

EMTECH
INNOVATION UNLEASHED

EMEG

Power & Energy Contractor



EPC Services for:

- Power Transformers
- Power Generators
- Transmission Lines



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1. About EM TECH JV EMEG

EMEG was established in 2007 to be specialized in Power Plant Generators, Transmission Lines and Power Transformers. Capabilities, competencies and good reputation made EMEG a target when it comes to Energy works.

EM TECH was initiated in 2001 and started expanding from Lebanon in 2010 to penetrate new markets such as Iraq, Nigeria and Algeria in a very smooth way due to several reasons such as availability of digital documentation system (VBC), good Quality Management System (ISO 9001;2008), accepting challenges for new projects such as IC LEED certified project and good relations and reputation with our stakeholders.

We provide our clients with best in class value engineering, strategic sourcing, and project management to a wide variety of sectors in the Middle East.

This integrated engineering services and products of the JV allows our clients to benefit a one-stop-shop approach with lower costs, better delivery schedules and synergistic design along with prevailing execution capability.

We are dedicated to solve our client's toughest challenges through innovation, our experienced professional workforce, along with our processes and support systems offer the highest standards in quality and service, ensuring every project is completed on time and to our customer's satisfaction.

2. Power Transformers

The JV Energy is well built to provide EPC services for power transformer substations in accordance with international standards (IEC, ANSI, etc.), moreover, we can design & build substations according to customers' specific requirements. The power transformers are designed to operate in temperate climate conditions (standard designed), in special climate condition such as: tropical dry-humid, tropical dry, highly polluted mining areas and in any other environmental conditions.



Our expertise extends from oil immersed distribution, medium & large power transformers, industrial transformers, traction transformers, mining transformers & dry type transformers.



The JV Energy works both GIS & AIS types of substations and with wide knowledge of MITSUBISHI, ABB, HYUNDAI, SIEMENS, ALSTOM, HYOSUNG, BEST..etc



Item	Project Name	Description	Capacity	Location
1	Nitshiman Market Substation	3*(133/32/11) KV of 65 MVA	185 MW	Erbil Kurdistan Iraq
2	New Shaways Substation	3*(133/32/11) KV of 65 MVA	185 MW	Erbil Kurdistan Iraq
3	New Shaways Substation	3*(133/32/11) KV of 65 MVA	185 MW	Erbil Kurdistan Iraq
4	Nosoran Substation	3*(133/32/11) KV of 65 MVA	185 MW	Erbil Kurdistan Iraq
5	GIS (230/66/20 KV) ALEPPO Substation (SCADA OPC Syria project)	Complete GIS station including: 3* (230/66 KV) of 125 MVA transformer 3* (66/20 KV) of 30 MVA transformer 6* (20 /0.4 KV) of 100 KVA Earthing transformer 3 * 230 KV + 3 * 66 KV + 18 * 20 KV feeders.	375 MVA 90 MVA	Syria
6	GIS (230/66/20 KV) Baramkeh Substation (SCADA OPC Syria project)	Complete GIS station in Damascus including: 3* (230/66 KV) of 125 MVA transformer 3* (66/20 KV) of 30 MVA transformer 6* (20 /0.4 KV) of 100 KVA Earthing transformer 3 * 230 KV + 3 * 66 KV + 18 * 20 KV feeders.	375 MVA 90 MVA	Syria
7	Syria – Jordan 400 KV Interconnection	New 400 KV conventional substations consisting of 3 Nos. 400 KV Diameter (3 OHL feeders and 2 Transformer feeders). 2 Nos. 400/230KV, 300MVA power transformer. 2 Nos. 20KV , 20MVAR shunt reactors and 2 Nos. 20kV, 20 MVAR Capacitors	600 MVA	Syria – Jordan
8	Dimas	New 400KV Conventional substation consisting of: 2 Nos. 400KV Diameter (2 OHL feeders and 1 transformer feeder) 2 Nos. 400/230 KV, 300MVA power transformers. 2 Nos. 20KV, 20 MVAR shunt reactors and 2 Nos.20KV, 20MVAR capacitors, Extension of existing 230 KV substation by one feeder	600 MVA	Syria
9	Syria – Turkey 400 KV Interconnection – Zeyzoon	New 400 KV Conventional substation consisting Of: 3 Nos. 400 KV Diameter (3 OHL feeders and 2 Transformer feeders) 2 Nos. 400/230 KV, 300 MVA power transformers. 2 Nos. 20 KV, 20 MVAR shunt reactor and 2 Nos.20 KV, 20 MVAR Capacitors. Extension of existing 230 KV substation by one feeder	600 MVA	Syria – Jordan
10	Syria – Turkey 400 KV Interconnection – Aleppo F	Extension of existing 400KV substation by: 2 Nos.400 KV Diameters (1 OHL feeders and 1 transformer Feeder) 1No. 400/230 KV, 300 MVA Power transformers, 1No. 400 KV,50 MVAR shunt reactor.	300 MVA	Syria
11	Syria – Turkey 400 KV Interconnection – Hama II- Lattakia	New 400 KV Conventional substation consisting Of: 2 Nos. 400 KV Diameter (2 OHL feeders and 2 Transformer feeders) 2 Nos. 400/230 KV, 300 MVA power transformers. 2 Nos. 20 KV, 20 MVA Capacitors. Extension of existing 230 KV substation by 6 feeders	600 MVA	Syria

