

## A- ONGOING PROJECTS

### 1- Syria, PEEGT, Indoor GIS Substation 230/66kV in Baniyas power station (0170)

**Customer:** Public Establishment of Electricity for Generation & Transmission  
**Main Contractor:** Consortium Matelec sal and ABB Switzerland  
**Contract Value:** 19 174 383.00 Euros  
16 300 252.00 Swiss Franc  
159 569 315.00 Syrian Pound

**Delivery period:** 20 months

**Scope of Work:** Design, manufacture, supply, transport, insurance, execution of civil works, erection, testing, putting into operation, guarantee, training personnel from PEEGTT, submitting the spare parts and the necessary tools to execute indoor GIS substation 230/66kV in Baniyas power station, on turn-key basis.

- Engineering & execution of a multi storey reinforced concrete structure substation building complete with all associated electro-mechanical installations.
- 230kV gas insulated switchgear (21 bays).
- 66kV gas insulated switchgear (21 bays).
- 2 Power transformers, 230/66kV, 125MVA with fire fighting protection.
- 2 Power transformers 66/20kV 30MVA with fire fighting protection.
- Earthing transformers (4 Nos).
- Protection control and monitoring system.
- Auxiliary power supply equipment (earthing service transformers, generator, DC system, etc...).
- 220kV cables.
- HV/LV cables and accessories.
- Earthing & lightning protection systems.

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### 2- Syria, PEDEEE, 6 Mobile Substations 66/20kV with 20kV GIS Metal Enclosure – (0169)

**Customer:** Public Establishment for Distribution and Exploitation of Electrical Energy  
**Main Contractor:** Matelec sal  
**Contract Value:** 6 911 310.00 Euros  
**Starting period:** August 2008  
**Delivery period:** 50% of the requested quantity within 8 months  
50% of the requested quantity with spare parts within 10 months

**Scope of Work:** Supplying of six Mobile Substations 66/20kV GIS Metal Enclosure Switchgear with Spare Parts.

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### 3- Algeria, Sonelgaz, Extension of Oued Sly, Ahmer el Ain, Bouira and Djebel Onk (0168)

**Customer:** Sonelgaz Transport de l'Electricité  
**Main Contractor:** Matelec sal  
**Contract Value:** 12 024 125.00 Euros  
217 716 922.00 Dinars  
**Starting period:** 08 March 2008  
**Delivery period:** 20 Months

**Scope of Work:**

- Study, design, supply, installation, erection and commissioning of:
- Oued Sly: 3<sup>rd</sup> transformer bay 60/30kV and 2 outgoing line bays 60kV.
- Ahmer el Ain: Extension of 7 line bays 60kV and 1 bay 220kV.
- Bouira: Extension of 2 line bays 60kV.
- Djebel Onk: 3<sup>rd</sup> transformer bay 90/30kV – 20MVA.



**4- Syria, PEEGT, Outdoor Substation (230/66/20) kV – Industrial City – Adra (0166)**

**Customer:** Public Establishment of Electricity for Generation & Transmission  
**Main Contractor:** Consortium Matelec / Crompton Greaves  
**Contract Value:** 14 871 891.00 Euros  
110 876 388.00 SYP  
**Starting period:** June 2008  
**Delivery period:** 18 Months

**Scope of Work:** Design, manufacture, supply, transport, insurance, execution of civil works, erection, testing, putting into operation, guarantee, training personnel from PEEGTT, submitting the spare parts and the necessary tools to execute outdoor substation 230/66/20kV in the industrial City of Adra - Damascus, on turn-key basis.

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**5- Iraq, Mobile 132/11.5kV 16MVA Substation (0167)**

**Customer:** Snafee  
**Owner:** Basrah Governorate - Iraq  
**Main Contractor:** Matelec sal  
**Contract Value:** 780 000.00 Euro  
**Starting period:** 21 November 2007  
**Delivery period:** 9 Months

**Scope of Work:** Supplying of complete 132/11.5kV, 16MVA mobile substation.

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**6- Algeria, Sonelgaz, Lot 4 : Poste 400/220kV de Koudiet Draouch (Hadjar II) (0164)**

**Customer:** Sonelgaz Transport de l'Electricité  
**Main Contractor:** Matelec sal  
**Contract Value:** 39 571 646.00 Euros  
772 804 854.00 Dinars  
**Starting period:** 28 July 2007  
**Delivery period:** 26 Months

**Scope of Work:** Study, design, supply, installation, erection and commissioning of 400/220/31.5kV 300MVA substation of Cheffia at Koudiet Draouch.

- 6 x 400kV Overhead line.
- 4 x 220kV Overhead line.
- 9 Single Phase Power Transformers 400/220/31,5kV 100MVA.
- Protection Control and Monitoring System – Auxiliary Power Supply Equipment (earthing, etc.)
- Telecommunication System.
- LV cables and accessories.
- Earthing and lighting protection systems.

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**7- Dubai, UAE, Construction of Infrastructure Works – Electrical at Jumeirah Golf Estates Phase A (0165)**

**Customer:** Istithmar / Leisurecorp  
**Designor/Supervisor:** Mott MacDonald  
**Main Contractor:** Al Buraq Building Contracting  
**Subcontractor:** Matelec sal  
**Contract Value:** 173 671 425.00 AED  
**Starting period:** 10 August 2007  
**Delivery period:** 10 November 2008

**Scope of Work:** Construction, completion, maintenance and handing-over of infrastructure works consisting of:

- Civil works, earthworks, concrete works and cable works in connection with MV, LV, street lighting, telecommunication and flood lighting.
- 58 MV Ring Main Units substations, 11/0.4kV.
- 69 LV panels, 2500A.
- uPVC ducting, 253kms.
- 42 Feeder Pillars for lighting (FPL), 12 Feeder Pillars for Blowers & Features lamps (FPB) and 18 Sub Main Distribution Board (SMDB).
- 1187 street lighting columns.
- Telecommunication: 2 Main Distribution Frame (MDF), 24 Communication hub and 212 Distribution Switch Panel at man hole.
- 11 submersible pumps.
- 53 flood lights.

