

EHV and HV Substations

No	Project Name	Approx Value of MEP works Million US\$	SCG Involvement Design Discipline					Construction Supervision	Brief Description
			Plum	F.P	HVAC	ELEC.	CIVIL		
1	Extension of Abu-Zaabal 500/220KV GIS S/S		•	•	•	•	•	•	<p>One complete 500kV GIS transformer's bay with double breaker configuration.</p> <p>One 220kV GIS diameter with one and half configuration for 220kV side of auto-transformer.</p> <p>GIB connection between 500, 220kV sides of the new auto-transformer .</p>
2	Nubaria 500 KV AIS S/S		•	•	•	•	•	•	<p>Turnkey project awarded by West Delta Electricity Production Company to Consortium of Sumitomo Corporation/Japan AE Power/ CONISYS (Member of Shaker Consultancy Group) comprising:</p> <p>2 x 750 MW Combined cycle project</p> <p>500 kv air insulated switchgear yard</p> <p>13 BAY 500 KV</p> <p>13 Single Phase 167 MVA auto transformers</p> <p>500/220/11 kv transformers</p> <p>The first 500 kv S/S in Egypt using live line insulators washing system (LLIWS)</p> <p>SCG's scope, as Contractor (CONISYS) Consultant, included on-shore project management, detailed design, construction drawings, procurement services and construction management and supervision of construction, testing and commissioning of all civil electrical and mechanical works.</p> <p>Client: CONISYS</p>
3	Assuit 500/220//132 KV Substation extension					•	•		<p>Preparation of cable routing, lighting system design and shop drawings, preparation of civil steel structure design and shop drawings and generation of bill of quantities.</p> <p>Client : Hitachi</p>

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4	Marsa Matrouh S/S 220/66/11 KV.		●	●	●	●		●	Detailed engineering and construction and as built drawings for all disciplines. Client: Kahromica Co.
5	Al Ezz 220/30 KV Substation		●	●	●	●		●	Preparation of tender specifications, review and approval of schematics and electro -mechanical designs, civil services design and testing and commissioning supervision. Client: Al Ezz Heavy Industries
6	Egyptian Propylene and Poly-Propylene 220/11/11 KV GIS S/S		●	●	●	●	●	●	Interconnection study, substation detailed design and preparation of packages tender documents. Bids evaluation and assistance in contracts negotiation and award. Project management including procurement management, construction management and supervision. Client: Egyptian Propylene and Poly-Propylene Co.
7	Marasi 220/22 KV, GIS S/S,		●	●	●	●	●	●	Interconnection study, substation detailed design and preparation of packages tender documents. Bids evaluation and assistance in contracts negotiation and award. Project management including procurement management, construction management and supervision. Client: EMAAR Misr for Development.

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8	Uptown 220/22 KV, GIS S/S,		•	•	•	•	•	•	<p>Interconnection study, substation detailed design and preparation of packages tender documents. Bids evaluation and assistance in contracts negotiation and award.</p> <p>Project management including procurement management, construction management and supervision.</p> <p>Client: EMAAR Misr for Development.</p>
9	Egyptian Cement Co. 220/11 KV Substation		•	•	•	•		•	<p>Preparation of tender specifications, electro-mechanical design, civil work structure design construction management and supervision.</p> <p>Client : Egyptian Cement Company</p>
10	New Qena 220/132/66 KV Substation.		•	•	•	•		•	<p>Detailed engineering and construction and as built drawings for all disciplines.</p> <p>Client: Kahromica Co.</p>
11	El Gammal 220/22 KV, GIS S/S		•	•	•	•	•	•	<p>Interconnection study, substation detailed design and preparation of packages tender documents. Bids evaluation and assistance in contracts negotiation and award.</p> <p>Project management including procurement management, construction management and supervision.</p> <p>Client: New Giza for Utilities and Infrastructure.</p>
12	El-Omayed 220/66 KV S/S.		•	•	•	•		•	<p>Detailed engineering and construction and as built for all disciplines.</p> <p>Client: Kahromica Co.</p>

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13	Extension of Sadat 220/66 KV S/S.		•	•	•	•		•	Detailed engineering and construction and as built for all disciplines. Client: Group Schneider Co.
14	Safaga 220/66 KV S/S.		•	•	•	•		•	Detailed engineering for all disciplines Client: Kahromica Co.
15	El Mansour 220/66/11 kV S/S Extension					•	•		Primary engineering and design of civil works and steel structure Client : Siemens
16	Port Said 220/66/11 kV S/S Extension					•	•		Primary engineering and design of civil works and steel structure Client : Siemens
17	Menouf 220/66/11 kV S/S Extension					•	•		Primary engineering and design of civil works and steel structure Client : Siemens
18	Aleppo 220/66 KV S/S (Syria)					•			Preparation of schematic diagrams for the protection and control system. Client: AREVA T&D
19	Baramkeh 220/66 KV S/S (Syria)					•			Preparation of schematic diagrams for the protection and control system. Client: AREVA T&D
20	10 th of Ramadan City 220/66 KV Sub-station Extension					•			Detailed engineering, electro-mechanical design and detailed construction drawings, I&C and protection schematics and wiring diagrams steel structure and civil design and fabrication construction drawings. Client: Group Schneider Co.

