraq, ... etc).
- More than 50 units of Transformers with nominal system voltage class 161 kV; and ratings up to 66 MVA in Black Africa Region (GRIDCo, ZESCO, Central of Africa Republic, ... etc).
- More than 50 units of Transformers with nominal system voltage class 66 kV; and ratings up to 20 MVA in North Africa Region (Libya, Sudan... etc).



### INFRASTRUCTURE

- Power Transformers with different systems voltage class up to 220 kV; and different ratings up to 125 MVA in Egypt:
  - Cairo Airport - Cairo,
  - Cairo Metro - Cairo,
  - Water Pumping Stations - New Cairo,
  - Cairo Stadium - Cairo,
  - Watania Electrical S/S – New Cairo.
- Power Transformers ratings up to 34.5 kV and 20 MVA in Arabian Gulf:
  - Shoaibah SWCC Plant – Saudi Arabia,
  - King Abdulaziz Military City (KAMC) – Saudi Arabia,
  - King Fahd Industrial Port (KFIP) – Saudi Arabia,
  - King Faisal Military City (KFMC) – Saudi Arabia.
- Power Transformers ratings up to 63 kV and 70 MVA in Black Africa:
  - Ministry of Energy & Water – Angola.
  - Tema Seaport – Ghana.



### INDUSTRIAL

- Power Transformers with different systems voltage class up to 220 kV; and different ratings up to 125 MVA in Egypt:
  - Phosphate factory - Abu Tartour,
  - Enppi / EthydcO Ethylene Petrochemical Plant – Alexandria,
  - Nahda Cement Factory - Qena,
  - Steel factory - Suez,
  - Polyster Plant - Ain Sokhna,
  - Tajamouat City – 10th of Ramadan, ... etc
- Power Transformers with nominal system voltage class up to 33 kV; and ratings up to 50 MVA in Black Africa & Arabian Gulf:
  - Sokoto Cement factory - Nigeria.
  - Arabian Cement Factory - Saudi Arabia.



### BUILDING

- Power Transformers with different systems voltage class up to 220 kV; and different ratings up to 75 MVA in Egypt:
  - Cairo Contact Centers Park S/S - Cairo,
  - Cairo Festival City S/S – New Cairo,
  - Haram City Low Cost Housing S/S - Giza,
  - Barwa / Damac S/S – New Cairo.
  - Uptown Cairo (Zahraa El-Mokattam) S/S - Cairo.
  - Marassi (Sidi Abd Al-Rahman) S/S – North Coast, Alameen.
  - Almaza City Center S/S - Cairo,