Item	Project Name	Description	Capacity	Location
12	Syria – Iraq 400 KV interconnection - Nasserieh	New 400 KV Conventional substation consisting of: 3 Nos. 400 KV Diameter (2 OHL feeders and 1 transformer feeder), 1 Nos. 400/230 KV, 300MVA power transformers. 1 Nos.20KV, 20 MVAR capacitors Bank, 1 Nos. 20/0.4 KV, 800 KVA Auxiliary transformer	300 MVA	Syria
13	Syria – Iraq 400 KV interconnection – Taym	New 400 KV Conventional substation consisting of: 3 Nos. 400 KV Diameter (2 OHL feeders and 1 transformer feeder), 1 Nos. 400/230 KV, 300 MVA power transformers. 1 Nos. 20 KV, 20 MVAR shunt reactors and 1 Nos. 20/0.4 KV, 800 KVA Auxiliary transformer.	300 MVA	Syria
14	Syria – Iraq 400 KV interconnection - Palmyra	New 400 KV Conventional substation consisting of: 2 Nos. 400 KV Diameter (2 OHL feeders and 1 transformer feeder), 1 Nos. 400/230 KV, 300 MVA power transformers. 1 Nos.20 KV, 20 MVAR capacitors Bank and 1 Nos. 20/0.4 KV, 800 KVA Auxiliary transformer	300 MVA	Syria
15	Syria – Iraq 400 KV Interconnection - Aleppo –w	New 400 KV conventional substations consisting of: 3 Nos. 400 KV Diameter (3 OHL feeders and 2 Transformer feeders). 2 Nos. 400/230 KV, 300 MVA power transformer. 2 Nos. .20kV, 20 MVAR Capacitors, 230KV substation by two feeder.	600 MVA	Syria
16	Syria – Iraq 400 KV Interconnection – Hassakeh	New 400 KV Conventional substation consisting of: 2 Nos. 400 KV Diameter (2 OHL feeders and 1 transformer feeder), 2 Nos. 400/230 KV, 300 MVA power transformers. 2 Nos.20 KV, 20 MVAR capacitors, 230 KV substation by two feeder.	600 MVA	Syria
17	Syria – Iraq 400 KV Interconnection - Dimas	EXT 400 KV conventional substations consisting of: 1 Nos. 400 KV Diameter (1 OHL feeders and 1 Transformer feeders). 1 Nos. 400/230KV, 300 MVA power transformer. 2 Nos. .20 kV, 20 KV auxiliary transformer,	300 MVA	Syria
18	Tow MV Substation 34.5/13.8/4.16 KV - NO. 1	Complete MN station in Dammam including: 2* (132/34.5 KV) of 125 MVA transformer 7* (34.5 KV) of transformer feeder. 2* (34.5 KV) feeder 10* (13.8 KV) of transformer feeder. 10* (13.8 KV) feeder	250 MVA	Saudi Arabia
19	Tow MV Substation 34.5/13.8/4.16 KV - NO. 2	Complete MN station in Dammam including: 2* (132/13.8 KV) of 100 MVA transformer 2* (13.8 KV) of transformer feeder. 7* (13.8 KV) feeder 4* (4.16 KV) of transformer feeder. 12* (4.16KV) feeder	200 MVA	Saudi Arabia
20	GIS (380/132/13.8 KV) Riyadh Substation 9027 INABENSA SBAN	Complete GIS station in Dammam including: 3* (380/132 KV) of 502 MVA transformer 3* (132/13.8 KV) of 60 MVA transformer 3* (13.8 /0.4 KV) of 100 KVA Earthing transformer 16 * 380 KV + 28 * 132 KV + 28 * 13.8 KV feeders	1506 MVA	Saudi Arabia

3. Power generators

The JV Energy power plant experience includes constructing and installing major systems on a broad range of coal-fired & gas-fired power plants.

Our knowledge of work in the electricity domain, rehabilitation, maintenance and total execution of Power Generator Plants & power transformer substations comes in line with our strength in the line of spare parts supply, follow-up, and maintenance.



The JV Energy services includes all trades and disciplines concerning industrial plant construction services, such as mechanical, electrical, communication, automation and structural engineering. We also provide solutions for the design and constructions of power plants and provide it services for specific portions or phases of a project as a consortium partnership or subcontractor.



The JV Energy provided and installed multiple 185 MW high tension generator sets/ substations. These generator sets were coupled using reputable engine brands such as MITSUBISHI, MAN, PERKINS, VOLVO PENTA, MTU, CATERPILLAR, JOHN DEERE and alternators such as LEROY SOMER, STAMFORD, MECC ALTE, AVK, MARELLI etc. These generator sets can be installed in acoustic/weather-proof enclosure, mounted on trailer, rubber tyre gantries, generator rooms, civil defence shelter, etc.