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21	Wadi El Nakra 220/66KV S/S.					•		Preparation of electrical and instrumentation cables layout, control, metering and protection schematics and connection and wiring diagrams. Client : Cogalex - Alstom	
22	Extension of Elhadaba 220/66/11KV S/S						•	SCG scope of work: Soil investigation and soil mechanics report. Client: Egyptian Electricity Transmission Company.	
23	Cairo East 220 KV S/S						•	SCG scope of work: Soil investigation and soil mechanics report. Client: Egyptian Electricity Transmission Company.	
24	Assdada 220/66 KV S/S (Lybia)					•		Preparation of schematic diagrams for the protection and control system. Client: AREVA T&D	
25	Buraida 132 KV Switching S/S (Saudi Arabia)					•		Preparation of as built drawings of electrical instrumentation cables routing, control, metering and protection schematics and connection and wiring diagrams. Client : Cogalex - Alstom	
26	Thirteen (13) 132/33/11 & 33/11 KV S/Ss in Erbil & Dohuk (Iraq)					•		Primary engineering, preparation of front view and schematic diagrams. Client: Alstom	

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27	Al Montazah 66/22 KV, 3x40 MVA GIS S/S		•	•	•	•	•	•	<p>Interconnection study, substation detailed design and preparation of packages tender documents.</p> <p>Bids evaluation and assistance in contracts negotiation and award.</p> <p>Project management including procurement management, construction management and supervision.</p> <p>Client: Al Montazah for Tourism and Investment.</p>
28	Airport(2) 66/11 KV ,3x40 MVA GIS S/S		•	•	•	•	•	•	<p>Substation detailed design and preparation of packages tender documents.</p> <p>Bids evaluation and assistance in contracts negotiation and award.</p> <p>Project management including procurement management, construction management and supervision.</p> <p>Client: Cairo Airport Company</p>
29	El Fenoon Academy 66/11 KV, 3X40 MVA GIS S/S		•	•	•	•	•	•	<p>Detailed design, procurement management, construction and supervision.</p> <p>Owner: Egyptian Electricity Transmission Company – Cairo Zone</p> <p>Client: Control and Instrumentation Systems Technology (CONISYS)</p>
30	El Marg 66/11 KV, 3X40 MVA GIS S/S		•	•	•	•	•	•	<p>Detailed design, procurement management, construction and supervision.</p> <p>Owner: Egyptian Electricity Transmission Company – Cairo Zone</p> <p>Client: Control and Instrumentation Systems Technology (CONISYS)</p>

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31	El Gouna 66/22 KV, 2x25 MVA AIS S/S, Hurgada		•	•	•	•	•	•	<p>Interconnection study, substation detailed design and preparation of packages tender documents.</p> <p>Bids evaluation and assistance in contracts negotiation and award.</p> <p>Project management including procurement management, construction management and supervision.</p> <p>Client: ORASCOM Hotels and Development.</p>
32	Low Cost Housing 66/22 KV, 2x25 MVA AIS S/S, 6 th of October		•	•	•	•	•	•	<p>Interconnection study, substation detailed design and preparation of packages tender documents.</p> <p>Bids evaluation and assistance in contracts negotiation and award.</p> <p>Project management including procurement management, construction management and supervision.</p> <p>Client: ORASCOM Housing Communities.</p>
33	Global 66/22 KV, 2x40 MVA AIS S/S, Sharm El Sheikh		•	•	•	•	•	•	<p>Interconnection study, 66kV interconnection cables and S/S detailed design and preparation of packages tender documents.</p> <p>Bids evaluation and assistance in contracts negotiation and award.</p> <p>Project management including procurement management, construction management and supervision.</p> <p>Client: Global Energy.</p>

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34	Garden City 66/11 2x15 MVA GIS Substation The First underground S/S in Egypt HITACHI / SCG Consortium								<p>Turn key project awarded by Cairo Electricity Company to Consortium of HITACHI/CONISYS (Member of Shaker Consultancy Group)</p> <p>SCG Scope included: Joint supervision with HITACHI of installation, testing and commissioning of 66 KV GIS switchgear. Construction drawings and supervision of the installation, testing and commissioning of 66/11 KV SF6 insulated, 2x15 MVA transformers. Construction drawings and supervision of 11 KV switchgear. Engineering, design and supervision, installation, testing and commissioning, and preparation of as built drawings for electrical and instrumentation cables routing layout, metering schematics, connection and wiring diagrams, lighting system, earthing system, lightning protection system, HVAC system, plumbing system, life safety system, fire alarm and fire fighting system, telephone system and CCTV, civil steel structure design and shop drawings</p>
35	Interagro Diary Farm 66/22 KV Substation								<p>Preparation of tender specifications, construction management, civil and steel structure design and shop drawings, site work supervision and testing and commissioning</p> <p>Client : Interagro</p>
36	Shobrakhiet 66/11KV S/S								<p>SCG scope of work: Soil investigation and soil mechanics report.</p> <p>Client: Egyptian Electricity Transmission Company.</p>
37	Kom Hamada 66/11 KV S/S								<p>Preparation of schematic diagrams for the protection and control system.</p> <p>Client: AREVA T&D</p>
38	Sanaa 33 KV substations (Yemen)								<p>Design and preparation of shop drawings of lighting system, earthing system, lightning protection system and HAVC system.</p>