Alstom in Algeria

More than 60 years’ contribution to development of the country’s infrastructures

Alstom’s presence

- Alstom Algérie Spa
- World Excellence Centre (Automation)
- Maghreb/Africa Excellence Centre (Maintenance)
- Competence Centre (Engineering and Turnkey projects)
- Corporate HQ
- Power
- Transport
- Grid
- JV

KEY DATA

- 800 employees
- 1 Joint Venture
- 2 World or Regional excellence centres
- 1 Competence centre
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History

1948: First project. Construction of two 52 MW subcritical coal-fired plants for EGA- Bone 1&2 and Oran 1&2.
2001: Creation of Alstom Algérie Spa
2006: Creation of Alstom Grid World Excellence Centre (Automation starts)
2008: Creation of Alstom Grid Competence Centre (Engineering and high voltage station turnkey project management)
2011: Creation of CITAL, first joint venture for the maintenance and assembly of tramways
2012: Creation of Alstom Power Maghreb and Africa Excellence Centre (power plant maintenance)

Partnerships

Transport :
- CITAL : Tramway assembly line and maintenance – Annaba : Shareholders
  Algerian state companies : FERROVIAL (41%) and Entreprise Metro d’Alger (10%)
  Alstom Group : Alstom Tranport France SA (43%) and Alstom Algérie SPA (6%).

Corporate Social Responsibility

- Support to the INJAZ association (2012), which aims is to mobilise the private sector to contribute to the emergence of a new generation of Algerian entrepreneurs among students.
- Support to the Atlas Association (2012), which aims to increase the number of Algerian talents benefiting from international excellence schools programmes.
- Board member of newly created ORSE Algeria (2012/2013): “Observatoire de la responsabilité sociétale des Entreprises”, which aims to share and promote CRS actions and practices in the country.

Awards and certifications

- Alstom Group EHS award to Algiers tramway project team (2012)
References and ongoing projects

Alstom is actively contributing for more than six decades to the development of infrastructure in Algeria in the fields of rail transport and power generation.

**Alstom Power**

15% of the electricity produced in Algeria benefits from Alstom’s advanced and eco-friendly technologies. Alstom is strongly supporting the renewable energy plan decided by the Algerian authorities in 2011.

**References**: 
1948: Construction of two 52 MW subcritical coal-fired plants for EGA- Bone 1&2 and Oran 1&2.  
1955: 2 GT12 gas turbines order with SonelGas SPA for a 24 MW simple cycle plant-Santa Cruz I, II  
1962: GT’s order signed with Sonatrach for Arzew combined cycle plant 143 MW  
1970: 2 GT11 Gas turbines order signed for Hassi-Messaoud I,II simple cycle plants with Sonelgaz Alger  
1974: 5 GT9 gas turbines order signed with Sonelgaz Alger for Hassi Messaoud Nord simple cycle plant  
1975: 4 GT9 gas turbines order signed with Sonelgaz Alger for Bab Ezzouar simple cycle plant  
2001: 2 x 100MW pumps for Beni Haroune dams, providing water to 4 millions inhabitants and 40 000 ha of land under cultivation  
2003: 2 groups of turbo-alternateurs with NOx/Co2 gas turbine, air cooled alternator and 15,75Kv/220K transformer for the F’kirina Power plant (292MW).  
2007: 3 x GT13E2 gas turbines for the Relizane power plant (465 MW)  
2007: Refurbishment of 2 units of Marsat power plant (340 MW)  
2008: Securisation of Sonatrach Amont site

**Ongoing projects**: 
Terga combined cycle power plant (1200 MW) with x GT26 turbines. Contract maintenance for 20 years.

**Alstom Grid**

Alstom Grid started operation in 1976 and has delivered more than 252 bays of 60kV, 97 bays of 220kV, 39 bays of 400kV, as well as several transformers from 10kV to 400 kV and AIS/GIS technologies. Alstom Grid is continuously delivering products to support the €20 bn development programme decided by Sonelgaz.

**References**: 
2002: Regional dispatching centre for Oran, including the supply of a SCADA to manage 43 medium voltage substations.
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2003: Hassi Ameur substations 400/220KV GIS which reinforced the electricity network in Western Algeria

2003: SCADA « 7 PCG » project

2004: Substations for El Aouinet (220kV AIS & 90kV GIS) and Ramdan Djamel (60kV GIS)

2007: Substation of Sidi Ali Boussidi 400/220kV AIS – 3 x 300MVA to support interconnection between Algeria and Morocco for 400 kV network, as part of the Euro-Mediterranean Loop

2008: Substation MTM 220kV for Mostaganem desalination plant

2009: Exit substation of TERGA & KOUDIET DRAOUECH power plants (400kV GIS)

2009: Substation of Méramaâne 60/30 kV – 2 x 40MVA AIS

2009: Substations of Kais & Lakhda 60/30kV – 2 x 40MVA AIS

2010: Substation of Zribet Hamed 220/60kV – 2 x 80MVA & Zribet Hamed 60/30kV – 2 x 40MVA AIS

Ongoing projects:

Project « Algiers loop », study for the supply and the assembly of a high voltage substation (200/60 KV) in armoured technology (GIS)

Alstom Transport

Alstom Transport is contributing to the ambitious tramway programme, decided by the EMA (Entreprise du Metro d’Alger), which will mark the return, after 50 years, of this eco-friendly urban mobility solution.

References:

2004: EBA (Electrification de la Banlieue d’Alger) Electrification of 3 railway tracks with 350 km of catenaries and 3 substations (25kV) for SNTF.

2011: CITAL, Joint venture between EMA, Ferrovial and Alstom established for the assembly and maintenance of tramways

2011: Start of Algiers Tramway operation (1st part)

2012: Start of Algier Tramway operation (2nd part)

Ongoing projects:

Algiers Tramway (3rd part): The total turnkey project include 23 km of tracks, 38 stations and 41 Citadis tramways

Oran Tramway: Civil work for 18 km of tracks, 32 stations and 30 Citadis tramways

Constantine Tramway: Civil work for 8 km of tracks, 11 stations and 27 Citadis tramways