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**8- Algeria, Sonelgaz, One Substation 220/30kV El Amiria - Completion & Equipment of the Meeting Room of Ben Aknoun (0161)**

**Customer:** Sonelgaz Transport de l'Electricité  
**Main Contractor:** Matelec sal  
**Contract Value:** 11 019 787.00 Euros  
317 564 522.00 Dinars  
**Starting period:** 22 January 2007  
**Delivery period:** 18 months for the substation El Amiria  
5 months for completion and equipment of the Meeting Room of Ben Aknoun

**Scope of Work:** Engineering, supply, installation, erection and commissioning of 220/30 kV substation at El Amiria:

- 4x220kV conventional line with double busbar.
- 2 power transformers, 220/30/10.5kV, and 120MVA.
- 17x 30kV MV Switchgear.
- 2 Capacitor banks.
- Protection control and monitoring system.
- Auxiliary power supply equipment (earthing service transformers, etc.).
- LV cables and accessories.
- Earthing and lightning protection systems.

Completion and equipment of the Meeting Room of Ben Aknoun including:  
Engineering and execution of multi reinforced concrete structure substations buildings complete with all associated electro-mechanical installations.



**9- Algeria, Sonelgaz, 6 Mobile Substations 60/30kV 20MVA & 4 Mobile Substations 60/10kV 20MVA & 1 Mobile Substation 90-60/30kV 20MVA (0162)**

**Customer:** Sonelgaz Transport de l'Electricité  
**Main Contractor:** Matelec sal  
**Contract Value:** 16 661 033.00 Euros  
153 495 407.00 Dinars  
**Starting period:** 26 December 2006  
**Delivery period:** 12 months

**Scope of Work:** Engineering, supply, erection, and commissioning of mobile substations complete with all equipment, trailer, operating and maintenance manuals and recommended spares:

- 6 mobile substations 60/30kV 20MVA.
- 4 mobile substations 60/10kV 20MVA.
- 1 mobile substation 90-60/30kV 20MVA.

Each mobile substation contains:

- 5 GIS MV Switchgear
- Auxiliary power supply equipment (service transformers, DC system, Generator, etc.).
- Cables and accessories.
- Earthing systems.

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**10- Nigeria, Implementation of Seven New Medium Sized Power Stations in the Niger Delta (0155)**

**Customer:** Niger Delta Power Holding Company of Nigeria  
**Engineer:** Stucky / SGI JV  
**Main Contractor:** Matelec sal  
**Contract Value:** 18 595 681.00 Euro  
996 280 192.00 Naira  
**Starting period:** 03 March 2006  
**Delivery period:** 13 months

**Scope of Work:** Engineering, supply, installation, erection and commissioning of:

**330/132/33kV substation of Ganmo (Ilorin) – Lot 9**

- 2 x 330/132/33kV 150MVA Autotransformers
- 330kV and 132kV Bays
- 2 x 132/33kV 60MVA Transformers.
- 33kV outdoor Switchgear (outdoor type)
- Auxiliary power supply equipment (earthing, service transformers, generator, DC system, etc.)
- HV/LV cables and accessories.
- Earthing and lightning protection systems.
- Protection control and monitoring system.

**330/132/33kV substation extension of Ayede – Lot 9**

- 1 x 330/132/33kV 150MVA Autotransformers.
- 330kV and 132kV Bays.
- 33kV outdoor Switchgear (outdoor type)
- Auxiliary power supply equipment (earthing, service transformers, generator, DC system, etc.)
- HV/LV cables and accessories.
- Earthing and lightning protection systems.
- Protection control and monitoring system.

**Transmission Line 330kV Idofiin (Ilorin)/Ganmo (Ilorin) 12km DC**  
**Transmission Line 132kV Ganmo (Ilorin)/existing Ilorin/Oshogbo 2km DC**



**11- Syria, PEEGT, Indoor GIS Substation 230/66/20kV of Kaboun 3 (0158)**

**Customer:** Public Establishment of Electricity for Generation and Transmission  
**Main Contractor:** Consortium Matelec sal and ABB Switzerland  
**Contract Value:** 16 440 844.00 Euro  
11 815 190.00 Swiss Francs  
87 538 376.00 Syrian Pounds  
**Starting period:** 09 March 2007  
**Delivery period:** 20 months

**Scope of Work:** Design, manufacture, supply, transport, insurance, execution of the civil and erection works testing and putting into service, guarantee training of PEEGT's personnel and submitting the spare parts and the necessary tools for the execution of GIS Indoor substation 230/66/20kV in the area of Kaboun 3.

- Engineering & execution of a multi storey reinforced concrete structure substation building complete with all associated electro-mechanical installations.
- 230kV gas insulated switchgear (15 bays).
- 66kV gas insulated switchgear (19 bays).
- 4 Power transformers, 230/66kV, 125MVA with fire fighting protection.
- 4 Power transformers 66/20kV 30MVA with fire fighting protection.
- 20kV metal clad switchgear (40 Nos).
- Earthing transformers (4 Nos).
- Protection control and monitoring system.
- Auxiliary power supply equipment (earthing service transformers, generator, DC system, etc...).
- HV/LV cables and accessories.
- Earthing & lightning protection systems.

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**12- Lebanon, MEAS, Beirut International Airport (0112)**

**Customer:** MEAS (Middle East Airports Services)  
**Owner:** Beirut International Airport  
**Consultant:** MEAS (Middle East Airports Services)  
**Main Contractor:** Matelec  
**Contract Value:** 1 069 965.00 US Dollars  
**Starting period:** 01 October 1998  
**Delivery period:** 31 December 2008 (Renewable)

**Scope of work:** Operation & Maintenance of:

- The main substation including 22 MV metal clad switchgears.
- The 23 secondary substations including 70 MV metal enclosed switchgears and 27 cast resin transformers.

