Alstom in Greece

Over 30 years of contribution to Greece

Alstom’s Presence in Greece

Key Data:
- Over 120 Employees
- 2 Subsidiaries (Alstom Hellas [PO+TRA], Alstom Grid Hellas)
- 3 Branches
- Alstom is leader in Transport Business & Thermal Services

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References and Ongoing Projects

Power

Thermal Services

Alstom Thermal Services is the No.1 Service Provider in the Thermal Electricity Market having served its Clients in Greece and Cyprus for over 30 years. In 2001 a dedicated Local Service Center (LSC) was established in Athens, in order to serve the significantly growing Alstom installed base fleet (Gas Turbines, Steam Turbines, Generators, Boilers, Air Quality Control Systems, etc.) in operation from our Clients in both Greece and Cyprus. Alstom serves our Customers within the complete industrial range, including Public and Independent Power Providers (IPP), refineries and co-generation industries.

The LSC has an extensive experience and strong know-how, with a solid, dedicated, specialized and award winning workforce, organized in a way to be responsive and efficient within the demanding and ever changing energy market.

Our Achievements

The Local Service Center (LSC) Team has achieved significant organic and market growth within the last years of recession. Already within the last 3 fiscal years, the LSC has achieved substantial growth both in terms of KPIs but more importantly by adding new Customers in our offering and at the same time executing in excellence complex and demanding projects.

For the continuous effort and substantial growth, the LSC Team received in October 2012, the ALSTOM Thermal Services South East Europe “Excellence Team Award” for the outstanding performance in Fiscal Year 2012/2013.

Reflecting this success and more notably, was the receipt in June 2013 of an Appreciation Letter from our Client the Electricity Authority of Cyprus, for the outstanding work and result achieved in the course of the restoration of the Vasilikos Power Plant following its disaster in 2011.

Within this frame, the LSC Team is dedicated to continue the path of profitable growth and flawless commercial & technical execution focusing on our Clients satisfaction, dedicated to excellence and full EHS compliance.

Our References

Our Clients are situated both in Greece and Cyprus. Customers include the Public Power Corporation S.A. (PPC), Elpedison Power S.A., Protergia S.A., METKA S.A., ADG S.A., Motor Oil Hellas S.A. and the Electricity Authority of Cyprus S.A (EAC).

The LSC provides today to our Customers, operation and maintenance services and consulting by working together with our Clients to optimize their CAPEX and asset management. The 3 main pillars of our offering based on our Product Portfolio are: 1) Gas Turbine Long Term Service Agreements, 2) Plant Business by Servicing the Installed OEM Fleet (Alstom) and other OEM Fleets and 3) Retrofits and Upgrades.

The Local Service Centre in close collaboration with the Alstom Thermal Services Product Lines and Service Network has successfully executed numerous projects within the last years both in Greece and Cyprus. Today, we are continuing in the same path by increasing our operational performance and by adding more complex and demanding projects to our reference list.

Our Projects

Based on the 3 pillars of our core offering, below are some examples of the recent projects executed or under execution:

**GT Long Term Service Agreements**

The LSC manages the 3 Gas Turbine CCPP LTSAs with PPC (6 year Contracts ranging from 10m€ to 50m€).

- **PPC SES Chania, Crete** - 2 x GT8B (in place till 2017)
- **PPC SES Komotini, Northern Greece** - 2 x GT13E2 (under extension)
- **PPC SES Alivery, Euboia** - 1 x GT26 (in place till 2020)

**Plant Business**

We offer services on our Own (OEM) and Other Original Equipment Manufacturers (OOEM) installed fleets, under the complete range of
Alstom in Greece

Thermal Market portfolio i.e. GT, ST, Generators, Boilers, Environmental, BoP, etc. Ongoing key projects include:

- **PPC SES Aliveri 5**: Providing Technical Advisory Services on the Rotating Equipment (GT26, ST & Generator). At the final stages of completion as part of the METKA EPC Contract with PPC
- **PPC HEP Ilarionas (Hydro)**: Providing Technical Advisory Services on the Hydro Equipment. At the final stages of completion as part of the METKA EPC Contract with PPC
- **PPC SES Agios Dimitrios 5**: Executing the ST C-Inspection
- **ELPEDISON Thisvi CCPP**: Executing the ST B-Inspection
- **PROTERGIA Corinth & ADG CCPP**: Executing B & C Inspections on the HRSG (Boilers)

Retrofits, Restorations & Upgrades

- **PPC SES Ptolemais 4**: Executed the Boiler Restoration (2007)
- **PPC SES Kardia 1**: Executed the ESP Controls Upgrade (2012)
- **PPC SES Komotini**: Executed the first ever Generator Stator Rewind at site in Greece (2012)
- **EAC Vasilikos 1-3**: Executed the ST and Generator Restorations (2011-2013)
- **PPC SES Lavron 4 CCPP**: Executing the DCS Upgrade (2013-2014)

Transport

Alstom Transport has been present in Greece for over 30 years and has undertaken significant infrastructure projects such as the construction of the Athens Metro, the Athens Suburban Railway and various signalling and electrification projects around Greece. Alstom’s local team of engineers possesses long experience, strong local know-how and expertise covering a large area of specialization in numerous product lines, which has contributed to the competitive advantage which enables Alstom Transport to provide winning offers to a well-established clientele.