# Power Transformer

## » Major Projects:



EGYPT



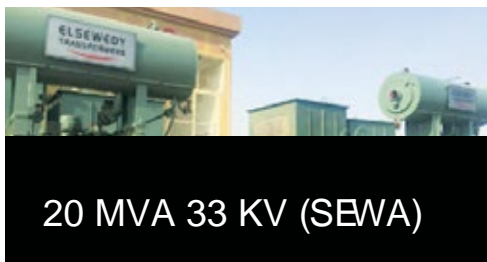
EGYPT



ANGOLA



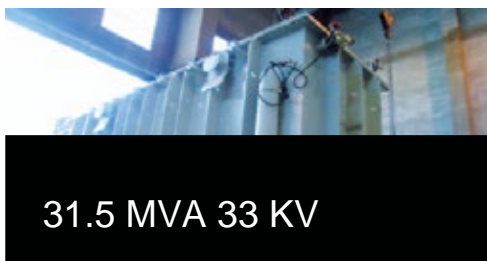
GHANA



EMIRATES



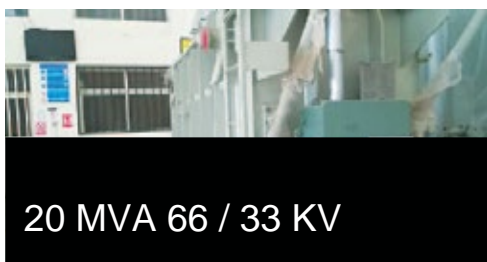
KUWAIT



IRAQ



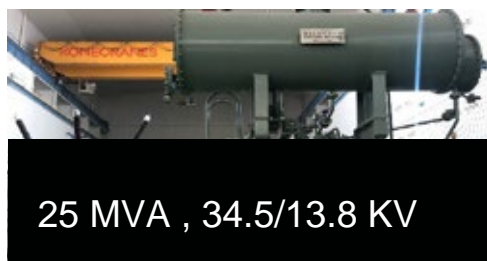
LIBYA



SUDAN



KSA



KSA



## » Refernces ( Egypt ):

Client	Country	Project	Scope	Segment
<b>Egyptian Electricity Transmission Co. ( EETC )</b>	Egypt	Several Substations	More than 350 Power Transformers, 25 & 40 MVA, 66/11-22 KV	Electricity
<b>Egyptian Electricity Transmission Co. ( EETC )</b>	Egypt	Several Substations	More than 70 Power Transformers, 125 & 175 MVA, 66/11-22 KV	Electricity
<b>Egyptian Electricity Transmission Co. ( EETC )</b>	Egypt	Samalout - Sohag - Wahat	4 x 50 MVA, 132/33 KV	Electricity
<b>Elsowedy Electric T &amp; D</b>	Egypt	Lahoon - Fayoum	2 x 75 MVA, 220/22/22 KV	Agriculture & Reclamation
<b>Power System Projects ( PSP )</b>	Egypt	Lina Farm	2 x 40 MVA, 66/22 KV	Agriculture & Reclamation
<b>Mega</b>	Egypt	Abo Sultan	2 x 40 MVA, 66/22 KV	Agriculture & Reclamation
<b>Madkour</b>	Egypt	Qawmeia Cement - Ain Sokhna	3 x 40 MVA, 66/22 KV	Cement
<b>Nahda Cement</b>	Egypt	Nahda Cement - Qena	2 x 40 MVA, 66/11 KV	Cement
<b>ABB</b>	Egypt	Cairo Festival City - New Cairo	4 x 25 MVA, 66/22 KV	Commercial
<b>JV HAC &amp; CCC</b>	Egypt	Almaza City Center	2 x 40 MVA, 66/22 KV	Commercial
<b>Egyptian Electricity Transmission Co. ( EETC )</b>	Egypt	El Tebbin Power Plant - Cairo	1 x 125 MVA, 220/66/11 KV	Generation
<b>Egyptian Electricity Transmission Co. ( EETC )</b>	Egypt	El Siouf Power Plant - Alex	1 x 80 MVA, 10.5/10.5/69 KV	Generation
<b>Elsowedy Electric T &amp; D</b>	Egypt	Port Said East Industrial Zone	3 x 175 MVA, 220/66/22 KV & 4 x 40 MVA, 66/22 KV	Industrial Zones
<b>El Tajamouat Industrial co.</b>	Egypt	El Tajamouat Industrial - 10th of Ramadan	2 x 40 MVA, 66/11 KV	Industrial Zones

## » Refernces ( Egypt ):

Client	Country	Project	Scope	Segment
<b>Elsowedy Electric T &amp; D</b>	Egypt	Port Said East Industrial Zone	3 x 175 MVA, 220/66/22 KV & 4 x 40 MVA, 66/22 KV	Industrial Zones
<b>El Tajamouat Industrial co.</b>	Egypt	El Tajamouat Industrial - 10th of Ramadan	2 x 40 MVA, 66/11 KV	Industrial Zones
<b>Elsowedy Electric T &amp; D</b>	Egypt	Port Said West Industrial Zone	2 x 175 MVA, 220/66/11 KV & 2 x 40 MVA, 66/11 KV	Industrial Zones
<b>Cairo Metro</b>	Egypt	Cairo Metro - Ramsis	1 x 50 MVA, 220/20 KV	Infrastructure
<b>Cairo Airport</b>	Egypt	Cairo Airport	3 x 40 MVA, 66/11 KV	Infrastructure
<b>Egyptian Electricity Transmission Co. ( EETC )</b>	Egypt	Cairo Stadium	2 x 40 MVA, 66/11 KV	Infrastructure
<b>Elsowedy Electric T &amp; D</b>	Egypt	Kayan 110	3 x 175 MVA, 220/22/22 KV	Military
<b>Madkour</b>	Egypt	Mohammed Naguib Base - North Coast	2 x 40 MVA, 66/22 KV	Military
<b>Mega</b>	Egypt	Gabal El Kamel	3 x 40 MVA, 66/22 KV	National Projects
<b>Elsowedy Electric T &amp; D</b>	Egypt	Berket Ghalion Fish Farms - Kafr El Sheikh	2 x 40 MVA, 66/11 KV	National Projects
<b>Elsowedy Electric T&amp;D and General Electric (GE)</b>	Egypt	Fast Track, Electricity Emergency Plan - Cairo	20 x 35 MVA, 23.5/11 KV & 11.86/11.5 KV	National Projects
<b>Elsowedy Electric T &amp; D</b>	Egypt	New Capital S1	2 x 175 MVA, 220/66/22 KV & 6 x 40 MVA, 66/22 KV	New Cities
<b>Elsowedy Electric T &amp; D</b>	Egypt	Badr City	2 x 175 MVA, 220/66/22 KV & 3 x 40 MVA, 66/22 KV	New Cities
<b>Siemens</b>	Egypt	Watania	3 x 125 MVA, 220/66/22 KV	New Cities