## B- COMPLETED PROJECTS (1988 - 2007)

### 1- Syria, PEEGT, Extension of Aleppo D GIS S/S & 66kV Bays & 20kV Bays (0159)

**Customer:** Public Establishment of Electricity for Generation and Transmission  
**Main Contractor:** Matelec sal  
**Contract Value:** 1 777 377.00 Euro  
 17 853 850.00 Syrian Pounds  
**Starting period:** 15 December 2006  
**Delivery period:** 16 months

**Scope of Work:** Design, manufacture, supply, transport, insurance, execution of the civil and erection works, testing and putting into service for the extension of Aleppo D GIS Indoor substation.

- Engineering and execution of a reinforced concrete structure substation building complete with all associated electro-mechanical installations for the MV switchgear.
- 66kV gas insulated switchgear (4 bays).
- 20kV metal clad switchgear (14 Nos).
- Earthing transformers (1 Nos).
- Protection control and monitoring system.
- Auxiliary power supply equipment (earthing service transformers, etc...).
- HV/LV cables and accessories.

### 2- Senegal, Senelec, Realization of Kounoune 60MW Power Plant – BOO (0148)

**Customer:** Senelec  
**Owner:** Kounoune Power, Senegal  
**Main Contractor:** Groupement Mitsubishi / Matelec  
**Engineer:** Stucky  
**Contract Value:** 55 000 000.00 Euros (Matelec share 30 500 000.00 Euros)  
**Starting period:** 28 February 2005  
**Inaugurated:** 22 January 2008

**Scope of work** Developing, building and operating a 67.5MW heavy fuel power plant, based on a 15-year BOO contract with the local utility Senelec. The plant includes 9 diesel engines of 7.5MW each complete with all ancillary equipment, 90kV substation, fuel storage and pipeline. This project is developed in partnership with MHI Equipment Europe, who has the overall construction responsibility along with Operation and Maintenance. This project benefits from a long term financing package by international institutions lead by the International Finance Corporation (World BankGroup). The works consisted of engineering, supply, erection and commissioning of:

- 9 Diesel engines, 7.5MW each.
- 90kV conventional HV yard.
- 2 Power transformers, 15/90kV, 50/63/75MVA.
- 15kV MV Switchgears.
- 9 MV generators.
- Protection control and monitoring system.
- Auxiliary power supply equipment.
- HV/LV cables and accessories.
- Earthing and lightning protection systems.
- Fuel and oil treatment systems.
- Steam production system.
- Aerorefrigerators.
- Combustion air and exhaust piping.



**3- Lebanon, Solidere, Beirut West Marina (0146)**

**Customer:** The Lebanese company for the development and reconstruction of Beirut Central District (Solidere)  
**Main Contractor:** Matelec sal  
**Contract Value:** 385 800.00 Euros  
**Starting period:** 31 August 2004  
**Delivery period:** 29 August 2007 (Was on hold because of events in Beirut Central District)

**Scope of work:** Supply, installation and testing of:

- 1 x 2000kVA step-up transformer - 0.4/20kV.
- 2 x 1000kVA step-up transformers - 0.4/20kV.
- 1 x 750kVA step-up transformer - 0.4/20kV.
- 24kV switchgears.
- Computer control & monitoring system (CCMS).
- DC system.
- Prefabricated housing for the above.

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**4- Algeria, Sonelgaz, Etage 220kV de Souk Ahras (0149)**

**Customer:** Sonelgaz Transport de l'Electricité  
**Main Contractor:** Matelec sal  
**Contract Value:** 5 434 885.00 Euros  
57 875 543.00 Dinars  
**Starting period:** 08 September 2005  
**Delivery period:** 25 May 2007

**Scope of Work:** Design, supply, installation, testing and commissioning of 220 kV Souk Ahras substation:

- Engineering and execution of multi reinforced concrete structure substation building, complete with all associated electro-mechanical installations.
- 220kV conventional HV yard.
- 2x90kV conventional incoming transformer bays.
- 2 power transformers, 220/90/10kV.
- Protection control and monitoring system.
- Auxiliary power supply equipment (earthing service transformers, etc.).
- HV/LV cables and accessories.
- Earthing and lightning protection systems.

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**5- Iraq, 33/11kV, 31.5MVA Substation (0163)**

**Customer:** Snafee  
**Main Contractor:** Matelec sal  
**Contract Value:** 2 075 156.00 USD  
**Starting period:** 10 May 2007  
**Delivery period:** 31 January 2008

**Scope of Work:** Engineering, procurement, erection, and commissioning of the electrical equipment for 1x33/11kV, 31.5MVA substation for Iraq.

- Auxiliary power supply equipment (service transformers, DC system, etc.).
- Cables and accessories.
- Earthing and lightning protection systems.
- Control and Protection Panel.



**6- Iraq, 1x33/11kV, 16MVA Substation & 132/11kV, 25MVA 2 Mobile Substations (0160)**

**Customer:** Snafee  
**Main Contractor:** Matelec sal  
**Contract Value:** 3 310 000.00 Euro  
**Starting period:** 16 November 2006  
**Delivery period:** 10 July 2007

**Scope of Work:** Engineering, procurement, erection, and commissioning of the electrical equipment for 1x33/11kV, 16MVA, substation for Iraq.

- Auxiliary power supply equipment (service transformers, DC system, etc.).
- Cables and accessories.
- Earthing and lightning protection systems.
- Control and Protection Panel.

Engineering, procurement, erection, and commissioning of 2 mobile substations, 132/11kV, 25 MVA, for Iraq.

- Auxiliary power supply equipment (service transformers, DC system, etc.).
- Cables and accessories.
- Earthing and lightning protection systems.
- Control and Protection Panel.