Our Achievements

- Installation of the first ever electronic interlocking system in Greece
- first operation of ERTMS Level 1
- first suburban catenary electrified line in operation
- first ever metro signalling system + Automatic Train Supervision (ATS)
- Alstom ATS system exclusively operating in Athens Metro Lines 2 & 3
- Joint Venture member of the first railway FREIGHT centre in Greece

Our References

Signalling

- **LINES 2 & 3 OF ATHENS METRO** – Automatic Train Supervision (ATS) Signalling and Operation Control Centre completed in time for the 2004 Olympic Games and subsequently for further extensions.
- **ATHENS SUBURBAN RAILWAY**: Study, installation and Testing & Commissioning of signalling in the section Treis Gefyres-SKA-International Athens Airport.
- **NEO IKONIO PROJECT** – Connection of Piraeus Cargo Terminal with Main Rail Network
**References and Ongoing Projects**

- **TX2-TX5 new IXL system**

**Infrastructure:**

- **LINES 2 & L3 OF ATHENS METRO** – Study, supply, installation and Testing & Commissioning of the electromechanical systems for the whole network. As co-pilot of the Olympic Metro Consortium.

- **ATHENS SUBURBAN RAILWAY**: Participated in the construction of the 40km electrified double line network of the Athens Suburban Railway. Alstom, as part of a Joint Venture, undertook the study, installation and T&C of electrification and railway stations of the railway line section Treis Gefyres-SKA-International Athens Airport.

- **ELECTRIFICATION PROJECTS** – In 2007 the state-owned company responsible for railway infrastructure ERGOSE awarded Alstom two electrification contracts for the Ska-Kiato and Inoi-Halkida (Athens Region) Suburban lines worth a total of more than €50 million.

**Rolling Stock**

- **LINES 2 & 3 OF ATHENS METRO** – Alstom as co-pilot of the Olympic Metro Consortium provided a total of 28 trains for the whole network.

**Our on-going projects**

**Signalling & Electrification**

- **ATHENS METRO NEW EXTENSION OF LINES 2&3** – ATS PIS Project / Power Remote Control System (PRCS) Project

- **THRIASSIO FREIGHT CENTER** - Signaling/Electrification/Hi-tech for major freight center in Greece

- **REVAMPING OF ELECTRIFICATION OF RAILWAY LINE SECTION ATHENS-TITHOREA**

- **RAILWAY LINE SECTION TITHOREA-DOMOKOS DOUBLE TRACK ELECTRIFICATION/ SIGNALLING/ATS/ERTMS Level 1 Trackside**

**Infrastructure**

**EXTENSION OF METRO LINE 3 HAIDARI TO PIRAEUS** – Detailed Design, Delivery, Installation, Test& Commissioning of Metro L3 length: 7.55km – 6 passenger stations, 8 ventilation shafts. Alstom member of a Joint Venture.

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**Grid**

Alstom Grid Hellas was created on 12/08/2010 with Alstom’s acquisition of the Transmission activities of Areva T&D. The activities of Alstom Grid Hellas cover a wide range of products and services. **Typical scope covers** Primary/secondary engineering, Supply of HV/MV/LV products, Protection & Control System, Cabling, Installation, Tests & Commissioning, After Sales Service) and optional scope concerns Power Transformers and Civil Works. Alstom Grid Hellas S.A. is responsible for the Grid market in the following countries: Greece, Cyprus, Serbia, Montenegro, Slovenia, Croatia, Bosnia & Herzegovina, FYROM, Albania, Indirect Export

**Our References**

- **AIS 400 kV THISVI SUBSTATION** - Customer: EDISON Hellas - Turn key E/M Project (5 DBB bays) including Digital Control & Protection - In operation since 2010

- **GAS-INSULATED STATION (GIS) IS 400/150 KV ALIVERI SUBSTATION** - Customer: METKA - Turn key E/M Project (7 DBB GIS bays 400 kV type T-155/3 & 15 DBB GIS bays 150 kV type B-105) including Digital Control & Protection - In operation since 2012

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- **GIS 400 KV AGIOS NIKOLAOS SUBSTATION** - Customer: METKA - Turn key E/M Project (4 DBB GIS bays type T-155/3) including Digital Control & Protection - In operation since 2010

- **GIS 150/20 KV FALIRO SUBSTATION** - Customer: Public Power Corporation - Turn key Project (6 DBB GIS bays type B-105) including Civil Works and Digital Control & Protection - In operation since 2004

- **AIS 150/33 KV SUBSTATION & SVC** - Customer: SOVEL - Turn key E/M Project including extension of 150 kV Substation (2 bays) and new SVC consisting of TCR 100 MVA and 100 MVAR Filter circuits (100, 145 & 245 Hz) - In operation since 2001

- **WIND FARM ALEXIGROS** – Cyprus - Customer: KETONIS Developments Ltd - Turn key Project including Civil Works, Outdoor GIS (3 bays type F-35/4) and Digital Control & Protection - In operation since 2011

- **WIND FARM ARACHNAIO** - Aggelokastro Substation - Customer: ROKAS Renewables - Turn key E/M Project - In operation since 2010

- **WIND FARM PANACHAIKO** - Customer: Vestas Hellas - Turn key Project including Civil Works, Overhead Lines and Wind Park internal cable circuits - In operation since 2005

- **FRAME CONTRACT WITH GREEK HTSO FOR MAINTENANCE OF THE EMS** (supplied in the 90’s) - Our customer-oriented team combine their skills to meet every day global energy challenges with sustainable software solutions.

Our ongoing projects

- **AIS 400/230 KV DEIR ALI SUBSTATION, SYRIA** - Customer: METKA - Turn key E/M Project (5 diameters (15 CB’s) 400 kV & 7 DBB bays 230 kV) including Digital Control & Protection (suspended due to Civil War in Syria)