Alstom in Indonesia

Nearly 50 years of strong presence in Indonesia

Alstom’s Presence

**Jakarta**: Alstom Indonesia Headquarters

**Jakarta, West Java**: Alstom Power ESI, Sales & Service Office

**Jakarta**: • PT Alstom Grid • PT UNINDO • Turnkey Solutions & Manufacturing Site

**Surabaya, East Java**: Alstom Power ESI, Manufacturing Site

**Bandung, West Java**: Alstom Transport Signaling

**Corporate HQ**

**Power**

**Transport**

**Grid**

**Key Data**

- PT Alstom Power Energy Systems Indonesia
- PT Alstom Grid
- PT Alstom Transport Indonesia
- PT UNINDO
- 4 sites
- 1,000 employees
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**History**

1966: First Alstom office establishment in Indonesia
1969: Established first JV in Indonesia with PT PLN for transformers
1986: Forming JV in Indonesia with PT PAL and PT Barata for Boiler Manufacturing Facility in Surabaya, East Java
1996: Permanent Boiler manufacturing facility in Surabaya, East Java
2004: Established PT Alstom Transport in Indonesia
2010: Alstom acquired PT Areva T&D (now Alstom Grid) & PT UNINDO

**Partnerships**

Alstom in Indonesia has made strategic partnerships with strong local players to bring in advanced technologies to contribute to the power need in Indonesia.

Alstom and PT PLN in 1969
A JV to manufacture transformers in Indonesia

Alstom and PT PAL and PT Barata Indonesia in 1986
Strategic partnerships in engineering and manufacturing boilers in Indonesia

**Awards and Certification**

**Power:**


**Grid:**

ISO 9001, ISO 14001, OHSAS 18 000
Corporate Social Responsibility

Tsunami Disaster Relief and Health Centre in Aceh
In the immediate aftermath of the Tsunami disaster in Aceh back in 2005, Alstom, together with several main stakeholders including PLN and major broadcasting media provided a relief funding and generator sets to the survivors. After the relief funding, Alstom in cooperation with Medco Energy built a Health Care centre in LhoNga, the worst city in Aceh attacked by Tsunami. Not only has the Health Centre provided the medical care for the people but also in terms of their psychology restoration.

Building an 85 meter suspension bridge for locals in Tadang Palie and Bekke Villages in South Sulawesi:
Alstom Foundation granted €100,000 (approximately Rp 1.5 billion) in 2008 to build 85 m bridge in cooperation with the local community, NGOs and contractors. The bridge was completed in 8 months. The bridge has become an important connection between Tadang Palie and Bekke villages, crossing the Cenranae River. The bridge connects the north and south villages, making it easier for children to go to school and providing shoppers with a safer means to buy their goods, and allowing farmers and traders to access an area that was previously only accessible by boat or a 30 km journey.

Humanitarian Relief for Situ Gintung dam burst in Banten, West Java:
Alstom Foundation granted €25,000 (approximately Rp 325 million) in 2009 to help Situ Gintung dam burst victims for health and sanitary care as well as the scholarships for 18 children.

Preservation of Indonesia Endemic Bamboo Species to save water catchment areas in West Java:
In 2010 Alstom Foundation granted €50,000 (approximately Rp 600 million) to preserve Indonesian Endemic Bamboo Species to save water catchments area. The actions include nursery and plantation of 3,000 endemic bamboos, building 2 bamboo community centres for a better community empowerment and protecting water shed area in two major rivers. The one-year program will take place on the third quarter of 2010/2011 and involved 600 local people in bamboo plantation and training.

Building 15 giant water tanks for poor and remote village in Karangasem, Northern Bali:
In 2011 Alstom Foundation granted €37,500 (approximately Rp 450 million) to build 15 giant water tanks for poor and remote village in Karangasem Village, Northern Bali. While Bali island is wellknown for its natural beauty, rich culture and friendly people, there are still many villages in remote areas suffering from getting natural resources such as water. Collaborating with one of Bali kings, Alstom built 15 water tanks to support at least 90 families for clean water for 6 months.

Thermal Power & Renewable Power

Alstom is the leader in the gas and coal generations in Indonesia, supplying large boilers and gas turbines to the country over the last 20 years and has an established boiler manufacturing facility in East Java.

References:
Over 100 contracts awarded covering engineering, manufacturing, project –management, commissioning and services for projects in Indonesia amongst others:

- Tanjung Priok CCPP in Jakarta - 1,140 MW
- Muara Tawar Block 1&2 CCPP, West Java - 923 MW
- First IPP CCPP project in Sengkang, South Sulawesi as well as its O&M contract - 135 MW
- Supplied Utility Boiler for Paiton 1& 2 - 2x400 MW
- Supplied Utility Boiler for first Steam IPP project in Indonesia Paiton 5,6,7 & 8 - 4x660 MW
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- Ombilin 1 & 2 Steam Coal Power Plant in West Sumatra - 2 x 100 MW
- Bukit Asam 1 & 2 Steam Coal Power Plant in West Sumatra - 2 x 65 MW
- Tarahan 3 & 4, Supplied the first CFB Boiler Plant - 2x100 MW
- Provided Heat Recovery Steam Generators ("HRSG") for Fajar Surya Wisesa Industry for gas project
- Provided HRSG for Indralaya PLN gas project
- Provided HRSG for Tangguh gas plant in Manokwari, Irian Jaya
- Provided HRSG for Cikarang Listrindo Industrial Estate
- Maintenance contract for Paiton Steam Coal Power Plants 5, 6, 7 and 8
- Lahendong, geothermal plant in Manado, South Sulawesi 1x20 MW
- Muara Tawar 5 CCPP, with domestic HRSG, 240 MW
- Provided 2x60 MW HRSGs and Industrial Steam Turbine Generator for Sengkang CCPP Expansion in South Sulawesi