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**7- Algeria, Sonelgaz, One substation 220/60kV Ahmer El Ain (0152)**

**Customer:** Sonelgaz Transport de l'Electricité  
**Main Contractor:** Matelec sal  
**Contract Value:** 11 508 603.00 Euros  
206 958 172.00 Dinars  
**Starting period:** 28 January 2006  
**Delivery period:** 21 November 2007

**Scope of Work:** Engineering, supply, installation, erection and commissioning of 220/60 kV Ahmer El Ain substation:

- Engineering and execution of multi reinforced concrete structure substation building complete with all associated electro-mechanical installations.
- 9 x 220kV conventional line with double busbar.
- 4 x 60kV conventional line with double busbar
- 3 x 60kV incoming transformer bays.
- 3 power transformers, 220/60/10kV, 120MVA.
- Protection control and monitoring system.
- Auxiliary power supply equipment (earthing service transformers, etc.).
- LV cables and accessories.
- Earthing and lightning protection systems.

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**8- Syria, PEEGT, Extension of Al Zahira and Ibn Al Nafis 230/66kV GIS Substation (0153)**

**Customer:** Public Establishment of Electricity for Generation and Transmission (PEEGT)  
**Main Contractor:** Matelec sal  
**Contract Value:** 3 558 677.00 Euro  
10 788 595.00 Syrian Pounds  
**Starting period:** 07 November 2006  
**Delivery period:** 05 November 2007

**Scope of Work:** Design, manufacture, supply, transport, erection, civil and construction works, testing putting into operation, guarantee and submitting the spare parts and necessary tools for the extension of two indoor substations 230/66kV of GIS type in each of Al Zahera and Iben Nafees on turnkey basis.

- Engineering and execution of a reinforced concrete structure substation building complete with all associated electro-mechanical installations for the MV switchgear.
- 2 x cable feeder bay 230kV (GIS) single busbar.
- 4 x cable feeder bay 66kV (GIS) double busbar.
- 2 x transformer bays 66kV (GIS) double busbar.
- Auxiliary power supply equipment (earthing service transformers, etc.).
- Cables and accessories.
- 20kV metal clad switchgear.
- Protection control and monitoring system.
- Erection of 2 power Transformers 66/20kV 30MVA.

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**9- Iraq, One 132/33kV, 25MVA, Mobile Substation (0154)**

**Customer:** Iraq Projects and Contracting Office (PCO)  
**Main Contractor:** Matelec sal  
**Contract Value:** 1 152 700.00 Euro  
**Starting period:** 23 February 2006  
**Delivery period:** 17 January 2007

**Scope of Work:** Engineering, procurement, supply, erection, and commissioning of one mobile substation 132/33kV, 25MVA, for Samarra, Iraq:

- Power transformer 132/33 kV, 25MVA.
- Auxiliary power supply equipment (service transformers, DC system, etc.).
- Cables and accessories.
- Earthing and lightning protection systems.
- Control and Protection Panel.

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**10- Syria, PEEGT, Two Indoor substations 230/66/20kV GIS in Aleppo D & Bab Sharki (0144)**

**Customer:** Public Establishment of Electricity for Generation and Transmission (PEEGT)  
**Main Contractor:** Matelec sal  
**Contract Value:** 23 530 074.00 Euros  
76 826 912.00 Syrian Pounds  
Extension of 20kV (0150):  
997 838.00 Euros  
20 000 000.00 Syrian Pounds  
**Starting period:** 03 September 2004  
**Delivery period:** 29 September 2005 & 30 September 2007 (Extension of 20kV)

**Scope of work:** Designing, manufacturing, supplying, transporting, insuring, erecting, executing the civil and construction works, testing, putting into operation, guarantee and training PEEGT's personnel and submitting the spare parts and the necessary tools for executing Two indoor substations 230/66/20kV of GIS type in Aleppo D (Aleppo) and Bab Sharki (near Damascus) on turnkey basis, including:



- Engineering and execution of a multi storey reinforced concrete structure substation building, complete with all associated electro-mechanical installations.
- 230kV metal clad, gas insulated switchgear.
- 66kV metal clad, gas insulated switchgear.
- 3 power transformers, 230/66 kV (each substation).
- 2 power transformers 66/20kV (each substation).
- 20kV metal clad switchgear.
- Earthing transformers
- Protection control and monitoring system.
- Auxiliary power supply equipment (earthing service transformers, generator, DC system, etc.)
- HV/LV cables and accessories.
- Earthing and lightning protection systems.

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**11- Syria, PEEGT, Rasafeh 230/66/20kV conventional substation (0141)**

**Customer:** Public Establishment of Electricity for Generation and Transmission (PEEGT)  
**End user:** Syrian Petroleum Company  
**Main Contractor:** Matelec sal  
**Contract Value:** 3 823 268.00 Euros  
**Starting period:** 01 December 2004  
**Delivery period:** 29 September 2005

**Scope of work:** Design and supply of equipment for the construction of 230/66/20kV substation at Al-Rasafeh:

- 230 kV conventional HV yard.
- 66kV conventional HV yard.
- 2 power transformers, 230/66/20kV
- 20 kV metal clad switchgears with vacuum breakers.
- Protection control and monitoring system.
- Auxiliary power supply equipment (service transformers, DC system, etc.)
- Cables and accessories.
- Earthing and lightning protection systems.

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**12- Iraq, UNDP, Mobile substations (0147)**

**Customer:** United Nations Development Program (UNDP)  
**Owner:** Iraq Electricity  
**Main Contractor:** Matelec sal  
**Contract Value:** 3 207 914.00 US Dollars  
**Starting period:** 10 June 2004  
**Delivery period:** 23 May 2005

**Scope of work:** Engineering, Manufacturing and testing of three mobile substations, complete with all equipment, trailer operating and maintenance manuals and recommended spares for 3 years of operation:

- 2 x 132/33kV – 25MVA & 1 x 132/11kV – 25MVA
- Auxiliary power supply equipment (service transformers, DC system, etc.).
- Cables and accessories.
- Earthing and lightning protection systems.



