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
- Turkey Head Office
- Turnkey Systems Head Office, Ankara Sales Office
- Hydro & Thermal Service Units
- Ankara Sales Office
- Corporate HQ
- Power
- Transport
- Grid

KEY DATA
- Approximately 1,200 employees
- 54,000 sqm (covered area) Alstom Grid Power Transformers Manufacturing Facility in Gebze
- Sales offices in Istanbul and Ankara
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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 (36 MW, 12 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 “Transformers, Inductors” in the “Prize Ceremony for Stars of Export 2013” organized by Istanbul Unions of Mineral and Metal Exporters (IMMIB). (This category has been awarded for three years by IMMIB, and Alstom has been “Stars of Export” in its respective category since the beginning.)
- 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
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Alstom Power

Alstom Power is a key player of the power sector in Turkey. Group has supplied key equipment for more than 25% of Turkey's installed power generation capacity (69 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 EREGLIAS 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, 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 / YEDIGÖZE Hydro Electric Power Plant (2 x 160 MW) - 2011
- ENERJISA / MENGİ Hydro Electric Power Plant (3 x 62 MW) - 2011 and KÖPRÜ Hydro Electric Power Plant (2 x 75 MW) - 2013
- DSI / DERİNER Hydro Electric Power Plant (4 x 167.5 MW) - 2013
- ENERJISA / ARKUN Hydro Electric Power Plant (3 x 76.6 MW) - 2014
- ANADOLU GROUP / PARAVANI Hydro Electric Power Plant (2 x 45.4 MW) - 2014

Wind:
- GURIS / SENKOY Wind Farm (36 MW, 9 x 3 MW ECO 100 Turbines - 3 x 3 MW ECO 110 Turbines) - 2013

Alstom Power's on-going main projects:
- DOGUS / ARTVIN Hydro Electric Power Plant (2 x 170 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)
- PETKİM / PETKİM Wind Farm (51 MW, 17 x 3 MW ECO 110 Turbines)
- CENAL / KARABİGA Lignite-fired Power Plant (2 x 660 MW), Boiler, Turbine and Generator Sets
- ACWA POWER - SCT / KIRIKKALE Combined Cycle Power Plant (950 MW), Gas Turbines, HRSGs, Steam Turbine and all Generator Sets
Alstom in Turkey
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Alstom Transport

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

Alstom Transport’s main references:

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

Alstom Transport’s on-going main projects:

- IBB (Istanbul Metropolitan Municipality) / “Bağcılar- Kirazlı-İkitelli-Olimpiyat Village” metro line, 80 metro vehicles
- IUAS (İstanbul Ulasiş San. ve Tic. A.Ş.) / “Kabataş-Zeytinburnu-Bağcılar ” line, 37 tramway vehicles and training simulator
- TCDD (Turkish State Railways) / “Eskişehir-Balikesir” line, signalling and telecommunication systems
- TCDD (Turkish State Railways) / Maintenance services for 12 High Speed Train Sets
Having started the activities in the country in 1966, Alstom Grid Turkey supplies about 50% of the installed power transmission of Turkey with the high voltage products and turnkey delivery systems provided. The company has Gebze Power Transformers Factory, which is one of the largest factories in this field in the world, and it is a company that is preferred not only in our country, but also all over the world with over 1,000 employees, specialized engineering staff and its capacity to execute turnkey delivery transmission projects.

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 ENERJİ / 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
- ENERJİSA / KANDIL, HACININOGLU, SARIGUZEL Hydro Electric Power Plants, 3 x 154 kW turnkey AIS substations - 2013
- ENERJİSA / TUFANBEYLI Thermal Power Plant, 380 kV turnkey AIS substation - 2013
- İZDEMİR ENERJİ / İZDEMİR Thermal Power Plant, 380 kV turnkey GIS substation – 2013
- SILOPIELK. / SILOPİ AIS, 380 & 154 kV turnkey AIS substation - 2013
- BEREKET ENERJİ / KOZAN AIS 380 &154 kV turnkey AIS substation - 2014
- HABAS / HABAS GIS, 154 kV turnkey GIS substations - 2014
- ALBE ENERJİ / YALNIZARDIC Hydro Electric Power Plant, 154 kV turnkey AIS substation - 2014

Alstom Grid on-going main projects:

- TEIAS / ITM 89 CİGDEM GIS, 154 kV turnkey GIS substations
- EREN ENERJİ / ZETES-3 Thermal Power Plant, 380 kV turnkey GIS substation
- GAMA ENERJİ / KIRIKKALE Combined Cycle Power Plant, 380 kV turnkey GIS substation
- TEIAS / ITM 129 USAK, 154 kV turnkey AIS substations
- TEIAS / ITM 124 ERENKOY GIS, 154 kV turnkey GIS substations
- KAYALI ENERJİ / OSMANIYE Combined Cycle Power Plant 154 KV turnkey AIS substation