## » Refernces ( Egypt ):

Client	Country	Project	Scope	Segment
<b>Elsowedy Electric T &amp; D</b>	Egypt	Barwa & Damac	8 x 40 MVA, 66/22 KV	New Cities
<b>Elsowedy Electric T &amp; D</b>	Egypt	Canal Sugar - Menya	2 x 175 MVA, 220/33/33 KV	Other Industries
<b>Oriental Weavers</b>	Egypt	Oriental Weavers - 10th of Ramadan	1 x 40 MVA, 66/11 KV	Other Industries
<b>Enppi</b>	Egypt	Ethydco Pertochemical Complex - Amreya / Alex	2 x 125 MVA, 220/66/11 KV & 2 x 50 MVA, 66/11 KV	Pertochemical
<b>ABB</b>	Egypt	United co. for chemicals & medical preparations (UCCMA) - Abu Zaabal	2 x 25 MVA, 66/11 KV	Pertochemical
<b>Emaar</b>	Egypt	Marassi - Sidi Abdel Rahman & Uptown Cairo - Mokattam	4 x 75, 220/22/22 KV	Residential
<b>Madkour</b>	Egypt	Sarai - Cairo	2 x 175 MVA, 220/22/22 KV	Residential
<b>Siemens</b>	Egypt	Cairo Contact Center - Maadi	3 x 25 MVA, 66/11 KV	Smart Building
<b>PSP</b>	Egypt	Elco Steel - Suez	2 x 250 MVA, 220/33/33 KV	Steel Industry
<b>Marakby Steel</b>	Egypt	Marakby Steel - 6th October	1 x 40 MVA, 66/22 KV & 1 x 50 MVA, 2.65/33 KV (Special )	Steel Industry
<b>Suez Steel</b>	Egypt	Suez Steel	1 x 40 MVA, 33/6.9 KV & 1 x 25 MVA, 33/11 KV	Steel Industry
<b>Arab Contractors</b>	Egypt	New Cairo Water Pumping stations	6 x 20 MVA, 22/11 KV	Water Stations
<b>Behira EDC</b>	Egypt	El Alameen Desalination Plants	1 x 40 MVA, 22/11 KV	Water Stations

## » Refernces ( Export ):

Client	Country	Project	Scope	Segment
Erbil - MOE	IRAQ	IRAQ	1x31.5 MVA,33/11.5 KV&1x16 MVA,33/11.5 KV	Electricity
I MAN Company	KSA	King Fahd industrial port	6 x10 MVA,34.5/13.8 KV	Transportation
"King Abdul Aziz Military Administration for Operation and Maintenance"	KSA	KAMAC Project	2 x20 MVA,13.8/33 KV	
"Saline Water Conversion Corporation(SWCC)"	KSA	Shoiba project	2x20 MVA,13.8/7.08 kv	Water Stations
Takamol order	KSA	Takamol project	1x10 MVA,33/13.8 KV	
"Riyadh Al-Aasemmah"	KSA	ARASCO 1 Project	2x10 MVA,33/13.8 KV	
Riyadh Al-Aasemmah	KSA	ARASCO 2 Project	2x10 MVA,33/13.8 KV	
Ahalina Group	KSA	Dora Dora	1x10 MVA,33/13.8 KV	
PA cost international for contracting	KSA	Alshinan s/s	3x20 MVA,33/13.8 KV	cocontracting
PA cost international for contracting	KSA	Riyadh s/s	2x20 MVA,33/13.8 KV	Contracting
Establishment El masa forTrading	KSA	(Arabian cement)	1x31.5 MVA,13.8/6.6/6.6 KV	trading
GECO Mechanical &Electrical Ltd	UAE	SEWA project	6x20 MVA,33/11 KV	Electricity
T & D SISTER COMPANY	Kuwait	Kuwait S/S MEW project-	8x30 MVA , 132/11.5 KV	Electricity and water