**13- Syria, SCOT, 230/11kV substation at T3 (0143)**

**Customer:** Syrian Company for Oil Transport (SCOT)  
**Owner:** Syrian Company for Oil Transport (SCOT)  
**Main Contractor:** Matelec sal  
**Contract Value:** 3 059 839.00 Euros  
12 000 000.00 Syrian Pounds  
**Starting period:** 22 January 2004  
**Delivery period:** 15 April 2005

**Scope of work:** Study, design, supply, installation and commissioning of T3 230/11kV outdoor electrical substation with training and spare parts:

- Engineering and execution of reinforced concrete structure substation building complete with all associated electro-mechanical installations.
- 230kV conventional HV yard.
- 2 power transformers, 230/11kV.
- 11kV metal clad switchgears with SF6 breakers.
- Protection control and monitoring system.
- Auxiliary power supply equipment (service transformers, DC system, etc.).
- Cables and accessories.
- Earthing and lightning protection systems.

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**14- Algeria, Sonelgaz, Three 220/60/30kV substations, three links (60kV & 220kV) and one 60kV overhead line at Sidi Aich, Akbou and Bejaia 2 (0145)**

**Customer:** Société Algérienne d'Électricité et de Gaz (Sonelgaz)  
**Main Contractor:** Matelec sal  
**Contract Value:** 16 300 603.00 Euros  
693 461 730.00 Dinars  
**Starting period:** 11 May 2004  
**Delivery period:** 09 September 2005

**Scope of work:** Study, design, supply, installation, erection and commissioning of lot 1:

- 60/30kV substation of Sidi Aich.
- 220/60/30kV substation of Akbou.
- 60/30kV substation of Bejaia 2.
- Link at Akbou of 220kV line Darguina-Bouira.
- Link at Sidi Aich of 60kV line Akbou-Elkseur.
- Link at Bejaia of 60kV line Darguina-Bejaia.
- Rehabilitation of 60kV line Darguina-Bejaia.

Including:

- Engineering and execution three multi reinforced concrete structure substations buildings, complete with all associated electro-mechanical installations.
- 220kV conventional HV yard.
- 60kV conventional HV yard.
- 2 power transformers, 220/60/10kV.
- 2 power transformers, 60/30kV.
- Protection control and monitoring system.
- Auxiliary power supply equipment (earthing service transformers, generator, DC system, etc.)
- 60kV overhead line.
- 2 links 60 kV overhead lines.
- 1 link 220kV overhead line.
- HV/LV cables and accessories.
- Earthing and lightning protection systems.

**15- Lebanon, EDL, Faytroun 66kV substation & 66kV bay at Bickfaya substation (0138)**

**Customer:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF)  
**Main Contractor:** Alstom – René Moretti and Partners  
**Subcontractor:** Matelec sal back to back for the whole contract  
**Matelec Contract:** 649 619.00 Euros  
1 943 921 US Dollars  
**Starting period:** 08 April 2003  
**Delivery period:** 18 May 2005

**Scope of work:** Engineering of reinforced concrete multi storey structure substation building, complete with all associated electro-mechanical installations:

- 66 kV conventional HV yard.
- 66KV overhead line bay at Bikfaya substation.
- 2 power transformers, 66/20kV.
- 20kV metal clad switchgears with SF6 breakers.
- Protection control and monitoring system.
- Auxiliary power supply equipment (service transformers, generator, DC system, etc.).
- Cables and accessories.
- Earthing and lightning protection systems.

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**16- Iraq, SCOP, Rehabilitation of FAO oil farm, 3 mobile substations 25MVA 132/11kV (0130)**

**Customer:** Ministry of Oil Economics and Finance Department (EFD) – State Company for Oil Projects (SCOP)  
**Owner:** South Oil Project (SOP)  
**Main Contractor:** Matelec sal  
**Contract Value:** 2 872 452.00 Euros  
**Starting Period:** 29 May 2002  
**Delivery Period:** 25 February 2003

**Scope of work:**

- Global project management.
- Design, assembly & delivery of 3 mobile substations 132/11.5kV, 25 MVA.
- Design, manufacture & delivery of 21 cubicles 11kV.
- Design, purchase and supply of low voltage cables.
- Design, purchase and supply of external lighting.

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**17- Syria, PEEGT, Design and supply of ten transformer feeder bays (230kV) and ten incoming bays (66kV) (0129)**

**Customer:** Public Establishment for Electricity Generation and Transmission (PEEGT)  
**Main Contractor:** Matelec sal  
**Contract Value:** 3 225 746.00 Euros  
**Starting Period:** 06 January 2002  
**Delivery Period:** 06 November 2002

**Scope of work:**

- Global project management.
- Design, manufacture & delivery of the protection and control systems.
- Study, procurement & delivery of the 230kV and 66kV equipment: circuit breakers, disconnect switches, voltage and current transformers, surge arresters, tension and suspension insulators, post insulators, steel structure, busbar and HV connections, connectors, grounding, etc.



**18- Syria, SCOT, 230/11kV substation at T2 (0134)**

**Customer:** Syrian Company for Oil Transport (SCOT)  
**Main Contractor:** Matelec sal  
**Matelec contract:** 3 440 074.00 US Dollars  
**Starting Period:** 20 January 2003  
**Delivery Period:** 15 March 2004

**Scope of work:** Study, design, supply, installation, testing and commissioning of 230/11kV outdoor electrical substation at T2 and training with required spare parts for five years operation on turnkey basis:

- Engineering and execution of reinforced concrete structure substation building, complete with all associated electro-mechanical installations.
- 230 kV conventional HV yard.
- 2 power transformers, 230/11kV.
- 20 kV metal clad switchgears with SF6 breakers.
- Protection control and monitoring system.
- Auxiliary power supply equipment (service transformers, generator, DC system, etc.)
- Cables and accessories.
- Earthing and lightning protection systems.

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**19- Lebanon, EDL, Bsalim 220kV GIS substation (0126)**

**Customer:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF)  
**Main Contractor:** ABB Electrical Company  
**Subcontractor:** Matelec sal  
**Matelec contract:** 1 540 420.00 US Dollars  
403 930.00 Euros  
1 779 470.00 Swiss Francs  
**Year:** 2002 – 2003

**Scope of work:**

- Design, manufacture and supply of control protection panels.
- Engineering and design of the substation.
- Erection, testing & commissioning.