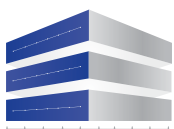
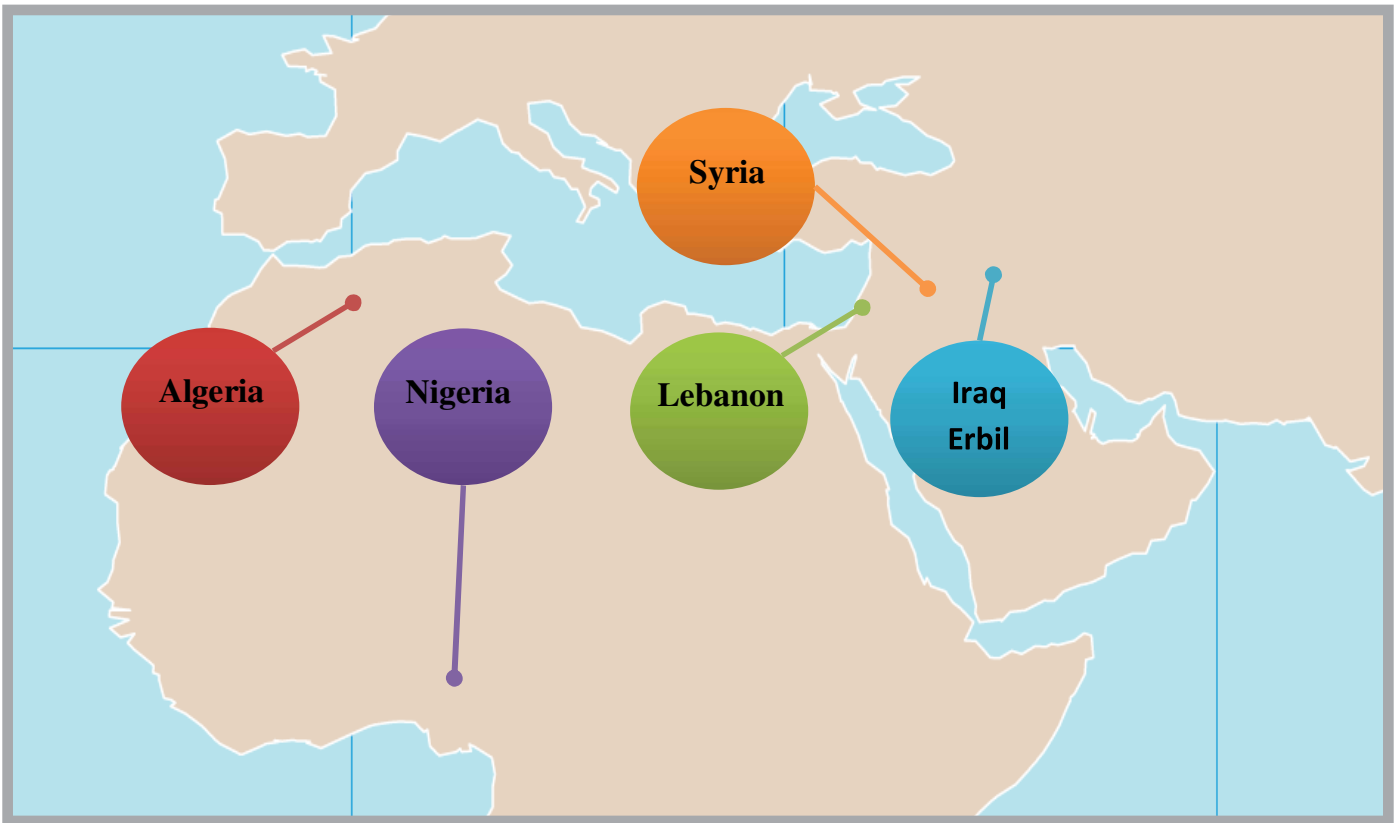
Item	Project Name	Description	Capacity	Location
1	Mobile Gas Turbines 12x20 MW	240 MW site conditions 12 mob MVAR ile Gas turbines with a unit capacity of 20 MW conditions	185 MW	Algeria
2	Mobile Gas Turbines 6x18.83 MW	112 MW site conditions six (6) mobile Gas turbines with a unit capacity of 18.83 MW conditions	185 MW	Algeria



4. Transmission Lines

Cable terminations are supplied with high grade, wet process porcelain insulators for superior electrical performance, tracking resistance and mechanical strength. Field assembled designs offer interchangeable aerial lugs, hoodnut connector assemblies, porcelains, bodies and cable entrance fittings to accept any construction of extruded dielectric, paper insulated or armored cable. A variety of pre-assembled designs offer built-in stress relief and insulation permitting ease of installation and adaptability to a wide range of cable types and sizes.





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