## » Refernces ( Export ):

Client	Country	Project	Scope	Segment
<b>Elsowedy Electric Kuwait</b>	Kuwait	IMCO	12x30 MVA,132/11.5 KV	Pertochemical
<b>Siemens Limited KSA</b>	KSA	SIEMENS	3x20 MVA,34.5/13.8 KV	Electricity
<b>"Majid Abmed Hussein Al Qutary Est. for Trading"</b>	Yemen		2x20 MVA ,33/11 KV	Trading
<b>Libya Electricity Company</b>	Libya	GECOL project	30 MVA, 30/11 kv &20 MVA,66/11 KV	Electricity
<b>Sudanese ElectricityTransmission Company LTD</b>	Sudan	SUDATRAF	6x20 MVA,33/11 KV & 2x20 MVA,66/33 KV	Electricity
<b>ZESCO-Zambia</b>	Zambia	ZESCO	26 Transformers 26 MVA,33KV&40 MVA,66KV &52 MVA,132 KV	Electricity
<b>ZESCO-Zambia</b>	Zambia	ZESCO	2x26 MVA ,20/26 KV	Electricity
<b>GRIDCO-Ghana</b>	Ghana	GRIDCO	17 Transformers 13 MVA,69/34.95 KV&33 MVA,161/34.5 KV&66 MVA,161/34.5 KV	Electricity
<b>EL Sewedy Electric Nigeria</b>	Nigeria	Sokoto state independent power project	1x50 MVA,11/33 KV	Other Industries
<b>Elsowedy Electric T&amp; D (Angola)</b>	Angola	Angola emergency power project	3x70 MVA,11.5/63 KV	Oil
<b>Tanzania Portland cement public limited company</b>	Tanzania	Heidelberg cement	1x25 MVA, 132/3.3 KV	New Cities
<b>"Elsowedy Cables Egypt,(GECOL Libya project)"</b>	Libya	GECOL project	1x20 MVA,33/11 KV	Other Industries

## INSTALLATION & MAINTENANCE

As we understand how transformers are vital to the smooth running of operations we have established an after-sales service and support division. We offer a range of services to help you maintain your transformers in peak condition, even if you have sourced them from other manufacturers.

### Services include:

- Installation & acceptance testing
- On site repair
- Oil purification
- Electrical testing
- Spare parts supply
- Maintenance contract
- Personnel training

## HEAD OFFICE

Plot No. 27, 1st District, 5th Settlement,  
P.O.Box 311, New Cairo 11853, Egypt  
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Fax: (+202) 275 99 731  
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Address in Head Office

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Email: info-scegypt@elsewedy.com

### United Industries

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Fax: (+202) 275 99 743 / 15 / 69  
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### Egyplast

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Elrobeky Region, 10th of Ramadan City,  
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### United Metal

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499  
Fax: (+966) 266 87 480  
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5th Floor Addis Ababa, Ethiopia  
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Email: info-ethiopia@elsewedy.com

### Doha Cables

3rd floor, KIA Motors Showroom bldg.,  
Al Rayyan road ,Al Sadd, P.O. Box 2248,  
Doha, Qatar  
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Fax: (+974) 4455 30 49  
Email: info@dohacables.com

## ELECTRICAL PRODUCTS

### Elsewedy Sedco for petroleum services

Tel.: (+202) 275 99 750 / 1  
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Email: info-sedcopetroleum@elsewedy.  
com

### Egyptian Company for Manufacturing

Electrical Insulators ECMEI  
Industrial Zone A3, 10th of Ramadan  
City, Egypt  
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Fax: (+2015) 411 255  
Email: ecmei@elsewedy.com  
Email: info@ecmei.com

### Elsewedy Electric Ghana

9, Light Industrial Area No. A/36/2B  
Tema –  
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Fax: (+233) 11103  
Email: info-ghana@elsewedy.com

## ENERGY MEASUREMENT & MANAGEMENT

### ISKRAEMECO

Iskraemeco Savska loka 4 SI-4000 Kranj,  
Slovenia  
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### ISKRAEMECO – Egypt

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Email: info@iskraemeco.com.eg

## TRANSFORMERS

### Elsewedy Transformers

Tel.: (+202) 275 99 727  
E-mail: info-transformers@elsewedy.com

### Elsewedy Electric Zambia

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### Elsewedy Electric Nigeria

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### SUDATRAF Sudanese Egypt Electrical Industries

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Fax: (+249) 185 31 33 94  
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## COMMUNICATIONS

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### 3W Networks - UAE

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## PROJECTS & DEVELOPMENTS

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### Elsewedy Power

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### Power System Projects (PSP)