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**20- Egypt, CETC, El Nozha 66kV GIS substation (0124)**

**Customer:** Cairo Electricity Transmission Company (CETC)  
**Contractor:** GE-Hitachi HVB  
**Subcontractor:** Matelec sal back to back for the whole contract  
**Contract Value:** 4 000 000.00 US Dollars  
6 901 667.00 Egyptian Pounds  
**Starting Period:** 10 December 2001  
**Delivery Period:** 13 August 2002

**Scope of work:** The development and the detailing of the design and the construction of a 66kV Gas Insulated Substation including design, procurement of materials, deliveries to site, installation and equipment erection, testing, commissioning up to the final taking-over certificate, training of operation and maintenance personnel.

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**21- Lebanon, CDR, Expansion of Power Transmission System – Section 1 (One GIS substation 220/20kV at Ras Beirut) (0107)**

**Employer:** Council for Development and Reconstruction (CDR)  
**Owner:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF)  
**Main contractor:** Schneider Electric sa  
**Subcontractor:** Matelec sal  
**Contract Value:** 14 149 350.00 US Dollars  
**Matelec contract:** Equivalent to 3,500,000 US Dollars  
**Delivery period:** 18 to 30 months  
**Year:** 31 December 2001

**Scope of work:** Site surveying, design, procurement of materials, delivery to site, civil works, equipment erection, testing, commissioning up to the final taking-over certificate, training of operation and maintenance personnel.  
Supplied equipment:

- MV switchgear type FLUAIR 300
- Control/protection/measuring system
- AC/DC systems
- Cables
- MV transformers
- Auxiliaries,

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**22- KSA, Royal Commission, Yanbu substation (0125)**

**Customer:** Arabian Contracting Association Co. (ARCAN)  
**Owner:** Royal Commission  
**Subcontractor:** Matelec sal  
**Matelec contract:** Equivalent to 700 000.00 US Dollars  
**Delivery period:** 6 to 10 months  
**Year:** February 2002

**Scope of work:** Supply, installation, testing and commissioning of 34.5kV & 13.8kV MV metal-clad withdrawable switchgears.

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**23- Lebanon, South Bekaa Irrigation Project: Karaoun 66/5.5kV substation**

**Customer:** Council for Development and Reconstruction (CDR)  
**Owner:** Litani River Authority  
**Consultant:** Cadres  
**Main Contractor:** Butec sal  
**Subcontractor:** Matelec sal  
**Matelec contract:** Equivalent to 950 000.00 US Dollars  
**Year:** 2001

**Scope of work:** Design, delivery of HV & MV switchgears, control/protection, erection, testing, commissioning.

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**24- Lebanon, EDL, Repair of the damaged electrical facilities in Lebanon - Supply & erection of 66kV and MV bays - Activity no. 8.**

**Customer:** Kuwait Fund for Arab Economic Development  
**Owner:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF).  
**Contractor:** Dyar for trading and contracting  
**Subcontractor:** Matelec sal  
**Matelec contract:** 6 179 104.00 DEM (equivalent to 3,000,000 US Dollars)  
**Deliver period:** 18 months  
**Year:** End of 2002

**Scope of work:**

- Manufacture, testing, erection and commissioning of **84** cubicles type UNIVER C (ABB SACE).
- Study, procurement, delivery, erection and commissioning of 66kV equipments for 6 bays.
- Design, manufacture, testing, erection and commissioning of control panels.
- Civil works modifications at site.
- Substations: Jeita, Bikfaya, Halba, Hermel, Baouchrieh, Airport and Marjeyoun.

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**25- Lebanon, EDL, Jamhour 150/66/11kV conventional substation**

**Customer:** Kuwait Fund for Arab Economic Development  
**Owner:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF)  
**Contractor:** ABB Electrical Company  
**Subcontractor:** Matelec sal  
**Matelec contract:** Equivalent to 400,000 US Dollars  
**Deliver period:** 10 months  
**Year:** 2001

**Scope of work:** Engineering and delivery, testing and commissioning for control/protection for the 3 new power transformers 120 MVA, 150/66kV.

**26- Lebanon, EDL, Deir Nboh conventional 220kV substation**

**Customer:** Kuwait Fund for Arab Economic Development  
**Owner:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF).  
**Contractor:** ABB Electrical Company  
**Subcontractor:** Matelec sal  
**Matelec contract:** Equivalent to 350,000 US Dollars  
**Deliver period:** 12 months  
**Year:** September 2001

**Scope of work:** Engineering and design, testing and commissioning for the replacement of the damaged circuit breakers, marshalling kiosks and disconnectors for 3 new 220kV bays.

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**27- Lebanon, EDL, Beddawi Power Plant 220kV substation**

**Customer:** Kuwait Fund for Arab Economic Development  
**Owner:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF)  
**Contractor:** GE-HITACHI HVB  
**Subcontractor:** Matelec sal  
**Matelec contract:** Equivalent to 250 000.00 US Dollars  
**Deliver period:** 10 months  
**Year:** May 2001

**Scope of work:** Engineering and design, testing and commissioning for the temporary connection of the power plant, through 220kV dead tank circuit breakers, to the grid for providing load, which was lost due to the bombing of the 220kV GIS.

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**28- Lebanon, CDR, Expansion of Power Transmission System - section 1: 3 GIS 220/20kV substations at Pins, Mkalles & Aramoun**

**Customer:** Council for Development and Reconstruction (CDR)  
**Consultant:** Électricité de France  
**Main contractor:** Schneider Electric  
**Subcontractor:** Matelec sal  
**Contract Value:** 71 550 650.00 US Dollars  
**Matelec Contract:** 17 800 000.00 US Dollars  
**Deliver period:** 18 to 30 months  
**Year:** May 2001

**Scope of work:**

- The development and the detailing of the design and the construction of 3 multi storey 220kV Gas Insulated Substations at Aramoun, Mkalles and Pins.
- The contract included, site surveying, design, procurement of materials, deliveries to site, civil works, equipment erection, testing, commissioning up to the final taking-over certificate, training of operation and maintenance personnel.

