Alstom in Turkey

60 years of contribution to energy and transport infrastructure development in Turkey

Alstom’s Presence

- Middle East & Africa Head Office, Turkey Project Management Office, Istanbul Sales Office
- Southern Europe & Central Asia Head Office, Istanbul Sales Office
- Power Head Office
- Power Transformers Factory in Gebze
- Hydro & Thermal Service Units
- Ankara Sales Office
- Turnkey Systems Head Office, Ankara Sales Office

KEY DATA
- Approximately 1,200 employees
- 54,000 sqm (covered area) Alstom Grid Power Transformers Manufacturing Facility in Gebze
- 5 sales offices

Alstom “Turkey”, October 2013
power-tr@alstom.com
grid-tr@alstom.com
transport-tr@alstom.com
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History

50's : Local subsidiary, Alstom Turkey, established in Istanbul and Ankara (HQ for Turkey)
1955: Delivery of 30 Electrical Multiple Units – E8000 – some of them are still in operation.
1956: Commissioning of hydro turbines of the Seyhan power plant
1966: Creation of Transformer Factory
1985: Built the 1,185 MW Trakya (Hamitabat) CCPP power plant
1992: Commissioned hydro generators for the 2,400 MW Atatürk Dam - the biggest hydro power plant of Turkey and Europe
2006: Commissioned CAN Lignite-fired Power Plant (2x160 MW, turnkey)
2010: Creation of Alstom Grid, making the total number of employees in Turkey over 1,200

- Manufactured the World’s Largest Arc Furnace Transformer (300 MVA)
- Creation of the Power Transformers Repair Factory

2012: First Wind project with Guris for the Senkoy wind farm (27 MW, 9 x 3 MW ECO 100 turbines)

Awards & Certification

Awards

- Alstom was chosen as the star of export in the 1st place in the category of “Electricity Generation and Distribution Equipment” in the “Prize Ceremony for Stars of Export 2012” organized by Istanbul Unions of Mineral and Metal Exporters (IMMIB).
- Alstom Grid has claimed the first prize at Turkey’s Export Champions 2012 in the category of “Electrical Generation and Distribution Equipment”, Istanbul Union of Electricity-Electronics, Machinery and IT Exporters (TET), working under Turkish Exporters Assembly (TIM), organized a ceremony and presented the award.

Certificates

- Grid - Certified by ISO 9001 Quality, ISO 14001 Environment
- Grid - Laboratory accredited ISO 17025 and OHSAS 18001 Occupational Health and Safety
Alstom Power

Alstom Power is a key player of the power sector in Turkey. Group has supplied key equipment for more than 50% of Turkey's installed power generation capacity (61 GW). Alstom Power is the leading hydropower equipment provider with around 50% share in the country's hydro generator market.

Alstom Power’s main references

Gas:
- HEAS / TRAKYA (HAMITABAT), Combined Cycle Power Plant (1185 MW), turnkey - 1985
- UNIMAR / MARMARA EREGLISI Combined Cycle Power Plant (480 MW), turnkey - 1999
- ENKA Combined Cycle Power Plant (5 x 281 MW), ST/G sets - 2003
- PETKIM / ALIAGA Cogeneration Power Plant (226 MW), ST/G sets and GT/G - 1977 and 2009

Coal / Lignite:
- EUAS / AFSIN ELBISTAN A, Lignite-fired Power Plant (4 x 344 MW), ST/G sets - 1984
- EUAS / CAN, Lignite-fired Power Plant (2 x 160 MW), turnkey - 2006

Hydro:
- DSI / KEBAN A Hydro Electric Power Plant (4 x 157.5 MW) - 1974, KEBAN B Hydro Electric Power Plant (4 x 175 MW) - 1982
- DSI / KARAKAYA Hydro Electric Power Plant (6 x 300 MW) - 1987
- DSI / ATATURK Hydro Electric Power Plant (8 x 300 MW) - 1992
- BILGIN ENERJI & LIMAK / SEYRANTEPE Hydro Electric Power Plant (2 x 26 MW) - 2008
- SANKO / CEVIZLIK Hydro Electric Power Plant (2 x 50 MW) - 2010
- SANKO / YEDIGOZE Hydro Electric Power Plant (2 x 160 MW) - 2011
- ENERJISA / MENGE Hydro Electric Power Plant (3 x 62 MW) - 2011
- ENERJISA / KÖPRÜ Hydro Electric Power Plant (2 x 75 MW) - 2013
- DSI / DERINER Hydro Electric Power Plant (4 x 167.5 MW) - 2013

Wind:
- GURIS / SENKOY Wind Farm (27 MW, 9 x 3 MW ECO 100 Turbines ➔ First wind turbine contract of Alstom Power in Turkey

