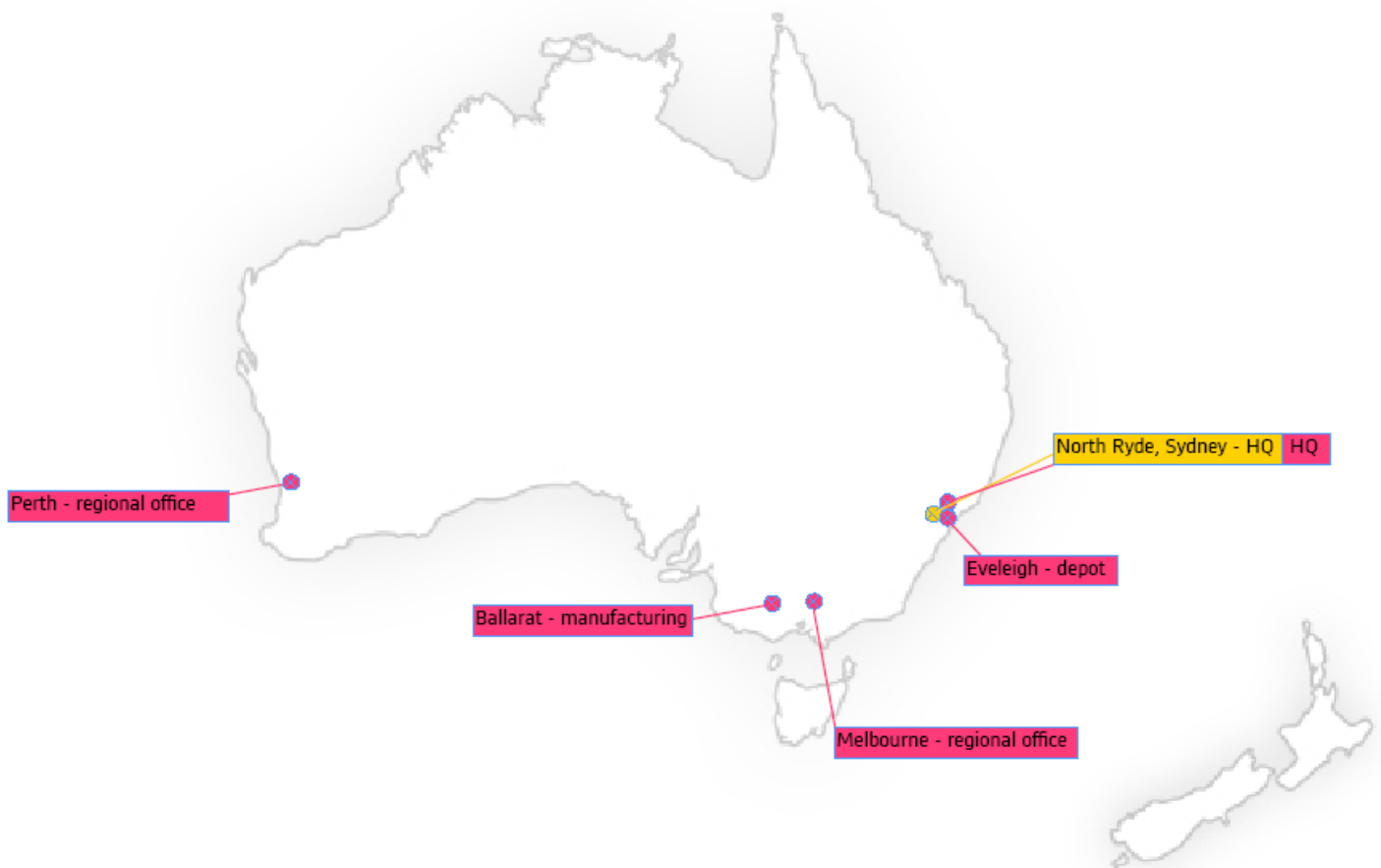


## Alstom in Australia & New Zealand

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### Alstom's Presence



#### Key Data:

- 200 employees at 5 sites
- Offices in Sydney, Melbourne, Brisbane & Perth
- Manufacturing and workshop facilities in Ballarat

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### History

**1890:** Babcock and Wilcox begin operations.

**1894:** BTH begin operations.

**1928:** BTH becomes part of AEI.

**1967:** Consolidation of EECo and AEI: GEC is born.

**1979:** Babcock & Wilcox became Babcock Australia.

**1988:** GEC merges with Alsthom to form GEC Alsthom.

**1988:** BBC Power and ASEA Power fuse into ABB Power Generation.

**1991:** Flakt Australia becomes ABB Flakt Australia.

**1991:** New power workshop opened in Maitland.

**1992:** ABB Power Plant was created after the merger of ABB Power Generation, ABB Flakt Australia and Babcock Australia.

**1994:** GEC Alsthom changed its name into Alstom Energy and ABB Power Plants became ABB Power Generation.

**1999:** ABB Power Generation and Alstom Energy merged into ABB Alstom Power.

**2000:** ABB Alstom Power becomes ALSTOM.

**2003:** Sigma Energy Solutions acquired by Alstom.

**2004:** Alstom sells its Transmission and Distribution business to Areva.

**2006:** Maintenance Systems Consolidated becomes part of Alstom.

**2007:** Alstom sets a new world rail speed record of 574.8 km/h.

**2008:** Alstom unveils the AGV – the next generation of very high speed trains. Its first customer is the private Italian operator NTV.

**2010:** Alstom and Schneider Electric acquire Areva T&D, the Transmission and Distribution unit sold by Alstom to Areva in 2004.