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**29- Lebanon, Solidere, Beirut Central District - 225kV Substation: GIS 220/20kV & GIS 66/20kV**

**Employer:** The Lebanese company for the development and reconstruction of Beirut Central District (Solidere)  
**Consultant:** Dar al-Handasah Shair and partners  
**Contractor:** Consortium GE-Hitachi HVB / Matelec -Melec JV.  
**Contract Value:** 30 650 000.00 US Dollars  
**Deliver period:** 20 months  
**Year:** 1997 – 1998      **Operation & Maintenance (1999-2000)**

**Scope of work:** The development and the detailing of the design and the construction of a multi storey 220kV and 66kV Gas Insulated Substations including site surveying, design, procurement of materials, deliveries to site, civil works, equipment erection, testing, commissioning up to the final taking-over certificate, training of operation and maintenance personnel.  
 After completion of the project, Matelec handled 24/7 Operation and Maintenance of the substation for 18 months

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**30- Lebanon, EDL, Deir Nbouh substation: 220/150/66kV**

**Customer:** Électricité du Liban (EDL)  
**Consultant:** Électricité du Liban (EDL)  
**Contractor:** Consortium ABB – Matelec – Melec  
**Contract Value:** 8 700 000.00 US Dollars  
**Deliver period:** 12 months  
**Year:** 1998

**Scope of work:**

- Rehabilitation of: 12 bays 66kV (conventional)  
7 bays 150kV (conventional)
- Addition of an extension of 10 bays 220kV (conventional)
- Including study, design, delivery, civil works, erection, testing and commissioning of HV equipment, Control, Protection and AC/DC Auxiliary systems.

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**31- Lebanon, EDL, Rehabilitation of the Lebanese power network – Lot B (66/15-11kV substations)**

**Customer:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF)  
**Main Contractor:** Hyundai  
**Subcontractor:** Matelec sal  
**Contract Value:** 18 000 000.00 US Dollars  
**Deliver period:** 12 months  
**Year:** 1994-1995

**Scope of work:**

- Design and supply of earthing coils and auxiliary transformers.
- Design, supply and commissioning of 400 metal clad withdrawable switchgears, type Fluair 300.
- Design, supply and commissioning of the low voltage (control & protection) of 52 substations (66kV).
- Preparation of approval documents and technical coordination with the consultant
- Mounting, supervision, testing and commissioning until obtaining the take over certificate of the consultant.
- Auxiliary services (DC & AC workshops)

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**32- Lebanon, EDL, Rehabilitation of the Lebanese distribution sector – Lot C1 (15-11kV substations)**

**Customer:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF)  
**Main Contractor:** Clemessy  
**Subcontractor:** Matelec  
**Contract Value:** 37 400 211.00 French Francs  
**Deliver period:** 18 months  
**Year:** 1994-1995

**Scope of work:**

- Supply of 533 distribution transformers.
- Supply of 1350 metal enclosed switchgears, type SM6 (IM, QM, DM1, DM2).
- Supply of a prefabricated substation (kiosk type).

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**33- Lebanon, EDL, Rehabilitation of the Lebanese distribution sector – Lot C2 (15-11kV substations)**

**Customer:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF)  
**Main Contractor:** Bouygues  
**Subcontractor:** Matelec sal  
**Contract Value:** 20 768 526.00 French Francs  
**Deliver period:** 18 months  
**Year:** 1994-1995

**Scope of work:**

- Supply of **525** distribution transformers.
- Supply of **433** metal enclosed switchgears, type SM6 (IM, QM, DM2, DM1, IBM, GBM).
- Supply of **6** prefabricated substations (kiosk type).

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**34- Lebanon, EDL, Rehabilitation of Jamhour & Bsalim substations (93/94) (220/66/20kV)**

**Customer:** Council for Development and Reconstruction (CDR)  
**Consultant:** Électricité du Liban (EDL)  
**Main Contractor:** Matelec – Melec sa - SNT - USSI JV  
**Contract Value:** 41 000 000.00 French Francs  
**Deliver period:** 12 months  
**Year:** 1993-1994

**Scope of work:**

- Design, realization, supply, installation and commissioning with the civil works of **10** new 220kV conventional bays replacing the existing ones (150kV).
- Rehabilitation of the MV part (24kV): control, protection, power transformers, lighting, auxiliary part, fire protection.
- Rehabilitation of 30 x 66kV conventional bays.

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**35- Lebanon, EDL, Rehabilitation of Jamhour & Bsalim substations (1996) (220/66/20kV)**

**Customer:** Électricité du Liban (EDL)  
**Consultant:** Électricité du Liban (EDL) / Électricité de France (EDF)  
**Main Contractor:** Matelec – Melec sal  
**Contract Value:** 1,200,000 US Dollars  
**Deliver period:** 12 months  
**Year:** 1993-1994

**Scope of work:**

- Same project as previous (No 19) project achieved after the destruction of Jamhour and Bsalim substations in 1996.
- Rehabilitation of **30** x 66kV conventional bays: design, installation and commissioning+ civil works.

**36- Lebanon, MEAS, Beirut International Airport**

**Owner:** MEAS  
**Main Contractor:** Debbas Entreprise  
**Subcontractor:** Matelec sal  
**Consultant:** Dar Al Handasah Shair & Partners  
**Contract Value:** 9 950 000.00 French Francs  
**Year:** 1998

**Scope of work:**

- Design, supply, supervision of mounting, testing and commissioning of the main substation **including** 22 MV metal clad switchgears.
- Design, supply, supervision of mounting, testing and commissioning of **23** secondary substations including **70** MV metal enclosed switchgears and **27** cast resin transformers.