Alstom Power's on-going main projects:
- ENERJISA / ARKUN Hydro Electric Power Plant (3 x 76.6 MW)
- DOGUS / ARTVIN Hydro Electric Power Plant (2 x 170 MW)
- ANADOLU GROUP / PARAVANI Hydro Electric Power Plant (2 x 45.4 MW)
- KALEHAN ENERJİ / BEYHAN -1 Hydro Electric Power Plant (3 x 186 MW + 1 x 32 MW)
- KALEHAN ENERJİ / UPPER KALEKOY Hydro Electric Power Plant (3 x 201.8 MW +1 x 30.64 MW)
- ENERJISA / ALPASLAN II Hydro Electric Power Plant (2 x 115 MW + 2 x 31 MW)
- SANKO / TEPEKİSLA Hydro Electric Power Plant (2 x 34 MW + 1 x 4 MW)
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Alstom Transport

Alstom Transport has started its activities in 1950s in Turkey and has strongly contributed to urban mobility in Istanbul through delivering metro cars, electromechanical works, electrical multiple units (EMU) and locomotives for the Turkish State Railways (TCDD). Alstom Transport Turkey has become the centre of MEA Region (Middle East & Africa) in 2012.

Alstom Transport’s main references:

- IBB / “Taksim-4.Levent” (M2) metro line, infrastructure, electrification, signalling and communication equipment, rolling stock - 2000
- TCDD / 30 EMU type E8000 - 1955 ➔ 14 still in service
- TCDD / 18 Electrical Locomotives types E4000 and E40000 - 1955 and 1969 ➔ First Electrical Locomotives in Turkey
- TCDD / 418 DMU (Diesel-Electric Locomotives) type CoCo - 1970 ➔ 226 still in operation
- TCDD / 75 EMU type E14000 - 1979
- TCDD / 30 DMU - 1991

Alstom Transport’s on-going main projects:

- IBB / “Bağcılar- Kirazlı-İkitelli-Olimpiyat Village” metro line, 80 metro vehicles
- İstanbul Ulasiım San. ve Tic. A.Ş. / “Kabataş-Zeytinburnu-Bağcılar” line, 37 tramway vehicles and training simulator
- TCDD / “Eskişehir-Balıkesir” line, signalling and telecommunication systems
- TCDD / 2 years maintenance services for 12 High Speed Trains -operate between “Ankara-Eskişehir” and “Ankara-Konya”
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Alstom Grid

Alstom Grid has been manufacturing in Gebze since 1966 and has one of the most modern high voltage transformer factories in the world. With its first-in-class facilities and engineers, Alstom Grid Turkey is recognised as a preferred supplier in the field of power transmission, not only within the country, but all over the world and exports 85% of its production to countries worldwide. Alstom Grid Turkey has become the centre of SECA Region (Southern Europe and Central Asia) in 2011, from Portugal to Kirgizstan 26 region countries are managed by Alstom Grid Turkey.

Alstom Grid’s main references:

- TEIAS / UMRANIYE (154 kV), ALTINTEPE (154 kV), YENIKAPI (154 kV), YENIBOSNA (380 kV) turnkey Gas-Insulated Substations (GIS) - 2006-2011
- BILGIN ENERJI / BARES Wind Farm, 154 kV turnkey Air-Insulated Substation (AIS) - 2006
- TOSYALI / TOSYALI STEEL, 380 kV turnkey AIS substation - 2009
- YOLBULAN / YOLBULAN BASTUG STEEL, 380 kV turnkey AIS substation - 2010
- EREN HOLDING / ZETES Zonguldak Thermal Power Plant , 380 kV turnkey GIS substation - 2010 ➔ first 380 kV GIS substation in private sector
- MMK – ATAKAS / 300 MVA electric arc furnace transformer - 2010 ➔ The largest special transformer in the world manufactured to date
- TEIAS / VAN AIS, 380 kV turnkey AIS substation - 2012
- EUAS / AMBARLI Thermal Power Plant, 380 kV turnkey AIS substation - 2012
- FERNAS / GARZAN Hydro Electric Power Plant, 154 kV turnkey AIS substation - 2012
- ENERJISA / KANDIL, HACININOGLU, SARIGUZEL Hydro Electric Power Plants , 3 x 154 kV turnkey AIS substations - 2013
- ENERJISA / TUFANBEYLİ Thermal Power Plant, 380 kV turnkey AIS substation - 2013
- IZDEMİR ENERJİ / IZDEMİR Thermal Power Plant, 380 kV turnkey GIS substation - 2013

Alstom Grid on-going main projects:

- HABAS / HABAS GIS, 154 kV turnkey GIS substations
- ELTEM / ITM 73 GAZİEMİR GIS, 154 kV turnkey GIS substations
- SILOPI ELK. / SILOPİ AIS, 380 & 154 kV turnkey AIS substation
- BEREKET ENERJİ / KOZAN AIS 380 &154 kV turnkey AIS substation
- TEIAS / ITM 89 CİGDEM GIS, 154 kV turnkey GIS substations
- TRAKYA DOKUM / 154 kV turnkey AIS substation
- DORUK ENERJİ / DORUK Hydro Electric Power Plant, 154 kV turnkey AIS substation
- ALBE ENERJİ / YALNIZARDIC Hydro Electric Power Plant, 154 kV turnkey AIS substation