**2010:** Alstom re-acquires the Transmission business and creates a third sector: Alstom Grid.

**2010:** New power workshop opened in Morwell.

**2010:** Sigma Energy Solutions & Maintenance Systems Consolidated are rebranded as Alstom companies.

**2011:** Alstom reshapes its operational activities into four sectors: Thermal Power, Renewable Power, Grid and Transport.

**2011:** New power workshop built in Cambridge, Tasmania to replace existing Moonah workshop.

**2014:** Alstom Shareholders Meeting authorises the sale of the Alstom Energy businesses to General Electric

**2015:** Alstom finalises the sales of its energy activities and is entirely focused on Transport

### Partnerships

- **Australian Industry Group (AiG):** AiG is a leading industry association in Australia, representing the interests of approximately 60,000 businesses
- **Carbon Market Institute:** Assists Australian businesses in meeting challenges and opportunities associated with national and international carbon markets.
- **Infrastructure Partnerships Australia:** Alstom is an associate member of Australia's flagship infrastructure association.

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### References

Throughout Australia, Alstom has established key references for Light Rail, Metro Trains and Signalling technology. Our activity today focuses on rolling stock in Victoria for both Metro and Trams and Signalling systems in New South Wales.

#### Key References:

##### Sydney CBD and South East Light Rail project

- 30 coupled low floor X05 Citadis light rail vehicles
- 2 kilometre APS wire free technology

##### Sydney Metro/North West

- 22 six-car fully automated Metropolis train sets and CBTC signalling system.
- Australia's largest public transport infrastructure project being delivered in Sydney

##### Melbourne Suburban Rolling Stock

- 87 X'Trapolis suburban trains
- 522 cars delivered between 1999 & 2017
- Manufactured in Ballarat, Victoria

##### Citadis trams in Melbourne and Adelaide

- 47 Citadis trams in operation since 2001 and 5 Citadis Bumblebees since 2008 in Melbourne
- 6 Citadis in Adelaide 2009 (on loan from Madrid)
- Ongoing maintenance support

##### European Train Control System (ETCS) signalling system for Sydney's CityRail network

- Contract awarded in January 2011
- The newly equipped trains began service in 2013
- One third of CityRail's network installed with ETCS technology. In total, 160 trains (one third of the network) is fitted with the equipment, covering over 600 kilometres of track. Maintenance contracts will run until 2020

##### Signalling system for Melbourne's regional network

- Contract awarded for Melbourne's Regional Rail Link Package A in 2011
- Digital Train Radio - on 74 suburban X'Trapolis trains since 2002
- Delivery of a new **Smartlock electronic interlocking** system and accompanying **train control system** for Melbourne's rail network – part of the Victorian Government's \$4.8 billion Regional Rail Link project

##### Train Subsystems & Maintenance – all states of Australia & New Zealand

- Ongoing supply and/or maintenance/renovation of traction package and train management systems for EMUs.
- 15-year supply and maintenance of traction, auxiliary power and train management equipment for Sydney's 4GT Millennium trains.
- Contract to supply 175 new bogie frames for Melbourne's Comeng trains by the Public Transport Victoria (2014).
- Modification of Metro Trains Melbourne's 29 Hillside X'Trapolis trains to allow interoperability with the latest generation X'Trapolis trains.

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### Corporate Social Responsibility

#### **Fundraising Activities for Victims of 2011 Queensland and Victorian Floods, 2011**

- In January and February 2011, parts of Australia were hit by the most significant flooding since 1973. The suburb of Rocklea, where Alstom employs 300 people as part of the former Grid Transformer Factory, was one of the worst affected areas.
- Alstom's local business units donated AUD\$41,000 to the Queensland Premier's Relief Fund.

#### **Relief for communities touched by 'Black Saturday Bushfires: Callignee Eco-Friendly Community Hub 2009-2010**

- The Callignee Community Centre is located near to Alstom's Morwell Thermal Services workshop.
- The destruction of the Callignee Community Centre during the 'Black Saturday' bushfires in 2009 had a significant impact on the local community and Alstom's 100 local employees.
- Alstom Foundation contributed by providing funding for solar PV cells, rain water capture, solar thermal heating system, insulation, and an environmentally friendly waste water sand filter.

#### **Alstom Supports the Tassie Devil Appeal 2009 – 2011**

- One of Australia's iconic animals, the Tasmanian Devil, has been adopted by Alstom in partnership with Taronga Zoo. The Tasmanian Devil was declared as endangered in May 2008 due to an infectious cancer, which is killing many devils.

#### **Alstom is a NSW Sustainability Advantage Member 2010 - 2011**

- The Sustainability Advantage Program together with its members, assist organisations to understand sustainability and strengthen their environmental performance. Alstom has improved productivity and increased raw material, energy, water and waste savings.

#### **Alstom is a Zoo Parent for the Taronga Conservation Society Australia 2007 - 2014**

### Certifications

Alstom's quality, safety and environmental management systems have been independently certified to ISO standards.

- AS/NZS ISO 19001:2000 Quality Management System
  - AS/NZS ISO 14001 Environmental Management System
  - AS/NZS ISO 4801 Safety Management System
  - OHSAS 18001 Safety Management System
-



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### Contact Information

**General/product enquiries or requests for quotation**, kindly contact the local office or visit <http://www.alstom.com/worldwide/>

**Careers at Alstom & submission of resumes**, visit <http://www.alstom.com/careers/>

**For media or investor relations contacts, please visit :** <http://www.alstom.com/contact/>