Alstom in Romania

Over 40 years of contribution to Romania

Alstom’s Presence

Key Data
4 legal entities:
- Alstom Infrastructure Romania (AIRO) 1,065 people FTE: 160 for AIRO
- Alstom General Turbo (AGT) 166 for AGT
- Alstom Transport (ATRO) 713 for ATRO
- Alstom Grid Romania (AGRO) 26 for AGRO

Alstom headquarters for Romania, Bulgaria and Moldavia

AGT: thermal power sector: turbo generator components up to 1300 MW; hydro generator components up to 250 MW; rotor coils between 10 and 1500 MW including for nuclear power plants; 24 KV Stator bars; rotor modernisation including winding and balancing; stator modernisation including winding; field service provider with high qualified specialists

AIRO: Environmental Control Systems (ECS) - thermal power
Rovinari 3, 4 & 6 desulfurization equipment; Craiova II Units 1 & 2 desulfurization equipment; technical support for ECS worldwide; Hub for Eastern Europe for Power and Industry market (design, planning, execution)

AIRO: Local Service Center (LSC) - thermal power
On-site maintenance, overhauls, erection, modernisation and commissioning of steam turbines, boilers, generators and their auxiliaries; Strong field service organization providing services abroad and in the country, including in the nuclear field

AGRO: Modernization and rehabilitation of a large number of substations in Romania and abroad; connection of wind parks to the grid; automation for Romania & Balkans area

Network Management Solutions (NMS):
Design of computer systems (smart grids technology); customers: key actors in the energy market in Europe, Africa and Middle East
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History

1968: Romania acquires the Rateau-Schneider turbine license and the Alstom 330 MW generator license
1968-1989: Romania installs over 5,000 MW for which Alstom is the OEM
1994: Setting up of the joint venture GEC Alsthom Faur Transport: 80% GEC Alsthom France, 13% Faur S.A. and 7% SIF Muntenia
1996: Creation of the joint venture GEC Alsthom General Turbo - 51% GEC Alsthom & 49% General Turbo.
1999: Change of company name from GEC Alsthom Faur Transport to S.C. Alstom Transport SA
1999: Change of company name from GEC Alsthom General Turbo to Alstom General Turbo SA
2000: Establishment of Alstom Power Romania SRL (APRO); 100% owned by Alstom
2004: Establishment of Areva T&D SA France – Bucharest Branch
2007: Creation of Environmental Control Systems hub – under the legal entity of Alstom Power Romania SRL
2008: Establishment of Areva T&D Romania SRL
2009: Alstom Power Romania - creation of the Local Service Center (LSC) including a field service organization for worldwide activities
2010: Alstom Power Romania SRL becomes Alstom Infrastructure Romania SRL
2010: Creation of Alstom Grid Romania SRL
2011: Opening of Network Management Solutions (NMS) office in Bucharest

Partnerships

1994: Setting up of the joint venture GEC Alsthom Faur Transport

Corporate Social Responsibility

Lake Ecologization and Environmental Education project - in cooperation with Alstom Foundation (2010-2011)

Since 2008, Alstom Transport Romania has started a comprehensive investment program regarding the environmental protection, on the following components: waste, chemicals, soil and waste water.

Alstom Transport concludes annual conventions with the Polytechnic Institute of Bucharest - Transport Faculty, to facilitate the student's practice in the depots and factory.
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Awards and Certification

**Power:**
- The President's award for safety – Bronze award (2005) – EHS
- The President's award for safety – Bronze award 2006 – EHS
- The President's award for safety – Silver award (2006) – EHS
- The President's award for safety – Silver award 2007 – EHS
- The President's award for safety – Gold award (2007) – EHS
- ISO4001 for Environment – EHS
- OHSAS 18001 - SSM for Workshop – EHS
- GEMS Certificate – EHS
- IQNet and SRAC certificate ISO 9001: 2008 - Quality Management System
- ISO 9001: 2013 multi-site certificate (ECS)

**Transport:**
- AFNOR certificate ISO 9001:2008 for the management system
- AFER (Romanian Railway Authority) certificate SR EN ISO 9001:2008

**Grid:**
- ISO 9001, ISO 14001, ANRE E1, ANRE A1
## Alstom in Romania

### References and Ongoing Projects

#### Power

**References:**

1998: Turceni power plant, Units 4 and 5 modernization (2 x 330 MW), 350 M DEM, KfW financing – completion in 2004-2005  
1999: Bucharest South power plant, Units 3 and 4 modernization (2 x 100 MW), 46 M USD, EIB financing – completion in 2005  
2000: Braila power plant, Unit 1 modernization (1 x 210 MW- Russian unit), 60 M EUR, EBRD financing – completion in 2005  
2001: Deva power plant, Unit 3 modernization (turbine + generator) (1 x 210 MW- Russian unit ), 67 M EUR, World Bank financing – completion in 2004  
2007: The first FGD contract in Romania – Rovinari power plant, Units 3 and 6 (2 x 330 MW), 93 M EUR

**Ongoing projects:**

2011: Craiova II power plant, Units 1 and 2 FGD  
2012: Rovinari power plant, Unit 4 FGD

#### Transport

**References:**

2004: Alstom Transport receives a 15 year contract with Metrorex for the Bucharest metro maintenance. Through this contract, Alstom Transport takes over from Metrorex three depots and a factory repair, together with their staff.  
2008: Signing of a contract for the 12 TPS modernization. The contract came into force in April 2009. The first modernized substation will be delivered early 2011.  
2008: Alstom Transport receives a contract regarding the installation of an ERTMS signalling system on a locomotive, for CFR S.A.

**Ongoing projects:**

2004: Bucharest metro maintenance - contract signed with Metrorex in 2004, with a duration of 15 years  
2012: km614-Curtici - electrification, signalling, ERTMS level 2, GSM-R  
2012: Coslariu-Micasasa - electrification, power supply, telecom  
2013: Simeria-Vintu de Jos - electrification, telecom, passenger information system
Grid

**References:**

2005: Modernization of Control and Protection Systems in 11 S/s; Transelectrica  
2005: Rehabilitation of 400/220/110 kV Sibiu Sud S/s Transelectrica; developed in consortium with ABB  
2006: Transfer from 220 kV to 400 kV of Moldova Axis (3 pcs. S/s); Transelectrica  
2008: Rehabilitation 400/110 kV Lacu Sarat, Transelectrica  
2008: Rehabilitation 220/110 kV Baia Mare III, Transelectrica  
2009: Rehabilitation 110 kV GIS Brazi Vest, Transelectrica  
2009: Rehabilitation of 110 kV Brazi Vest S/s Transelectrica  
2009: Rehabilitation 20 kV Targoviste, Transelectrica

**Ongoing projects:**

2009: Extension 110 kV Renault Dacia  
2013: Tulcea Vest 400 kV substation rehabilitation  
2013: Manastur 110/20/10 kV substation rehabilitation