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### Elsewedy Cables-Qatar

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## WIND ENERGY GENERATION

SET (SIAG Elsewedy Towers)  
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## SOLAR ENERGY SOLUTIONS

### Elsewedy Power

Email: info-power@elsewedy.com

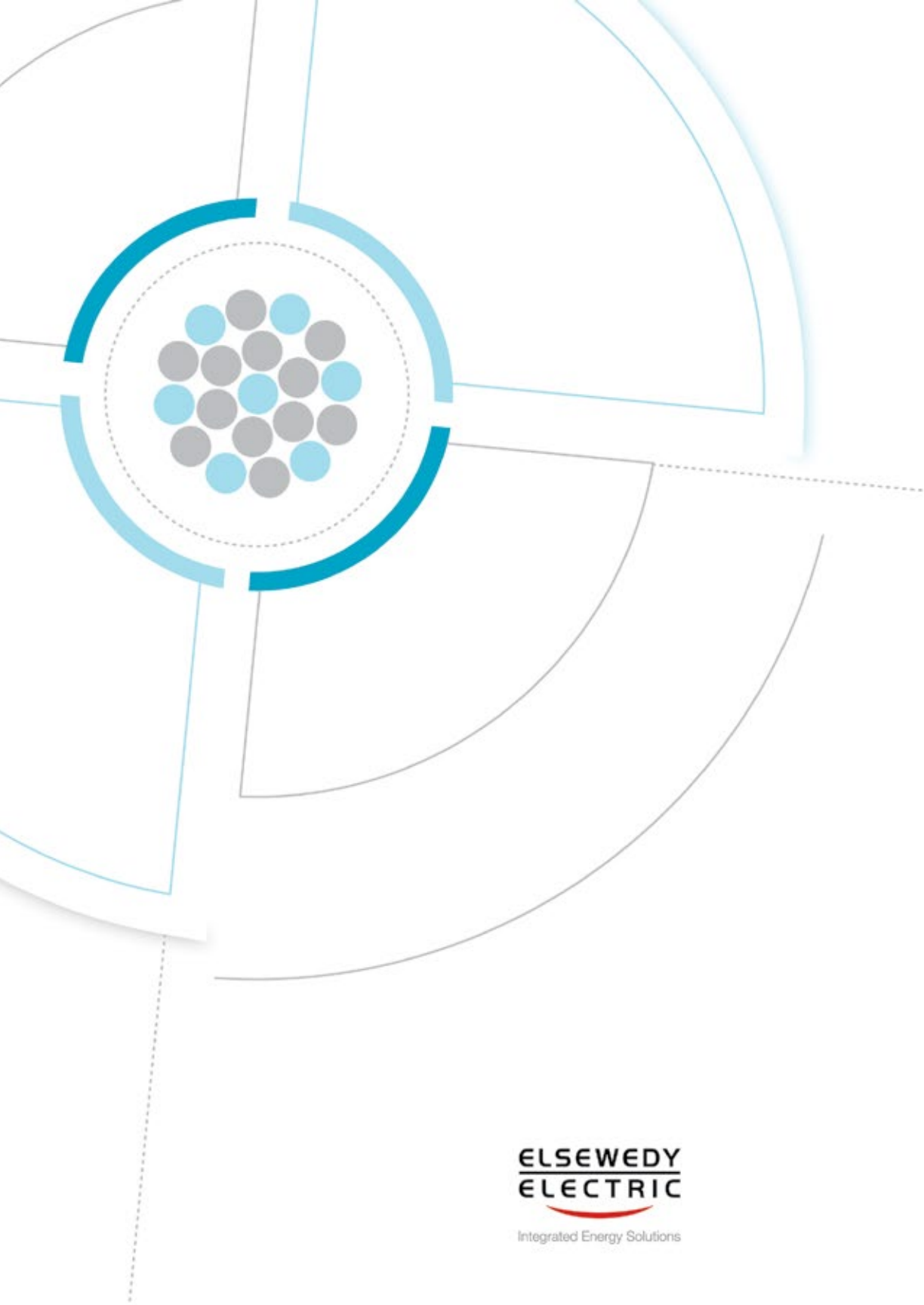
## INTERNATIONAL OPERATION

### Elsewedy Cables – Kuwait

Kuwiat City, Al Hamad Tower A, Block 14,  
Phase (1B), 4th Floor, P.O.Box 4588  
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### Elsewedy Cables – UAE

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**ELSEWEDY  
ELECTRIC**

Integrated Energy Solutions

## **TRANSFORMERS** FOCUS CATALOGUE

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 **19159**