Alstom in Greece

Decades of contribution to Greece

KEY DATA:

- Over **120** Employees
- Leader in electrification & signalling business
- Thermal Power has over 50 years of presence in the Greek electricity market.
- Thermal Services the leading service provider today, covering more than 30% of the installed fleet.
- September 2014 Grid awarded the largest country project for the interconnection of Cyclades islands
Thermal Services

Alstom Thermal Services is the Leading Service Provider in the Thermal Electricity Market having served its Clients in Greece and Cyprus for decades. In 2001 a dedicated Local Service Centre (LSC) was established in Athens, in order to serve the significantly growing Alstom installed base fleet (Gas Turbines, Steam Turbines, Generators, Boilers, and Air Quality Control Systems). Alstom serves its Customers within the complete industrial range, including Public and Independent Power Providers (IPP), Refineries and Co-Generation Industries.

Our Achievements

The LSC has an extensive experience and strong know-how. Already, the LSC has achieved to significantly increase its market share and substantially grow within the last 5 years of economic recession. Key contributors to this result have been the Team-Work, the addition of new Customers and the penetration of OEM Fleets.

For the continuous effort and profitable growth, the LSC Team received in October 2012, the ALSTOM Thermal Services South East Europe “Excellence Team Award” for its dedication and the outstanding performance in terms of growth and execution in excellence. Since October 2014 the Greek LSC Leader has been additionally appointed responsible for the Algerian and Libyan Service markets.

Our References


The LSC provides today to our Customers, operation and maintenance services and consulting by working together with them to optimize their Service expenditure (OPEX-CAPEX) and asset management. The 3 main pillars of our offering 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 2 Gas Turbine CCPP LTSAa with PPC (6 year Contracts ranging from 10m€ to 50m€).
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- PPC SES Chania CCPP, Crete - 2 x GT8B (in place till 2016)
- PPC SES Aliveri 5 CCPP, Evia - 1 x GT26 (in place till 2020)

Plant Business

We offer Services on our own (OEM) and other (OOEM) installed fleets. Mainly GT, ST, Generators, Boilers, and AQCS. We are executing numerous projects every year in the majority of the main power plants situated in Greece and Cyprus. Our Plant business includes supply of Manpower, Spares, Tools, Expertise, Consulting, and Technical support.

Retrofits & Upgrades

During the course of the last decade we have executed, in excellence and with full EHS compliance, the following main Projects:

- PPC SES Kardia 1: Executed the ESP Controls Upgrade (2012)
- PPC SES Komotini CPP: Executed the first ever Generator Stator Rewind at site in Greece (2012)
- EAC Vasilikos 1-3: Executed the ST and Generator Restorations (2011-2013). Reflecting this success in June 2013 an Appreciation Letter from the Electricity Authority of Cyprus was issued, for the exceptional work and result achieved in the course of the restoration of the Vasilikos Power Plant following its disaster in 2011.
- PPC SES Lavrion 4 CCPP: Executed the HMI Upgrade (2014-2015)

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, 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
- 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 2012
- 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 MVAr and 100 MVAr Filter circuits (100, 145 & 245 Hz) - In operation since 2001
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- **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.

Transport

Alstom Transport has been present in Greece for over 30 years and has undertaken significant infrastructure projects such as the construction of Lines 2 & 3 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** – Signalling & Automatic Train Supervision (ATS), Operation Control Centre completed in 2000 and the extensions for the 2004 Olympic Games.
- **Athens Suburban Railway**: Study, installation and Testing & Commissioning of signalling & ERTMS L1 in the section Treis Gefyres-SKA-International Athens Airport.
- **Neo Ikonio Project** – Connection of Piraeus Cargo Terminal with Main Rail Network
- **Thessaloniki area** new IXL system (TX2-TX5)

**Infrastructure:**

- **Lines 2 & L3 of Athens Metro** – Study, supply, installation and Testing & Commissioning of the electromechanical systems for
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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.

**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
- **Railway Line Section Tithorea-Domokos Double Track** (Electrification/ Signalling, ATS)
- **Revamping of Signalling – Athens-Thessaloniki Main Corridor**

**Infrastructure**