- Design, supply and commissioning of the Power Management System.
-



**37- Lebanon, CDR, Underground cable 220kV between Bahsas and IPC substations**

**Employer:** Council for Development and Reconstruction (CDR)  
**Owner:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF)  
**Main contractor:** Pirelli  
**Subcontractor:** Melec sal  
**Matelec contract:** Equivalent to 3 180 000.00 US Dollars  
**Delivery period:** 6 months  
**Year:** 1999

**Scope of work:** Installation, civil & electromechanical, testing & commissioning of Cu/XLPE underground power cables 220kV 1200mm<sup>2</sup> (length = 90kM, 2 feeders).

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**38- Lebanon, EDL, Underground power cables 66kV between Jamhour and Hazmieh substations**

**Employer:** Électricité du Liban (EDL)  
**Consultant:** Électricité de France (EDF)  
**Main contractor:** Melec sal  
**Matelec contract:** Equivalent to 3 600 000.00 US Dollars  
**Delivery period:** 5 months  
**Year:** 1995

**Scope of work:** Supply, Installation, civil & electromechanical, testing & commissioning of Cu/XLPE underground power cables 66kV 300mm<sup>2</sup> (length = 55kM, 3 feeders)

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**39- Lebanon, Solidere, Underground cable 66kV and related accessories in BCD**

**Employer:** The Lebanese company for the development and reconstruction of Beirut Central District (Solidere)  
**Owner:** Électricité du Liban (EDL)  
**Consultant:** Dar El Handasah  
**Main contractor:** Melec sal  
**Matelec contract:** Equivalent to 3 040 000.00 US Dollars  
**Delivery period:** 2 months  
**Year:** 1996

**Scope of work:** Supply, Installation, civil & electromechanical, testing & commissioning of Cu/XLPE underground power cables 66kV 300mm<sup>2</sup> (length = 50kM, 3 feeders)

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**40- Lebanon, EDL, Medium Voltage substation at Bsalim**

**Customer:** Électricité du Liban (EDL)  
**Contractor:** Matelec sal  
**Contract Value:** 2 997 000.00 FRF  
**Deliver period:** 4 months  
**Year:** In progress

**Scope of work:** Supply, installation, testing and commissioning of 28 MV metal-clad withdrawable switchgears with the control panel.

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**41- Lebanon, Casino du Liban**

**Customer:** Arabian Contracting Association Co. (ARCAN)  
**Consultant:** Dar al Handasah  
**Contract Value:** 182 500.00 US Dollars + 62 000.00 US Dollars  
**Deliver period:** 4 months  
**Year:** 1996 – 1997

**Scope of work:** Supply of 6 cast resin transformers and medium voltage metal enclosed switchgears

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**42- Lebanon, Sport City project**

**Customer:** Ellis Sukkar JV  
**Consultant:** Laceco  
**Contract Value:** 368,145 US Dollars  
**Deliver period:** 4 – 5 months  
**Year:** 1996

**Scope of work:** Supply of distribution transformers and medium voltage metal enclosed switchgears

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**43- Lebanon, Sidem Factory**

**Customer:** Sidem  
**Consultant:** Matelec sal  
**Contract Value:** 3 300 000.00 French Francs  
**Year:** 1992 – 1994

**Scope of work:** The protection part, the synchronizing of the generator power station (6 x 1800kVA) and the load shedding system by PLC.

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**44- Lebanon, Hotel Dieu of Lebanon**

**Owner:** Hotel Dieu de France  
**Main Contractor:** Debbas Entreprise  
**Subcontractor:** Matelec sal  
**Contract Value:** 4 200 000.00 French Francs  
**Delivery period:** 4 months

**Scope of work:** Supply and commissioning of many LV general boards.  
Paralleling operation of electrical groups

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**45- Syria, Congress palace - Damascus: site O.C.C.**

**Customer:** Oger Lebanon  
**Consultant:** Oger International  
**Contract Value:** 30 000 000.00 FRF  
**Deliver period:** 12 months  
**Year:** 1988-1989

**Scope of work:**

- Lot 561: Design, supply, mounting and commissioning of a HV & MV substation (Consortium in partnership with Merlin Gerin DRE).
- Lot 560: Supply, commissioning and exploitation of a generating 20kV MV/LV station, equipped with an automated centralized system.
- Lot 570: Supply, commissioning and exploitation of the LV general boards sets.

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**46- Syria, People palace - Damascus: Site P.P.S.A.R**

**Customer:** Oger Lebanon  
**Consultant:** Oger International  
**Contract Value:** 7 000 000.00 French Francs  
**Deliver period:** 6 months  
**Year:** 1988 – 1989

**Scope of work:**

- Re-handling and rehabilitation of the HV/MV substations that had been confided to the companies SIEMENS and AEG.
- Lot 560: Improvement of the exploitation and of the security of the MV/LV system by: design, supply, commissioning and exploitation of an automated centralized system.
- Supply and commissioning of: MV/LV outdoor lighting bay, electrical boards for the power supply of the irrigation system, many MV and LV electrical boards.

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**47- Lebanon, Wadi-Jilou pumping station**

**Customer:** Geneco  
**Consultant:** Canal de Provence  
**Contract Value:** 4 500 000.00 French Francs  
**Deliver period:** 8 months  
**Year:** 1990 – 1991

**Scope of work:**

- MV/LV electrical lot, control, remote transmission, remote measuring of a pumping system
- General LV boards
- 24kV metal enclosed MV switchgears
- Starting autotransformers
- MV/LV distribution transformers
- Hydraulic instrumentation, remote control and remote transmission
- Automation.

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**48- Senegal, Dakar, Oger Project**

**Customer:** Saudi Oger  
**Consultant:** Oger International  
**Contract Value:** 3 000 000.00 French Francs  
**Year:** 1990

**Scope of work:** Supply and commissioning of many LV general boards. Congress Center. Residence Hotel.

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**49- Morocco, Oger Project**

**Customer:** Saudi Oger  
**Consultant:** Oger International  
**Contract Value:** 2 800 000 French Francs  
**Year:** 1989 – 1990

**Scope of work:**

- Supply and commissioning of many LV general boards.
- Cultural Center: site 6025.
- Extension of the Fez palace: site 6024.
- Extension of the Tanger palace: site 6023.
- Private residence ANFA: site 6019.

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