Alstom's Presence in Finland

Key data

- around 400 employees in Finland
- Alstom is specialized in the following areas of activity in Finland: Thermal Services and Wind (Power), Reactive Power Compensation & FACTS solutions (Grid) and Transport.
## History of Alstom in Finland

1931  Suomen Puhallintehdas Oy is established in Helsinki (Power)
1957  Suomen Kaapelitehdas Oy is established in Helsinki (Grid)
1967  Suomen Kaapelitehdas is merged with Nokia (Grid)
1968  Suomen Kaapelitehdas moves to Tampere (Grid)
1974  Suomen Puhallintehdas changes name to Fläkt (Power)
1988  Asea Brown Boveri acquires Fläkt (Power)
1990  Suomen Kaapelitehdas changes name to Nokian Kondensaattorit Oy (Grid)
1994  Nokian Kondensaattorit becomes part of Schneider Group (Grid)
1999  Alstom acquires half of ABB’s Power-business (Power)
2000  ALSTOM acquires the Power-business totally, new name ALSTOM Finland Oy (Power)
2000  Nokian Kondensaattorit becomes a private domestic company Nokian Capacitors Oy (Grid)
2005  Nokian Capacitors opens the new air-core reactor factory (Grid)
2008  AREVA T&D acquires Nokian Capacitors, new name AREVA T&D Oy (Grid)
2010  Alstom acquires AREVA T&D Oy, which becomes ALSTOM Grid Oy (Grid)

## Corporate Social Responsibility

Alstom commits to providing market leading power and transport products, systems and services to communities across the globe in a responsible and sustainable way. Our collaborative spirit, passion for excellence, and our innovative approach allows us to offer solutions which help overcome some of the world’s greatest challenges.

Whether we’re limiting the impact our activities have on the environment, promoting sustainable development for all stakeholders and partners, or improving the lives of those who come into direct contact with Alstom, we take our corporate and social responsibilities very seriously. People, sustainability, and the environment are at the heart of all of our decisions. The decisions we make today will define tomorrow. Alstom is shaping the future.
Certification

**Alstom Grid has the following certificates:**

1) Quality system meets the requirements of the ISO 9001 standard.
2) The environmental management system is certified according to the ISO 14001 standard.
3) The occupational health and safety management system is certified according to the OHSAS 18001 standard.

**Alstom Power has the following certificates:**

1) Quality system meets the requirements of the ISO 9001
2) The environmental management system is certified according to the ISO 14001 standard.
3) The occupational health and safety management system is certified according to the standard OHSAS 18001
4) Alstom Power complies with the requirements of the standard ISO 3834-2
5) Thermal Services business unit is certified according to the standard EN1090-2.

Power

**Key references**

- Teollisuuden Voima Oyj, Olkiluoto 1 & 2 Nuclear Power Plant units: LP steam turbines & generator refurbishments, each unit 880 MW
- Long Term Service Agreement at Olkiluoto 1 & 2 for the turbines and generators
- Raahe : BF2 Iron & Steel Fabric Filter
- Several Electrostatic precipitator projects at the Finnish pulp and paper plants
- TuuliMuukko Oy, 21 MW wind farm in Lappeenranta; 7 x 3 MW ECO 110 wind turbines including operation and maintenance service for 12 years

**Ongoing projects**

- Vartinoja 1 Ky wind farm, 24 MW, located in Siikajoki, Northern Finland (9 x 2,7 MW ECO 122 wind turbines including operation and maintenance service for 12 years).
- Several ELPAC electrostatic precipitator projects in Finland

Alstom Finland, April 2015

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Alstom in Finland

Transport

Key references

- 18 high-speed Pendolino trains delivered between 1995-2006
- 30 Coradia suburban trains in the metropolitan area delivered between 1999-2005
- 4 Allegro high-speed Pendolino trains for Helsinki (Finland) and St. Petersburg (Russia) since 2010

Grid

Exports account for 95% of the output of Alstom Grid units in Tampere focusing on reactive power compensation and FACTS projects worldwide.

Key references

- Kemira DC rectifiers
- Utility Static VAr Compensator -200...+240 MVar 400kV, Kangasala substation, Finland
- Fixed Series Capacitor bank 2 x 660Mvar 735kV, Quebec, Canada
- SVC MaxSine™ STATCOM -/-8Mvar, windfarm application, Borkum, Germany
- Utility Static VAr Compensator +170...-50Mvar, Saudi Arabia
- Utility Static VAr Compensator +/-250Mvar 225kV, France
- MV Enclosed capacitor banks MVD4/4x1.0-6-50/189-7622, Finland
- HV Capacitor banks 30Mvar 120kV, Finland
- Gas Insulated Substation GIS F35 145kV, Finland

Partnerships

In Finland Alstom has developed several technological partnerships with local universities, test laboratories and technology research centres: Tampere University of Technology (TUT) and Aalto University, School of Engineering.

In 2013 Alstom signed a two-year R&D cooperation agreement with Lappeenranta University of Technology (LUT) to further develop wind turbine’s performance in arctic climate conditions.

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