Ongoing projects:
- Long Term Service Agreements ("LTSA") for gas plants: Tanjung Priok, Gilimanuk and Muara Tawar
- Maintenance contracts for steam plants: Paiton 5, 6, 7 & 8
- 2014, Karaha Geothermal EPC contract for Pertamina Geothermal Energy

Recent export projects include:
- 2013 Manufacturing Ultra-supercritical 1000 MW boiler pressure parts package for Malaysia
- 2013 Manufacturing Supercritical 800 MW boiler pressure parts package for Taiwan
- 2013 Supply of larger HRSGs complete for project in the USA and Thailand
- 2012 Supply of larger HRSGs to Singapore and USA.
- 2011-12 Manufacturing of Ultra-supercritical 800 MW boiler pressure parts packages for the Netherlands

Exports projects in general:
- Since 1996 has supplied HRSGs and boiler pressure parts packages to projects in North America, Europe, Middle East, Asia and Australia.

Transport

In the rail sector, Alstom is the leader in signalling and control systems.

References
- 1986: ALSTOM Transport B.V. has it first project in Indonesia to install relay interlocking in Medan Statio
- 1988: Introduction of VPI (Vital Processor Interlocking) for Cikampek – Cirebon Line (135 km)
- 1991: VPI Interlocking for 136 km Cirebon – Pekalongan & 90 km Pekalongan – Semarang
- 1993: Introduction of SSI (Solid State Interlocking) by ALSTOM Transport S.A. (France) for Jabotabek
- 1995: SSI Interlocking for 24 km Padalarang – Gedeage & 57 km Bekasi – Cikampek
- 1995: SSI Interlocking for 20 km Tn Abang – Serpong
- 1996: SSI Interlocking for 20 km Duri – Tangerang
- 1997: SSI Interlocking for 25 km Ps Senen – Kampung Brandan – Tn Abang
- 1999: VPI Interlocking for 90 km Cikampek – Padalarang
- 2002: VPI Interlocking for 54 km Cikampek – Cirebon double-tracking segment 1
- 2005: VPI Interlocking 81 km Cikampek – Cirebon double-tracking segment 3
- 2007: completion of Cikampek – Cirebon double-tracking
- 2009: renaming into PT Alstom Transport
- 2010: Cirebon modification segment III on Java North Line
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**Ongoing Projects:**
- 2010: Cirebon modification segment III on Java North Line

**Grid**

Alstom Grid is the major player in the transmission sector in Indonesia, providing turnkey solutions for substations up to 500kV, automation solutions (for substations, networks: SCADA and telecom) and high voltage products for all projects.

The local activities are managed in two sites / companies.

**PT Alstom Grid**

Turnkey HV substations up to 500kV (GIS, AIS) including:
- Engineering design for Primary and Secondary
- Civil works expertise on design, construction, supervision; and as Regional Competence Centre
- Erection, commissioning of Grid equipment
- 150kV UGC and Service offering
- Project Management for Utility, Industry and EPC (Japanese, Korean and Chinese)
- Automation and protection solutions for substations and networks (DCS, relays, SCADA, telecom) Services

**PT UNINDO**

Specialist in design and manufacturing of power transformers as well as circuit breakers and dis-connector for power generation, networks applications and industrial projects:

- Power transformers, auto-transformers, generator step-up transformers, regulating transformers up to 300 MVA and 275 kV, while 500 kV currently under progress
- Circuit breakers and dis-connectors ranges from 72.5kV to 300 kV

**References:**

Recent turnkey substations contracts, major supply of Power and generator step-up transformers transformers from PT Unindo, as well as major automation and maintenance works in Indonesia include:

- Supply, delivery and installation of 60 sets of 150kV, 70kV power transformers (30 and 60MVA) for PLN under joint procurement
- 150kV substation and distribution for Bekasi Power
- 275/150kV substation in Binjai (Sumatra)
- Supply of generator step-up transformers for Ulubellu 1 & 2 Geothermal power plant
- 275kV switchyard for Sumatra Utara CFPP
- 500/150kV substation in Ujung Berung
- 275kV transformers for Poso energy hydro power plant
- 150kV power plant switchyard for Cirebon coal fired power plant
- 500/150kV substation extension at Cilegon Baru
- 150kV gas and air-insulated substations, underground cables for the transmission and distribution of electricity as part of the 10 GW phase 1 generation program for PLN
- SCADA EMS for Sumatra (3 DCC: Medan, Padang, Palembang)
- 2 new 150kV substations, extension and upgrade of 150kV and 500kV substations under ADB financing (B-4 and B-6)
- 150kV gas-insulated substations for Tanjung Priok gas fired power plant repowering project
- 150kV substation equipment for Muara Karang CCPP
- 500kV GIS for new Paiton CFPFP
- 150kV substation and power evacuation block for Rembang CFPP
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Ongoing projects:
- 150kV substations in 30 locations over Indonesia (Java, Kalimantan, Sumatra)
- 150kV GIS substations in Harapan Indah, Alam Sutra and Pesanggaran
- Maintenance of 500kV GIS in Saguling and Paiton
- Supply of 170MVA generator step-up transformers for Keban Agung CFPP
- 275/150kV substation in Gumawang (South Sumatra)

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